

**PROVINCIAL ADMINISTRATION OF KWAZULU-NATAL  
DEPARTMENT OF PUBLIC WORKS**



**KWAZULU-NATAL PROVINCE**

**PUBLIC WORKS & INFRASTRUCTURE  
REPUBLIC OF SOUTH AFRICA**

**BILLS OF QUANTITIES**

with GCC for Construction Works - Second Edition 2010

**CONTRACTUAL SECTION**

ONE VOLUME APPROACH : **PART A**

**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME  
PHASE 03: ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

**Project Manager**

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**Employer:**

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KZN Department of Public Works &  
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**Project QS**

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**Region:**

Regional Manager  
KZN Department of Public Works & Infrastructure  
X54336  
**Mayville**  
4091  
Tel Number: N/A  
Fax Number: N/A

**Tender Number:** ZNTD 06395 W  
**CIDB Grading:** 4GB or Higher  
**ECDP Number:** N/A

**Project Code:** 065544  
**Document Date:** As Per Tender Advert

**Contracting Party:** \_\_\_\_\_  
**CIDB Registration number:** \_\_\_\_\_  
**Central Suppliers Database Registration Number:** \_\_\_\_\_

**DPWS DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAMME PHASE 03:  
ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**



**KWAZULU-NATAL PROVINCE**  
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## THE TENDER

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## THE CONTRACT

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### IMPORTANT NOTICE TO TENDERERS

Any reference to words Tender or Tenderder herein and/or in any other documentation shall be construed to have the same meaning as the words Tender or Tenderer. These forms are for internal and external use for the KZN Department of Public Works & Infrastructure, Provincial Administration of KwaZulu-Natal.

**"Quality"** shall mean totality of features and characteristics of a product or service that bears on the ability of the product or service to satisfy stated or implied needs.

**No alternativeTenders will be accepted.**

**The Total (Including Value Added Tax) on the Final Summary of the Bill of Quantities must be carried to the "Offer" part only of the Form of Offer and Acceptance - T2.21**

**"Enterprise" shall mean the legal Tendering Entity or Tenderer who, on acceptance of the Offer, would become the contractor"**

**Multiple awards of tenders will be limited (unless by exception, due to circumstances), in order to spread the work amongst a large number of successful tenderers and to minimize the risk to the Department. Multiple awards shall be limited to the ceiling value of the applicable CIDB grading of the recommended tenderer, unless the previous contracts awarded, are more than 60% completed in terms of the actual scope of works of the contract and that the time expended is within the allocated timelines of the contract period of the contract. This is with specific reference to the activities based on the construction programme and concise demonstration has been given that the tenderers has the capability and resources to complete the project successfully.**



**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAMME PHASE 03:  
ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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**THE CONTRACT**



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## **C1 - AGREEMENT AND CONTRACT DATA**



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## **FORM OF OFFER AND ACCEPTANCE**

## FORM OF OFFER AND ACCEPTANCE

Tender No - ZNTD 06395 W



**KWAZULU-NATAL PROVINCE**

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### C.1.1 - FORM OF OFFER AND ACCEPTANCE

THE OFFER AND ACCEPTANCE FORM IS BOUND INTO **SECTION 1** (See end of Returnable Documents) OF THIS DOCUMENT AS PART OF THE RETURNABLE DOCUMENTS. ONCE A CONTRACT IS CONCLUDED WITH A SUCCESSFUL TENDERER, THIS PAGE WILL BE REPLACED WITH THE FILLED AND SIGNED OFFER AND SIGN ACCEPTANCE BY THE EMPLOYER AND IT WILL BECOME PART OF THE CONTRACT.

PLEASE SUBMIT THE OFFER AND ACCEPTANCE FORM WITH THE OTHER RETURNABLE DOCUMENTS.



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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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## **C1.2 - CONTRACT DATA**

| C 1.2 CONTRACT DATA:<br>with GCC for Construction Works - Second Edition 2010                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONTRACT DATA FOR:                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAMME PHASE 03: ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tender no:                                                                                                           | ZNTD 06395 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                      | The General Conditions of Contract are the clauses contained in the General Conditions of Contract (2010) (Second Edition) published by the South African Institution of Civil Engineering. Copies of these conditions of contract may be obtained through most regional offices of the South African Institution of Civil Engineering, telephone number 011 805 5947 or by visiting their website at <a href="http://www.saice.org.za">www.saice.org.za</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                      | <b>CONTRACT SPECIFIC DATA</b><br>The following contract specific data are applicable to this contract:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                      | <b>CONTRACT VARIABLES</b><br><br>This schedule contains all variables specific to this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of this <b>agreement</b> .<br><br>Spaces requiring information must be filled in, shown as 'not applicable' or deleted <u>but not left blank</u> . Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [ ] brackets.<br><b>The Engineer/Principal Agent, in accordance with Clause 1.1.1.16, shall obtain the specific approval from the Employer before executing any of his functions according to the "Conditions under which Consultants are appointed", or in the event where an employee of the Employer represents the Employer, the relevant General Delegations applicable at the time of executing his/her duties as described in Clause 3.1.2.</b> |
| Part 1: CONTRACT DATA PROVIDED BY THE EMPLOYER:                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                      | <b>PRE-TENDER INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                      | <b>CONTRACTING AND OTHER PARTIES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [1.1.1.15]                                                                                                           | <b>Employer:</b><br><b>Head: Public Works (KZN Department of Public Works &amp; Infrastructure: Province of KwaZulu-Natal)</b><br><b>Postal address:</b><br><b>Private Bag X 9041</b><br><b>PIETERMARITZBURG</b><br><b>3200</b><br><b>Tel: 033 - 8971399 Fax: 033 - 8971300</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [1.2.1.2]                                                                                                            | <b>Physical address:</b><br><b>191 Prince Alfred Street</b><br><b>PIETERMARITZBURG</b><br><b>3200</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [1.1.1.16]                                                                                                           | <b>Employers Agent 1</b><br><b>Mr. Lindokuhle Kraai</b><br><b>Agent's service:</b><br><b>Project QS</b><br><b>Postal address:</b><br><b>X54336</b><br><b>eThekweni</b><br><b>4091</b><br><b>Tel: N/A Fax: N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                      | <b>Employers Agent 2</b><br><b>[Agents Name]</b><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><b>Tel: [Tel Number including Area Code] Fax: [Fax Number including Area Code]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                      | <b>Employers Agent 3</b><br><b>[Agents Name]</b><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><b>Tel: [Tel Number including Area Code] Fax: [Fax Number including Area Code]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                      | <b>Employers Agent 4</b><br><b>[Agents Name]</b><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><b>Tel: [Tel Number including Area Code] Fax: [Fax Number including Area Code]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|            |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Tender no: | ZNTD 06395 W                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                           |  |
|            | <b>Employers Agent 5</b><br><b>[Agents Name]</b><br><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><br><b>Tel: insert [Tel Number including Area Code]</b> <b>Fax: [Fax Number including Area Code]</b> |                                                                                                                                                                                           |  |
|            | <b>Employers Agent 6</b><br><b>[Agents Name]</b><br><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><br><b>Tel: insert [Tel Number including Area Code]</b> <b>Fax: [Fax Number including Area Code]</b> |                                                                                                                                                                                           |  |
|            | <b>Employers Agent 7</b><br><b>[Agents Name]</b><br><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><br><b>Tel: insert [Tel Number including Area Code]</b> <b>Fax: [Fax Number including Area Code]</b> |                                                                                                                                                                                           |  |
|            | <b>Employers Agent 8</b><br><b>[Agents Name]</b><br><br><b>Agent's service:</b><br><b>[Identify Agent's Service, eg. Engineer]</b><br><br><b>Postal address:</b><br><b>[P.O. Box number]</b><br><b>[Name of town]</b><br><b>[Code]</b><br><br><b>Tel: insert [Tel Number including Area Code]</b> <b>Fax: [Fax Number including Area Code]</b> |                                                                                                                                                                                           |  |
|            | <b>PART 1: DATA PROVIDED BY THE EMPLOYER</b>                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                           |  |
| [1.1.1.13] | <b>Defects Liability Period</b><br>The defects liability period is: <b>A time measured from the date of the Certificate of Completion.</b><br>Defects Liability Period is 12 Months for the whole of the Works                                                                                                                                 |                                                                                                                                                                                           |  |
|            | <b>Latent Defect Period</b>                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                           |  |
| [5.16.3]   | The latent defect period is: <span style="border: 1px solid black; padding: 2px;">5 years after the Final Approval Certificate</span>                                                                                                                                                                                                          |                                                                                                                                                                                           |  |
|            | <b>Documentation required before Commencement of the Works:</b>                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |  |
| [5.3.1]    | The documentation required before commencement with the Works execution are;                                                                                                                                                                                                                                                                   |                                                                                                                                                                                           |  |
| [4.3]      | Health and Safety Plan                                                                                                                                                                                                                                                                                                                         | The Contractor shall deliver his Health and Safety Plan of the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.                              |  |
| [5.6]      | Initial Programme                                                                                                                                                                                                                                                                                                                              | The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date.                                                |  |
| [6.2]      | Guarantee                                                                                                                                                                                                                                                                                                                                      | The Contractor shall deliver his chosen Guarantee (security) for this Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.                       |  |
| [8.6]      | Insurance                                                                                                                                                                                                                                                                                                                                      | The Contractor shall deliver his insurance for the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.                                          |  |
|            | Cash flow by contractor                                                                                                                                                                                                                                                                                                                        | The Contractor shall deliver his Cash flow for the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.                                          |  |
|            | Priced Bill of Quantity                                                                                                                                                                                                                                                                                                                        | The Contractor shall deliver his Priced Bill of Quantity within 14 calendar days after notice from the Employer, prior to the Commencement Date.                                          |  |
|            | Programme                                                                                                                                                                                                                                                                                                                                      | The Contractor is required to submit his Programme of Works in terms of Clause 5.6.1 and 5.3.1 and the Principal Agent is required to approve this within 7 days in terms of Clause 5.6.3 |  |
|            | Other requirements                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                           |  |
| [5.3.2]    | The time to submit the documentation required before commencement with Works execution is: <span style="border: 1px solid black; padding: 2px;">14</span> calendar days                                                                                                                                                                        |                                                                                                                                                                                           |  |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | <b>Non-Working days</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |
| [5.8.1]     | Non-Working days<br>Special non- working days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sundays<br><b>All Nationally Recognized Public Holidays and the year end break</b>                                                                               |
| [5.8.1]     | First Year end break - commences<br>ends on<br>Second Year end break - commences<br>ends on<br>Third Year end break - commences<br>ends on<br>Fourth Year end break - commences<br>ends on                                                                                                                                                                                                                                                                                                                                                                                                       | <b>16-Dec-26</b><br><b>09-Jan-27</b><br><b>N/A</b><br><b>N/A</b><br><b>N/A</b><br><b>N/A</b><br><b>N/A</b>                                                       |
|             | <b>Engineer/Principal Agent to consult with Employer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                  |
| [3.1.3]     | The Engineer shall obtain the specific approval from the Employer before executing any of his functions according to the "Conditions under which Consultants are appointed", or in the event where an employee of the Employer represents the Employer, the relevant General Delegations applicable at the time of executing his/her duties.                                                                                                                                                                                                                                                     |                                                                                                                                                                  |
|             | <b>Security</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |
| [6.2.1]     | The time to deliver the deed of guarantee is Prior to site hand over in terms of clause 5.3.1 and 5.3.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                  |
| [6.2.1]     | Please see CONTRACT DATA - below to select Guarantee Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                  |
|             | <b>Commencement Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                  |
|             | Commencement date means the date of Site Hand over that should not occur prior to the tenderer receiving one fully signed copy of the Offer and Acceptance in terms of the Form of Offer and Acceptance.                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                  |
|             | <p>The <b>Agreement comes into effect</b> on the date when;<br/>The tenderer <b>receives one fully completed original copy of this document</b>, including the Schedule of Deviations (if any)</p> <p>The agreement ("this document") consists of;</p> <ol style="list-style-type: none"> <li>1. Agreement and Conditions of Contract.</li> <li>2. Form of Offer and Acceptance.</li> <li>3. Contract Data.</li> <li>4. Scope of Works.</li> <li>5. Site Information.</li> <li>6. Drawings &amp; documents referred to in the 1 to 4 above.</li> </ol> <p>(See Form of Offer and Acceptance)</p> |                                                                                                                                                                  |
| [5.3.1]     | The contractor shall commence executing the Works within 7 calendar days from the Commencement Date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |
| [5.4.1]     | <b>Possession of the site</b> will be given within 10 calendar days after the <b>contractor</b> has fulfilled the conditions (4.3, 5.6, 6.2, 8.6) and received the notification from the Employer of Site Hand Over where the contractor will receive one <u>fully signed</u> copy of the Form of Offer and Acceptance from the <b>employer</b> .                                                                                                                                                                                                                                                |                                                                                                                                                                  |
| [5.6.1]     | The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                  |
|             | <b>CONTRACT DETAILS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |
| [1.1.1.33]  | <b>Works</b> description: Refer to document C3 – Scope of Work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |
| [1.1.1.30]  | <b>Site</b> description: Refer to document C4 – Site Information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                  |
|             | Specific options that are applicable to a <b>State</b> organ only<br>Where so :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |
| [6.10.6.2]  | <p>1) Interest rate legislation:</p> <p>(a) in respect of interest owed by the <b>employer</b>, the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and</p> <p>(b) in respect of interest owed to the <b>employer</b>, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply</p>               |                                                                                                                                                                  |
|             | 2) Lateral support insurance to be effected by the contractor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes   X   No                                                                                                                                                     |
|             | 3) Payment will be made for materials and goods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes   X   No                                                                                                                                                     |
|             | 4) Dispute resolution by litigation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes   No   X                                                                                                                                                     |
|             | 5) Extended defects liability period applicable to the following elements:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Electrical, Mechanical and Civil work</b>                                                                                                                     |
| [8.6.1.1.2] | The Value of material, supplied by the Employer, and not included in the Contract Price, is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R0,00                                                                                                                                                            |
| [8.6.1.1.3] | The amount to cover Professional Fees, not included in the Contract Price, for repairing damage and loss to be included in the insurance:<br><b>30% of the Contract Price</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                  |
| [8.6.1.3]   | The limit for indemnity for liable insurance is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Unlimited</b>                                                                                                                                                 |
| [6.5.1.2.3] | The percentage allowance to cover overhead charges for contractor and subcontractors, is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>33.30%</b>                                                                                                                                                    |
| [1.1.1.14]  | <b>Practical Completion Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                  |
|             | The Practical Completion date is: <b>A time measured from the Commencement date.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |
|             | For the <b>works</b> as a whole:<br>The whole of the works shall be completed within:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>6 Months</b> (which shall be deemed to include all Non – Working Days, Special Non – Working Days and the year-end Builders Annual Industry Holiday Periods). |
| [5.5.1]     | The date for practical completion shall be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | To be determined                                                                                                                                                 |
| [5.13.1]    | The penalty per calendar day shall be :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>0.04% of the Contract Price, rounded to the nearest R10</b>                                                                                                   |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | For the works in sections:<br>The date for practical completion from the commencement date and the penalty per calendar day:<br>tion 1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [5.5.1]<br>[5.13.1]           | N/A<br>0.04% of the Contract Price, rounded to the nearest R10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Portion 2:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [5.5.1]<br>[5.13.1]           | N/A<br>0.04% of the Contract Price, rounded to the nearest R10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Portion 3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [5.5.1]<br>[5.13.1]           | N/A<br>0.04% of the Contract Price, rounded to the nearest R10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Portion 4:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [5.5.1]<br>[5.13.1]           | N/A<br>0.04% of the Contract Price, rounded to the nearest R10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Portion 5:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [5.5.1]<br>[5.13.1]           | N/A<br>0.04% of the Contract Price, rounded to the nearest R10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Portion 6:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [5.5.1]<br>[5.13.1]           | N/A<br>0.04% of the Contract Price, rounded to the nearest R10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [1.3.2]                       | The law applicable to this agreement shall be that of the: Republic of South Africa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [6.10.1.5]                    | The percentage advance on materials not yet built into the Permanent Works is: 80.00%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [6.10.3]                      | Percentage retention on amounts due to contractor is: The Percentage retention is 5%. The only security required by the Employer will be such as selected by the Contractor on the Form of Offer and Acceptance and Part 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR, point 2 - Documents, of the Contract Data.<br>Maximum retention is: 5.00% of the Contract Price                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [6.8.1]<br>[6.8.2]<br>[6.8.3] | Notwithstanding anything to the contrary contained in the General conditions of Contract and Preliminaries, this contract could only, when the construction period exceeds 6 months and the contract exceeds R1,000,000.00, be subject to a Contract Price Adjustment Factor.<br>Clause 6.8.2 the last part of the sentence saying "calculated according to the formula and the conditions set out in the Contract Price Adjustment Schedule." must be replaced by "calculated according to the Contract Price Adjustment Provisions (CPAP) Indices Application Manual for use with P0151 indices (Revised 1 January 2013)" as published by Statistics South Africa. The Contract Price Adjustment Provision (CPAP) will be subject to the most recently released indices by Statistic South Africa. Tenderers are advised that with reference to Clause 3.4.6 of the Contract Price Adjustment Provisions (CPAP) Indices Applications Manual, the Head: Public Works will not accept the submission by Tenderers of lists of additional items."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [6.8.2]<br>[6.8.3]            | Where this contract is a Lump Sum contract, the contract will only be subject to Contract Price Adjustment Provisions (CPAP)(Revised 1 January 2013) where the contract period equals or exceeds 6 calendar months. The applicable work group shall be WG 180 for domestic buildings or WG 181 for commercial and industrial buildings only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [5.14.5]                      | The following clause must be added to clause 5.14.5:<br>[5.14.5.6] Upon issuance of a completion certificate the employers agent shall submit the final account within 3 calendar months to the principal agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [10.5]<br>[10.5.3]            | The determinations of disputes shall be by ARBITRATION ONLY.<br>The number of Adjudication Board Members to be appointed is: One<br>Replace the last part of the clause with the following: "...on the application of either party, by the Chairman, or his nominee of the Association of Arbitrators."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [10.9.1]                      | Where CPAP is applicable, the contract sum will be adjusted in accordance with the Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as published by Statistics South Africa, dated 1 January 2013 and any amendments thereto:<br>1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the bills of quantities.<br>2) In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be adjusted in accordance with Work Group 170.<br>3) Further to clause 3.4.6 of the CPAP Indices Application Manual, the listing of additional items for exclusion by Tenderer's, will not be permitted.<br>Alternative Indices: Not Applicable<br>Details of changes made to the General Conditions of Contract for construction works (2010) Second Edition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [1.1]                         | Clause<br>[1.1.1.5] COMMENCEMENT DATE – means the actual date of Site Hand over that should not occur prior to the Tenderer receiving one fully signed copy of the Offer and Acceptance in terms of the Form of Offer and Acceptance.<br>[5.12.2.2] ABNORMAL CLIMATIC CONDITIONS - means conditions over and above what could reasonably be expected for the specific locality where the Works are being executed and include inter alia excessive rain, heat, cold, wind and any other climatic condition that would not normally be experienced during the season that the Works are executed in that area. The South African Weather Service's ( <a href="http://www.weathersa.co.za">http://www.weathersa.co.za</a> ) 10 year average climatic conditions statistics would be what could be reasonably expected for the specific locality where the Works are executed.<br>[6.2.1] CONSTRUCTION GUARANTEE – means an on demand guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the Offer and Acceptance Form and the contract data.<br>CONSTRUCTION PERIOD – means the period commencing on the commencement date and ending on the date of due completion date. This period will be deemed to commence on actual site hand over date to the contractor and end on the date of practical completion and shall include all annual industrial holiday periods, Sundays and public holidays.<br>CORRUPT PRACTICE – means the offer, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.<br>FINAL ACCOUNT - The document prepared by the principal agent, which reflects the contract value of the works at final approval or termination.<br>FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practise among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.<br>INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular: |

|            |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | (a)  | in respect of interest owed by the <b>employer</b> , the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | (b)  | in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [1.1.1.16] |      | <b>ENGINEER/PRINCIPAL AGENT</b> – means the person or entity appointed by the <b>Employer</b> and named in the <b>Contract Data</b> as the <b>Engineer/Principal Agent</b> to act as agent of the <b>Employer</b> . In the event of an <b>Engineer/Principal Agent</b> not being appointed, then all the duties and obligations of an <b>Engineer/Principal Agent</b> as detailed in the <b>Contract</b> shall be fulfilled by a representative of the <b>Employer</b> as named in the <b>Contract Data</b> . (Hereafter referred to as <b>Engineer</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [1.1.1.21] |      | <b>GENERAL ITEMS</b> - or preliminaries means items stipulated in the Pricing Data relating to general obligations, site services, facilities and/or items that cover elements of the cost of the work which are not considered as proportional to the quantities of the Permanent Works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [4.4.1]    |      | Add the following to the clause 4.4.1: "The Contractor shall only use subcontractors who are duly registered with the CIDB and who has an <b>ACTIVE</b> status at the time of submitting the tender"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [6.2.1]    |      | Refer to Offer and Acceptance form for the various options that the contractor may choose from in providing a form of <b>Guarantee</b> under "GUARATEE OPTIONS".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [6.10.6.2] |      | Replace "at the prime overdraft rate, as charged by the Contractor's Bank," with "...at the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975)." Omit "on all overdue payments from the date on which the same should have been paid..." and replace with "only after 30 calendar days from receiving written notice from the Contractor that the amount is overdue..."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [5.12.3]   |      | <p><b>SPECIAL CONDITIONS OF CONTRACT</b></p> <p>Omit clause 5.12.3 and add the following:</p> <p>"5.12.3. If an extension of time is granted, the Contractor shall be paid such additional time-related General Items, including for special non-working days, if applicable as are appropriate regarding to any other compensation which may already have been granted in respect of the circumstances concerned. The reasons for extension of time that would invoke payment of time related General Items are inter alia;</p> <p>5.12.3.1 Failure to give possession of the site to the contractor.</p> <p>5.12.3.2 Making good physical loss and repairing damage to the works where the contractor is not at risk.</p> <p>5.12.3.3 Contract instructions not occasioned by default by the contractor.</p> <p>5.12.3.4 Failure to issue construction information timeously or the late issue of a contract instruction following a request from the contractor.</p> <p>5.12.3.5 Late acceptance by the principal agent of a design undertaken by a selected subcontractor where the contractor's obligations have been met.</p> <p>5.12.3.6 Suspension or cancellation termination invoked by a nominated or selected n/s subcontractor due to default by the employer or the principal agent.</p> <p>5.12.3.7 Insolvency of a nominated subcontractor.</p> <p>5.12.3.8 A direct contractor.</p> <p>5.12.3.9 Opening up and testing of work and materials and goods where such work is according to in accordance with the contract documents.</p> <p>5.12.3.10 The execution of additional work for which the quantity included in the bills of quantities is not sufficiently accurate.</p> <p>5.12.3.11 Late or failure to supply materials and goods for which the employer is responsible.</p> <p>5.12.3.12 Suspension of the works."</p> |
| [5.14.5.1] |      | Omit entire clause 5.14.5.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [5.16.4]   |      | Add the following new clause "5.16.4. Upon the issue of a Final Approval Certificate, unless otherwise provided in the Contract: <p>5.16.4.1. The performance Guarantee (if any) shall be returned within 14 days to the guarantor in terms of Clause 7."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [6.2.2]    |      | Replace the following "...it shall be deemed that the Contractor has selected a security of ten percent retention of the value of the Works." with "...it shall be deemed that the Contractor has selected a security of a bank or insurance guarantee of 5% of the value of the Works and a payment reduction of 5% of the value certified in the payment certificate excluding value added tax."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [6.2.3]    |      | Add to clause 6.2.3 the following "The Contractor shall provide proof of paid-up premium payments to accompany his payment certificate as proof that his performance guarantee has not expired yet. The Contractor will not receive payment without proof of the validity of their performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [9.3.2.2]  |      | Omit "without prejudice to the exercise of any lien the Contractor may have acquired over the Employer's property."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            |      | Duties and functions of the <b>Engineer</b> requiring the specific approval of the <b>Employer</b> BEFORE execution of any part of these duties are as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | (a)  | Determinations of contractors claims for extension of time (revision of the contract completion date). All claims for extension of time shall be submitted by the <b>Engineer</b> , together with the <b>Engineer's</b> recommendations, to the <b>Employer</b> for determination. Omit "Engineer" in clause 42.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|            | (b)  | Drawings, instructions or communications of any kind requiring variations of the works and involving EXTRA's shall NOT be given effect by the <b>Contractor</b> UNTIL BOTH the "Official Variation Order" and the "Financial Request for Variation Order and Additional Funds" form, as issued by the Department of Public Works, have been approved and signed by the <b>Employer</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|            | (c)  | Insurance policies to be approved by the <b>Employer</b> within 21 days of the date of the <b>Commencement</b> of the Works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | (d)  | Any notice of disagreement raised by the <b>Contractor</b> or written Dispute Notice given by the <b>Contractor</b> to the <b>Engineer</b> shall be submitted by the <b>Engineer</b> , together with the <b>Engineer's</b> recommendations, to the <b>Employer</b> for determination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | (e)  | The issue of the certificate of practical completion, certificate of completion and the final approval certificate shall be signed and submitted by the <b>Engineer</b> , to the <b>Employer</b> for final approval and signature. The certificates shall not be considered as officially issued until signed by the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            |      | <b>MANAGING PROJECT DURATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|            | (a)  | The Contractor shall co-ordinate his programme with all other contractors whose work may precede or be executed simultaneously to his own. The Contractor will be called upon to plan and control the project using the Project Evaluation and Review Technique (PERT) or other approved Critical Path Method (CPM) network analysis of his events and activities and those of the sub-contractors in his employ and must co-ordinate his planning with any other contractor employed on the project. A fortnightly project control report will be expected from the Contractor in writing, evaluating any gains or delays against the critical path and he should allow for all costs involved in planning reviewing and updating the programme to the satisfaction of the Principal Agent against this item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | (b)  | Activity and total float shall belong to the Employer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | (c)  | The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date. It is a condition of this contract that, the contractor submit to the Engineer/principal agent a detailed CPM Programme which shall be to the approval of the Engineer/principal agent. In this regard tenderers are advised to consult with the Engineer/Principal Agent as to the format and requirements of the programme as no claim whatsoever will be entertained should the programme fail to meet the requirements of the Engineer/Principal Agent. Failure to submit the programme within the stipulated time may result in the contractor being held in breach of contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|            |      | The approved programme will form the basis of time management of the project and extension of time will not be guaranteed unless the Contractor has strictly complied with this provision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|            |      | The programme shall make allowance for rain and the number of rain days allowed within the critical path shall be on the provisions of the clause dealing with inclement weather and claiming for delays in performance in this bill.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            |      | Allowance for the above must be made under this item as no claims for failing to comply with this precondition will later be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            |      | <b>INCLEMENT WEATHER AND CLAIMS FOR DELAYS IN PERFORMANCE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | (a)  | The Contract Sum includes a monthly allowance of 3 working days inclement weather during which rainfall exceeds 10mm per day for months as indicated in the Scope of Works. These days shall be reflected on the critical path of the Contractor's programme as specified in MANAGING PROJECT DURATION above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | (b)  | Claims for delays in performance due to inclement weather shall be calculated separately for each calendar month and for the project as a whole. Delays or gains to the critical path shall be reflected in all revisions of the programme. An extension of time will only be granted where the following conditions are met:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | (i)  | The criteria to be used for WORK stoppages shall be for safety hazards or poor quality of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | (ii) | The Employer's site representative or the Employer's Principal Agent, if the site representative is not available shall be notified when the Contractor stops the work and intends to claim performance delays. The Employer representative shall inspect the situation together with the Contractor and give an immediate decision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

1. The stoppage claimed must cause a delay in the Completion Date of work. If the critical activities can proceed and a non-critical activity is delayed due to inclement weather no claims for delay shall be granted.
2. No claims for stoppages less than 2(two) hours per day shall be considered.
3. Claims granted for more than 2 (two) hours, but less than 10 (ten) hour (lunch included) day, shall be added together and expressed as full days.
4. All claims shall be submitted in writing to the Principal Agent within one working day of the actual stoppage.
5. The total delay in performance granted to the Contractor expressed in days shall be added to the contractual Completion Date of each section of the Works. The contractual penalty clause shall only come into effect after this newly arrived date.
6. Total delays (in hours) will be rounded up or down to the nearest integer for the calculation of Working Days. The total hours (including lunch) per Working Day shall be 10 unless otherwise indicated on the Contractor's programme.
7. Where the programmed delays for inclement weather exceed the actual delays incurred the Completion Date(s) will not be adjusted.
8. Where the project includes builder's holidays the programmed durations for inclement weather shall be adjusted pro-rate to the actual Working Days.
9. The total of all monthly delays due to inclement weather shall be calculated in accordance with the example given below:

| Description                                   |           | Months |       |       |       |       | Total |
|-----------------------------------------------|-----------|--------|-------|-------|-------|-------|-------|
|                                               |           | Sept   | Oct   | Nov   | Dec   | Jan   |       |
|                                               |           | Hours  | Hours | Hours | Hours | Hours |       |
| Programmed                                    | Rain days | 0      | 30    | 30    | 15    | 15    | 90    |
| Actual                                        | Rain days | 16     | 22    | 35    | 15    | 18    | 106   |
| Difference                                    |           | -16    | 8     | -5    | 0     | -3    | -16   |
| Estimated Extension of time - in working days |           |        |       |       |       |       | 2     |

8 hrs/day\*

See point 5.2 in the Scope of Works for the specific days the tenderer must allow for in this contract.

Tender no: ZNTD 06395 W Part 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR:

#### POST-TENDER INFORMATION

Note: All information for this section requires consultation with the Contractor. The Engineer/Principal Agent shall not pre-select any of the alternatives available to the Contractor.

#### 1 CONTRACT DETAILS

[1.1.1.9] Contractor Name: .....

[1.2.1.2] Postal address: .....

.....

Tel no ..... Fax no .....

Tax / VAT Registration No: ..... e-mail .....

Physical address: .....

.....

.....

[1.1.1.10] The accepted contract price inclusive of tax is R :

[Amount in words]

#### Payment Of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)

The preliminaries amounts shall be paid in terms of:

|                 |     |
|-----------------|-----|
| *Alternative A  | Yes |
| **Alternative B | N/A |

\* Assessed by the Engineer/Principal Agent as an amount prorated to the value of the Work duly executed in the same ratio as the Preliminaries bears to the Contract Price excluding VAT, Preliminary amount, Contingencies and any CPAP.

\*\* Calculated from the priced Bill of Quantity/Lump Sum document. The Contractor and the Engineer/Principal Agent shall agree on a division of the priced Preliminaries items into: initial establishment charge, monthly charge and final disestablishment charge.

If the Contractor and the Engineer/Principal Agent can not agree, within 10 Working Days from the Commencement Date, on such a division then the Engineer/Principal Agent shall make a division of the Preliminaries to be incorporated in the valuations for each monthly payment certificate as follows;

10% of the General Items/Preliminaries amount shall not be varied

15% of the General Items/Preliminaries shall only be varied in proportion of the Contract Price to the Contract Sum

75% of the General Items/Preliminaries shall be varied in proportion to the revised Construction Period compared with the initial Construction Period.

#### Alternative A

#### Adjustment of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)

For the adjustment of Preliminaries both the Contract Sum and the Contract Value (including tax) shall exclude the amount of Preliminaries, all Contingency Sum(s) and any provision for Cost Price Adjustment Provisions:-

- An amount which shall not be varied.

- An amount varied in proportion to the contract value as compared to the Contract Sum.

- An amount varied in proportion to the Construction Period as compared to the initial Construction Period (excluding revisions to the Construction Period to which the Contractor is not entitled) to adjustment of the Contract Value in terms of the agreement.

The Contractor shall provide a breakdown of charges (including tax) within 15 working days of the date of acceptance of tender and, where applicable, an apportionment of Preliminaries per section

If the Contractor and the Principal Agent cannot agree, within ten (10) Working Days from the Commencement Date, on such a division then the Principal Agent shall make a division of the Preliminaries to be incorporated in the valuations for each monthly payment certificate as follows;

10% of the amount shall not be varied

15% varied in proportion of the Contract Value to the Contract Sum

75% varied in proportion to the revised Construction period compared with the initial Construction Period

#### Sectional Completion : Subdivision of Preliminaries Costs

For the adjustment of preliminaries for sections of the work the value of fixed, value, and time related amounts of the preliminaries for each section is required. The contractor is to provide such information within fifteen (15) working days of taking possession of the site, failing which the categorised preliminaries amounts shall be prorated to the value of each section.

The above shall apply equally for projects where sectional completion was not contemplated at tender stage but subsequently occurred on an adhoc basis during construction of the works as agreed between the client and the employer. The original priced categorised amounts for fixed, value, and time related amounts shall be prorated to the value of each section.

When an extension of time has been granted in terms of the GCC and the preliminaries require to be adjusted accordingly, the pertinent sectional (subdivided) categorised preliminaries amounts shall be utilised, where applicable and not the overall preliminary amounts.

Where sectional completion is required in terms of the agreement, the Contractor shall provide the Principal Agent with the division of the above categorized amounts into sections. Should the Contractor fail to provide such information within the period stipulated the categorized amounts shall be prorated to the value of each section.

YES yes / no

or

Alternative B

The Contractor shall within 15 working days of the date of possession of the site provide the Principal Agent with a detailed breakdown of Preliminaries amounts for the works as a whole, or per section where applicable, including administrative and supervisory staff charges and for the use of construction equipment in terms of the programme.

NO yes / no

The contractor is informed that only option 'A' shall apply

## 2 DOCUMENTS

Contract documents marked and annexed hereto:

Priced Bills of Quantities:

Yes

No

Lump Sum document: :

Yes

No

Guarantee Options:

Not applicable

### 2.2 DESIGN BRIEF

Not applicable

YES or NO

### 2.3 DRAWINGS

YES or NO

See list of drawings/Annexure's attached to this document.

YES or NO

### 2.4 DESIGN PROCEDURES

YES or NO

Not applicable

Contract drawings:

Yes

No

Other documents:

Waiver of the Contractors lien or right of continuing possession is required.

YES

## GUARANTEE OPTIONS

The Tenderer agrees to provide a bank or insurance guarantee in accordance with clause 6.2.3 of the Conditions of the GCC2010 Contract within the period stated in the Contract Data. This guarantee shall be for a sum equal to an amount stated in the Contract Data.

**Guarantees submitted must be issued by either an insurance company duly registered in terms of the Insurance Act (Long Term Insurance Act No 52 of 1998 or Short Term Insurance Act No 53 of 1998) or by a bank duly registered in terms of the Banks Act No 94 of 1990, on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.**

(a) the tenderer accepts that in respect of contracts up to R1 million, a payment reduction of 5% of the contact value will be applicable and will be reduced by the Employer in terms of the applicable conditions of contract.

(b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below: select one option

(i) cash deposit of 10 % of the Contract Price

(ii) bank or insurance Performance Guarantee of 10 % of the Contract Price

(iii) cash deposit of 5% of the Contract Price and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)

(iv) bank or insurance guarantee of 5% of the Contract Price and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)

**NOTE:** Where the Tenderer has not selected one of the guarantee options above, the default option will be as if the Tenderer has selected a security of a bank or insurance guarantee of 5% of the value of the Works and a payment reduction of 5% of the value certified in the payment certificate excluding value added tax. - See GCC2010 clause 6.2.2 as amended in Contract Data.

**3 SIGNATURES OF THE CONTRACTING PARTIES**

Thus done and signed at.....on .....of.....20.....

Name of signatory

for and behalf of the **Employer** who by signature hereof

Capacity  
of signatory

as Witness.

Thus done and signed at.....on .....of.....20.....

Name of signatory

for and behalf of the **Contractor** who by signature hereof

Capacity of signatory

as Witness.



**KWAZULU-NATAL PROVINCE**  
**PUBLIC WORKS & INFRASTRUCTURE**  
**REPUBLIC OF SOUTH AFRICA**

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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAMME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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## **C1.3 - FORM OF GUARANTEE**

## C1.3 PERFORMANCE GUARANTEE - GCC FOR CONSTRUCTION WORKS (2nd Edition - 2010)

Head: Public Works  
KZN Department of Public Works:  
Private Bag X 9041  
PIETERMARITZBURG  
3200

Sir,

### ON DEMAND PERFORMANCE GUARANTEE

**Tender Number ZNTD 06395 W**

**Project Code 065544**

For use with the General Conditions of Contract for Construction Works, Second Edition, 2010.

#### GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means: \_\_\_\_\_

Physical Address: \_\_\_\_\_

"Employer" means: The Provincial Administration of KwaZulu-Natal in its Department of Public Works

"Contractor" means: \_\_\_\_\_

"Engineer" means: \_\_\_\_\_

"Works" means:

**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION  
PROGRAME PHASE 03: ETHEKWINI REGION: KHANYISA SECONDARY  
SCHOOL**

"Site" means: \_\_\_\_\_

"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

"Contract Sum" means: The accepted amount inclusive of tax of: \_\_\_\_\_

Amount in Words:

"Guaranteed Sum" means: The maximum aggregate amount of: 10%  
Of Contract Sum

Amount in Words: \_\_\_\_\_

"Expiry Date" means: \_\_\_\_\_

## CONTRACT DETAILS

Engineer issues: Interim Payment Certificates, Final Payment Certificates and the Certificate Completion of the Works as defined in the Contract.

## PERFORMANCE GUARANTEE

- 1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2 The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the date of issue by the Engineer of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Engineer and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.
- 3 The Guarantor hereby acknowledges that:
  - 3,1 any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
  - 3,2 its obligation under the Performance Guarantee is restricted to the payment of money.
- 4 Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
  - 4,1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Engineer in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2:
  - 4,2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
  - 4,3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum Certified in 4.
- 5 Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
  - 5,1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or
  - 5,2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and
  - 5,3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 6 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
- 7 Where the Guarantor has made payments in terms of 5, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Payment Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 8 Payment by the Guarantor in terms of 4 or 5 shall be made with seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 9 Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer.

- 10 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 11 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 12 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 13 This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 14 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Court Act No 32 of 1944, as amended, to this jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)



**KWAZULU-NATAL PROVINCE**  
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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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## **PART C2 - PRICING DATA**

## C2.1 PRICING INSTRUCTIONS

### GCC FOR CONSTRUCTION WORKS (Second Edition 2010)

|                       |                                                                                                                                 |                      |               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|
| <b>Project title:</b> | <b>DPW&amp;I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAMME PHASE 03: ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL</b> |                      |               |
| <b>Tender no:</b>     | <b>ZNTD 06395 W</b>                                                                                                             | <b>Project Code:</b> | <b>065544</b> |

### C2.1 Pricing Instructions

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | <p>Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")</p> <p>The adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount variable in proportion to time.</p>                                                                                                                    |
| <b>1</b> | <p><b>MASSES AND MEASURING UNITS</b></p> <p>These shall be in accordance with the Measuring Units and National Measuring Standards Act No. 76 of 1973 and amendments thereto.</p> <p>The pages of each of these documents are numbered consecutively and before the Tenderer submits his tender he should check the number of pages, and if any are found missing or duplicated, or the figures or writing indistinct, or the documents contain any obvious error, he should apply to the Head : Public Works AT ONCE and have same rectified as no liability whatsoever will be admitted by the Administration in respect of errors in Tender due to the foregoing.</p> |
| <b>2</b> | <p><b>PRICES FOR VARIATIONS</b></p> <p>Where prices or quotations for variations are submitted by the Contractor during the currency of the Contract, it is to be clearly understood that these are for the purpose of consideration by the Head : Public Works and that there is no assumption of acceptance. The Contractor will be notified of acceptance of prices or quotations either by insertion of the amount on the variation order or by written intimation.</p>                                                                                                                                                                                              |
| <b>3</b> | <p><b>SCALE</b></p> <p>The scale to which the Drawings are made is only to be made use of when no figured dimensions are given either on the Drawings or in the tender documents and the figured dimensions are always to be followed though they may not coincide with the scale of the Drawings, but dimensions where possible are to be taken from the buildings.</p>                                                                                                                                                                                                                                                                                                 |
| <b>4</b> | <p><b>PROVISIONAL ITEMS</b></p> <p>All items described as "Provisional" shall be used as directed by the Employer and measured and valued or paid for.</p> <p>No work for which "Provisional" items are allowed shall be commenced without written instructions from the Head : Public Works.</p>                                                                                                                                                                                                                                                                                                                                                                        |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | <p><b>TIMELY ORDERING OF MATERIALS</b></p> <p>The Contractor is warned to place all orders for materials or special articles as early as possible, as he will be held solely responsible for any delay in the delivery of such goods.</p> <p>Nevertheless this tender is conditional upon no liability being attached to the Contractor if delivery of materials is rendered impossible by reason of any act of the Government.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6 | <p><b>ELECTRICAL LIGHTING, POWER AND WATER</b></p> <p>The Contractor shall provide any artificial lighting which may be necessary or required for the proper execution of the works, and provide electric power and water required by all Sub-Contractors, Nominated Sub-Contractors and Sub-Contractors appointed directly by the Employer.</p> <p>The Contractor shall give all notices and pay all fees in connection with temporary electrical and water connections and shall connect temporary Electrical and Water meters for and pay for all current and water consumed.</p> <p>Tenderers are advised that the permanent light fittings and water points of any kind installed in the Works are not to be used to provide temporary lighting and supplement water requirements for construction purposes.</p>                                                                         |
| 7 | <p><b>IMPORT PERMITS, DUTIES AND SURCHARGES.</b></p> <p>All tenders by means of which imported products are being called for, must use the rate of exchange 14 days prior to the closing date indicated in the tender documents. If this day falls on a weekend or public holiday, the next working day must be used.</p> <p>Furthermore, Tenderers must submit documentary proof (in the form of a certified copy) from their bank or legally recognised financial institution, clearly indicating what the rate of exchange was 14 days prior to the closing date, as mentioned above.</p> <p>Together with this, the Tenderer must confirm that the tender price relating to an imported product, was based on the rate of exchange 14 days prior to the closing date as mentioned above.</p>                                                                                              |
| 8 | <p><b>STANDARD SYSTEM OF MEASUREMENT WHERE BILLS OF QUANTITIES FORM PART OF THE TENDER DOCUMENTS</b></p> <p>The work executed under this Contract has been measured in accordance with the;</p> <p style="text-align: center;"><b>Standard System of Measuring Builders Work (7th Edition)</b></p> <p>including all amendments unless descriptions of items indicate a deviation and it shall be understood that the system of measurement which is herein adopted is the only system of measurement which will be recognised in connection with this contract. Any contradictions to this system of measurement contained in the "Model Preambles for Trades 2008" shall be disregarded (unless same have been accommodated in the system of measurement) but applicable rates shall be included for all requirements stated and not measured separately in compliance with this system.</p> |
| 9 | <p><b>PRICING OF ROCK EXCAVATIONS</b></p> <p>It is a condition of this tender that should the tenderer elect to price the Rock Excavation included in this tender, the rates must be market related and should be identically priced for the same classification of excavations and not vary for similar billed items in the different sections.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 10 BROAD BASED BLACK ECONOMIC EMPOWERMENT

1. It is the deliberate policy of the Provincial Administration of KwaZulu-Natal to foster and to encourage the economic empowerment of Black South Africans. This policy will be implemented without prescription and without prejudicing the principles and the integrity of the Provincial Administration of KwaZulu-Natal. Subject to these constraints and also subject to good business practise and commercial consideration, it is therefore considered appropriate that the Provincial Administration of KwaZulu-Natal should encourage business relationships with companies which actively pursue Affirmative Action and Black Economic Empowerment Programmes.
2. In responding to this tender you are therefore encouraged to devote attention to these two subjects of Affirmative Action and Economic Empowerment. In addition, in considering the appointment of sub-contractors, you are requested to extend the spirit of these policies.
3. The foregoing enunciations of this policy are not intended to be prescriptive nor to preclude any individual or operation from responding to this tender.

## 11 REGISTRATION ON THE CENTRAL SUPPLIERS DATABASE

1. In terms of the Public Finance Management Act (PFMA), 1999 (Act No 1 of 1999) Section 38 (1) (a) (iii) and 51 (1) (iii) and Section 76 (4) of PFMA National Treasury developed a single platform, The Central Supplier Database (CSD) for the registration of prospective suppliers including the verification functionality of key supplier information.
2. Prospective suppliers will be able to self - register on the CSD website: [www.csd.gov.za](http://www.csd.gov.za)
3. Once the supplier information has been verified with external data sources by National Treasury a unique supplier number and security code will be allocated and communicated to the supplier. Suppliers will be required to keep their data updated regularly and should confirm at least once a year that their data is still current and updated.
4. Suppliers can provide their CSD supplier number and unique security code to organs of state to view their verified CSD information.
5. Tenderers are required to fill in clearly, legibly, in bold print and black ink their CSD supplier number in the space hereunder:

|                                                             |  |
|-------------------------------------------------------------|--|
| <b>Name of Supplier</b>                                     |  |
| <b>Central Supplier Database (CSD)<br/>Supplier Number:</b> |  |

## 12 TAX CLEARANCE REQUIREMENTS

**It is a condition of tender that the taxes of the successful tenderer must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the Tenderer's tax obligations. It is a condition of this Offer of Commission that your practice remains in good standing with SARS (South African Revenue Services) in terms of its tax clearance, during the project, which is required to process your payment certificates.**

1. In order to meet this requirement tenderers are required to apply via e-filing at any SARS branch office nationally. The Tax Compliance Status (TCS) requirements are also applicable to foreign Tenderers / individuals who wish to submit Tenders.
2. SARS will then furnish the Tenderer with a Tax Compliance Status (TCS) PIN that will be valid for a period of 1 (one) year from the date of approval.
3. In tenders where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Compliance Status (TCS) PIN.
4. Application for Tax Compliance Status (TCS) PIN can be done via e-filing at any SARS branch office nationally or on the website [www.sars.gov.za](http://www.sars.gov.za).

- 5 Tax Clearance Certificates may be printed via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website [www.sars.gov.za](http://www.sars.gov.za).
- 6 Tax Clearance Certificates may be printed via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website [www.sars.gov.za](http://www.sars.gov.za).

**Security PIN Number**

**Company / Entity Tax  
Reference Number**

**13 BILLS OF QUANTITIES/LUMP SUM DOCUMENT**

The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract documents, the Standard Conditions of Tender, Conditions of Contract, Standard Preambles to all Trades, Specifications, Drawings and all other relevant documentation.

**14 VALUE ADDED TAX**

The tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the Bills of Quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.

**15 FIXED PRICE CONTRACT**

Should the Bills of Quantities/Lump Sum Document be a fixed price contract, the following clause must be inserted in the Pricing Instructions:

Tenderders are to take note that the contract price adjustments are not applicable to this contract. Tenderders should therefore make provision in the Contract Sum, schedule of rates, etc. for possible price increases during the contract period, as no claims in this regard shall be entertained.



**KWAZULU-NATAL PROVINCE**  
**PUBLIC WORKS & INFRASTRUCTURE**  
REPUBLIC OF SOUTH AFRICA

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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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## **C2.2 - Preliminaries for GCC for Construction works - 2nd Edition 2010**

**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

**BILL NO. 1**  
**C2 .2 PRELIMINARY AND GENERAL**

|      | NOTES                                                                                                                                                                                                                                                                                                         | UNIT | QUANTITY | RATE | AMOUNT |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| i)   | The agreement is to be the General Conditions of Contract for Works of Civil Engineering Construction (2010) (Second Edition) , published by the S. A. Institution Of Civil Engineering.                                                                                                                      |      |          |      |        |
| ii)  | The Preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921-1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.                                             |      |          |      |        |
| iii) | Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.                                                               |      |          |      |        |
| iv)  | Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading.                                                                                                                |      |          |      |        |
| v)   | Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable").                                                                                                                                                                                               |      |          |      |        |
| vi)  | Adjustment of the preliminaries: each item priced, is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.                              |      |          |      |        |
| vii) | Time (T) related Preliminaries will only be adjusted for omissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted. <b>See Contract Data</b> .                                                                             |      |          |      |        |
|      | <b>SECTION A: GENERAL CONDITIONS OF CONTRACT</b>                                                                                                                                                                                                                                                              |      |          |      |        |
| A1   | General (clause 1)<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                 | Item |          |      |        |
| A2   | Basis of Contract (clause 2)<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                       | Item |          |      |        |
| A3   | Engineer (clause 3)<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                | Item |          |      |        |
| A4   | Contractor's General Obligation (clause 4)<br>F:..... V:..... T:.....                                                                                                                                                                                                                                         | Item |          |      |        |
| A5   | Time and Related Matters (clause 5) - As referred to in the Contract Data under Special Condition of Contract. <b>The Contract Period shall be deemed to include all Non – Working Days, Special Non – Working Days and the year-end Builders Annual Industry Holiday Periods.</b><br>F:..... V:..... T:..... | Item |          |      |        |
|      | Carried forward to collection                                                                                                                                                                                                                                                                                 |      |          | R    |        |

|                                                                                                                                                                                    |                                                                         | UNIT | QUANTITY | RATE | AMOUNT |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------|----------|------|--------|
| A6                                                                                                                                                                                 | Payment and Related Matters (clause 6)<br>F:..... V:..... T:.....       | Item |          |      |        |
| A7                                                                                                                                                                                 | Quality and Related Matters (clause 7)<br>F:..... V:..... T:.....       | Item |          |      |        |
| A8                                                                                                                                                                                 | Risk and Related Matters (clause 8)<br>F:..... V:..... T:.....          | Item |          |      |        |
| A9                                                                                                                                                                                 | Termination of Contract (clause 9)<br>F:..... V:..... T:.....           | Item |          |      |        |
| A10                                                                                                                                                                                | Claims and Disputes (clause 10)<br>F:..... V:..... T:.....              | Item |          |      |        |
| <b>SECTION B: SANS 1921-1:2004 (Edition 1): CONSTRUCTION AND MANAGEMENT REQUIREMENTS FOR WORKS CONTRACTS: PART 1</b><br>Refer to the <b>SCOPE OF WORK</b> for detail requirements: |                                                                         |      |          |      |        |
| B1                                                                                                                                                                                 | Scope<br>F:..... V:..... T:.....                                        | Item |          |      |        |
| B2                                                                                                                                                                                 | Normative references<br>F:..... V:..... T:.....                         | Item |          |      |        |
| B3                                                                                                                                                                                 | Definitions<br>F:..... V:..... T:.....                                  | Item |          |      |        |
| B4                                                                                                                                                                                 | Requirements for construction and management<br>F:..... V:..... T:..... | Item |          |      |        |
| B4.1                                                                                                                                                                               | General<br>F:..... V:..... T:.....                                      | Item |          |      |        |
| B4.2                                                                                                                                                                               | Responsibilities for design and construction<br>F:..... V:..... T:..... | Item |          |      |        |
| B4.3                                                                                                                                                                               | Planning, programme and method statements<br>F:..... V:..... T:.....    | Item |          |      |        |
| Carried forward to collection                                                                                                                                                      |                                                                         |      |          | R    |        |

|       |                                                                        | UNIT | QUANTITY | RATE | AMOUNT |
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| B4.4  | Quantity assurance<br>F:..... V:..... T:.....                          | Item |          |      |        |
| B4.5  | Setting out<br>F:..... V:..... T:.....                                 | Item |          |      |        |
| B4.6  | Management and disposal of water<br>F:..... V:..... T:.....            | Item |          |      |        |
| B4.7  | Blasting<br>F:..... V:..... T:.....                                    | Item |          |      |        |
| B4.8  | Works adjacent to services and structures<br>F:..... V:..... T:.....   | Item |          |      |        |
| B4.9  | Management of the Works and site<br>F:..... V:..... T:.....            | Item |          |      |        |
| B4.10 | Earthworks<br>F:..... V:..... T:.....                                  | Item |          |      |        |
| B4.11 | Testing<br>F:..... V:..... T:.....                                     | Item |          |      |        |
| B4.12 | Materials, samples and fabrication drawings<br>F:..... V:..... T:..... | Item |          |      |        |
| B4.13 | Equipment<br>F:..... V:..... T:.....                                   | Item |          |      |        |
| B4.14 | Site establishment<br>F:..... V:..... T:.....                          | Item |          |      |        |
| B4.15 | Survey control<br>F:..... V:..... T:.....                              | Item |          |      |        |
| B4.16 | Temporary works<br>F:..... V:..... T:.....                             | Item |          |      |        |
|       | Carried forward to collection                                          |      |          | R    |        |

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| B4.17                                                                                                                              | Existing services<br>F:..... V:..... T:.....                                                      | Item |          |      |        |
| B4.18                                                                                                                              | Health and safety<br>F:..... V:..... T:.....                                                      | Item |          |      |        |
| B4.19                                                                                                                              | Environmental requirements<br>F:..... V:..... T:.....                                             | Item |          |      |        |
| B4.20                                                                                                                              | Alterations, additions, extensions and modifications to existing works<br>F:..... V:..... T:..... | Item |          |      |        |
| B4.21                                                                                                                              | Inspection of adjoining structures, services, buildings and property<br>F:..... V:..... T:.....   | Item |          |      |        |
| B4.22                                                                                                                              | Attendance on nominated and selected subcontractors<br>F:..... V:..... T:.....                    | Item |          |      |        |
| <b>SECTION C: SCOPE OF WORK in accordance with SANS 10403</b><br>(The reference to Clauses refer to Table B.1 of SANS 1921-1:2004) |                                                                                                   |      |          |      |        |
| C1                                                                                                                                 | Certification by recognised bodies - CLAUSE 4.4<br>F:..... V:..... T:.....                        | Item |          |      |        |
| C2                                                                                                                                 | Agrément certificates - CLAUSE 4.5<br>F:..... V:..... T:.....                                     | N/A  |          |      |        |
| C3                                                                                                                                 | Other services and facilities - CLAUSE 4.8<br>F:..... V:..... T:.....                             | Item |          |      |        |
| C4                                                                                                                                 | Recording of weather - CLAUSE 5.2<br>F:..... V:..... T:.....                                      | Item |          |      |        |
| C5                                                                                                                                 | Management meetings - CLAUSE 5.3<br>F:..... V:..... T:.....                                       | Item |          |      |        |
| C6                                                                                                                                 | Daily records CLAUSE 5.6<br>F:..... V:..... T:.....                                               | Item |          |      |        |
| C7                                                                                                                                 | Bond and guarantees - CLAUSE 5.7<br>F:..... V:..... T:.....                                       | Item |          |      |        |
| Carried forward to collection                                                                                                      |                                                                                                   |      |          | R    |        |

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| C8                                                                                | Permits - CLAUSE 5.9<br>F:..... V:..... T:.....                                                                                         | Item |          |      |        |
| C9                                                                                | Proof of compliance with the law - CLAUSE 5.10<br>F:..... V:..... T:.....                                                               | Item |          |      |        |
| <b>SECTION D: SPECIFICATION DATA ASSOCIATED WITH SANS 1921-1:2004 (Table A.1)</b> |                                                                                                                                         |      |          |      |        |
| D1                                                                                | Requirements for drawings, information and calculations for which the contractor is responsible CLAUSE 4.1.7<br>F:..... V:..... T:..... | Item |          |      |        |
| D2                                                                                | The responsibility strategy assigned to the contractor for the works CLAUSE 4.2.1<br>F:..... V:..... T:.....                            | Item |          |      |        |
| D3                                                                                | The planning, programme and method statements - CLAUSE 4.3<br>F:..... V:..... T:.....                                                   | Item |          |      |        |
| D4                                                                                | Samples of materials, workmanship and finishes - CLAUSE 4.12.1<br>F:..... V:..... T:.....                                               | Item |          |      |        |
| D5                                                                                | Fabrication drawings that the contractor is to provide and deliver to the employer - CLAUSE 4.12.2<br>F:..... V:..... T:.....           | Item |          |      |        |
| D6                                                                                | Office for the foreman CLAUSE 4.14.3<br>F:..... V:..... T:.....                                                                         | Item |          |      |        |
| D7                                                                                | Telephone - CLAUSE 4.14.3<br>F:..... V:..... T:.....                                                                                    | Item |          |      |        |
| D8                                                                                | Office for inspector of works - CLAUSE 4.14.3<br>F:..... V:..... T:.....                                                                | Item |          |      |        |
| D9                                                                                | Telephone in office for inspector of works - CLAUSE 4.14.3<br>F:..... V:..... T:.....                                                   | Item |          |      |        |
| D10                                                                               | Sheds - CLAUSE 4.14.3<br>F:..... V:..... T:.....                                                                                        | Item |          |      |        |
| Carried forward to collection                                                     |                                                                                                                                         |      |          | R    |        |

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| D11 | Provision and erection of signboards - CLAUSE 4.14.6<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                  | Item |          |      |        |
| D12 | Termination, diversion or maintenance of existing services - CLAUSE 4.17.1<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                            | Item |          |      |        |
| D13 | Services which are known to exist - CLAUSE 4.17.3<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                     | Item |          |      |        |
| D14 | Detection apparatus - CLAUSE 4.17.4<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                   | Item |          |      |        |
| D15 | Additional health and safety requirements - CLAUSE 4.18<br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                               | Item |          |      |        |
|     | <b>SECTION E: SPECIFIC PRELIMINARIES</b><br><u>Section E contains Specific Preliminary items which apply to this contract except where "N/A" (Not Applicable) appears against the item.</u>                                                                                                                                                                      |      |          |      |        |
| E1  | <b>PROPRIETARY BRANDED PRODUCTS</b><br><br>The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative.<br><br>F:..... V:..... T:.....                                             | Item |          |      |        |
| E2  | <b>OVERTIME</b><br><br>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Engineer/Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the Employer.<br><br>F:..... V:..... T:..... | Item |          |      |        |
| E3  | <b>AS BUILT DRAWINGS</b><br><br>The position of construction breaks and the extent of individual concrete pours are to be recorded by the Contractor on the Structural Engineer's drawings and are to be submitted, to the Engineer/Principal Agent and the Structural Engineer for their records.<br><br>F:..... V:..... T:.....                                | Item |          |      |        |
|     | Carried forward to collection                                                                                                                                                                                                                                                                                                                                    |      |          | R    |        |

| SECTION E: SPECIFIC PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE | AMOUNT |
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| E4                                | <b>SITE INSTRUCTIONS</b><br><br>Site Instructions issued on site are to be recorded in triplicate in a Site Instruction book which is to be maintained on site by the Contractor.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Item |          |      |        |
| E5                                | <b>LABOUR RECORD</b><br><br>At the end of each week the Contractor shall provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day.<br><br>F:..... V:..... T:.....<br><br><i>Note : In the event that the contractor fails to satisfy the requirements of this specification, the Employer (Head: Public Works) may apply any of the sanctions provided in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum per calendar day of which the required report has not been submitted.</i>                                                                                                                                                                                                           | Item |          |      |        |
| E6                                | <b>PLANT RECORD</b><br><br>At the end of each week the Contractor shall provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Item |          |      |        |
| E7                                | <b>NON CESSION OF MONIES</b><br><br>The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Item |          |      |        |
| E8                                | <b>SECTIONAL COMPLETION</b><br><br>When it is required that the contract be executed in sections or portions, the tenderer shall allow for all costs in this regard as no claim for additional costs will be entertained.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Item |          |      |        |
| E9                                | <b>LOCAL LABOUR</b><br><br>It is a general requirement of this contract that persons normally resident in the locality of the works (Local Labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate Labour not be available within the locality, others may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ Local Labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of Local Labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community.<br><br>F:..... V:..... T:..... | Item |          |      |        |
| Carried forward to collection     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          | R    |        |

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| E10 | <b>IMPORT PERMITS AND DUTIES</b><br><p>The responsibility for obtaining the necessary import permits shall rest with the successful Tenderer. No foreign exchange will be arranged or provided by the Administration.</p> <p>Tenderers are to allow in their tenders and pay the ordinary levy imposed on imported items in terms of item 196.10 of Part 8 of Schedule No. 1 of the Customs and Excise Act, 1964 with effect from 1 October 1989.</p> <p>F:..... V:..... T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Item |          |      |        |
| E11 | <b>CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)</b><br><p>Notwithstanding anything to the contrary contained in the GCC for Construction Works 2010 2nd Edition, this Contract shall only when the Construction Period exceeds 6 months and the Contract sum exceeds R1,000,000,00 be subject to the Contract Price Adjustment Provisions Indices Application Manual for use with P0151 indices (CPAP) (Revised 1 January 2013) as published by Statistics South Africa. Tenderers are advised that with reference to Clause 3.4.6 of the Contract Price Adjustment Provisions (CPAP) Indices Applications Manual, the Head: Public Works <b><u>will not accept the submission by Tenderers of lists of additional items.</u></b></p> <p>Where this contract is a Lump Sum contract, the contract will be subject to Contract Price Adjustment Provisions (CPAP) only where the contract period equals or exceeds 6 calendar months. The applicable work group shall be WG 180 for domestic buildings or WG 181 for commercial and industrial buildings.</p> <p>F:..... V:..... T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Item |          |      |        |
| E12 | <b>EPWP CONDITIONS AND SPECIFICATIONS</b><br><b>12.1 EMPLOYMENT TARGETS</b><br><b>E12.1 a Employment Targets</b><br><p>The contractor needs to provide a realistic estimate on the number of jobs that the project has the potential to create throughout the project duration as the project will be implemented using labour intensive construction methods on elements where it is economical and feasible for this construction method.</p> <p>No of jobs to be created = ...10.... [Contractor to fill in an estimated number]</p> <p>F:..... V:..... T:.....</p> <p><b>E12.1 b Employment requirements</b><br/> Tenderers are advised that this contract will be subject to the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment.<br/> Tenderers must allow for any costs for the employment of unskilled labour as per the requirements of the EPWP program;</p> <ol style="list-style-type: none"> <li>1. 55% of unskilled labour to be women</li> <li>2. 55% of unskilled labour to be youth aged between 18 and 35 years</li> <li>3. 2% of unskilled labour to be people living with disability</li> <li>4. 100% Unskilled labour utilised must reside within the boundaries of the Municipality Ward where this contract is executed, with preference to the local community closest or at the walking distance to the contract site. Wherever possible local skilled tradesmen are to be employed on this contract with the view to maximize utilization of local resources.</li> </ol> <p>F:..... V:..... T:.....</p> | Item |          |      |        |
|     | Carried forward to collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          | R    |        |

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|  | <p><b>E12.1 c Labour rate and payment intervals</b></p> <p>The contractor should ensure that labour rate paid to unskilled local labour is commensurate to the daily task. When determining the rate, consideration should be given to that EPWP beneficiaries are mostly bread winners in their families, as the program intends alleviating poverty. There should also be consideration that the labour rate promotes creation of expanded number of jobs created and person days of work.</p> <p>Contractors should make endeavours to ensure that labourers, particularly unskilled are remunerated on fortnight basis and prior notification be made should there be a shortfall on their wages.</p> <p>The labour rate for local unskilled shall also be determined in consideration of the location of the project, i.e. for projects implemented in urbanized municipalities will not be the same as that for rural municipalities.</p> <p>F:..... V:..... T:.....</p> | Item |          |      |        |
|  | <p><b>12.2 LABOUR INTENSIVE CONSTRUCTION METHOD</b></p> <p><b>E12.2 a Labour Intensive Construction (LIC) method</b></p> <p>On site there must a person(s) having competency in managing and implementing LIC methods.</p> <p>*Foreman @ NQF Level 4 the Unit Standard on Implementing LIC methods on site.</p> <p>*Site Agent/ Managers @ NQF level 5 the Unit Standard on Manage Labour-Intensive Skills Programme both must be CETA accredited</p> <p>F:..... V:..... T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Item |          |      |        |
|  | <p><b>E12.2 b Labour Intensive Construction Method</b></p> <p>Those parts of the contract to be constructed using Labour Intensive methods will be marked in the BoQ with letter LI (indicating Labour Intensive) against every item so designated. Such works will only be constructed using method so indicated.</p> <p>Reference to be made to Guidelines for the implementation of Labour Intensive Infrastructure projects under EPWP. "Scope of Work in Respect of Work Relating to the Expanded Public Works Programme (EPWP)"</p> <p>F:..... V:..... T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                       | Item |          |      |        |
|  | <p><b>E12.3 RECORD KEEPING</b></p> <p>12.3.1 Every employer must keep in the project site office the following minutes of site progress minutes; contractors' monthly site progress reports; accurately recorded attendance register; proof of payment as means to verify authenticity of data in the EPWP Beneficiary form submitted with payment certificates. Copies of submitted EPWP beneficiary data forms should also be kept in the site office.</p> <p>F:..... V:..... T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Item |          |      |        |
|  | <p>12.3.2 The employer must keep this record for a period of at least three (3) years after the completion of the project in his/her office as the project site office would have been relocated.</p> <p>This should be safely kept for job creation data verifications and periodical audits on projects conducted by National and Provincial Department of Public Works after one (1) or two (2) quarters of submitting captured EPWP Data to the National EPWP coordinating Department.</p> <p>F:..... V:..... T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Item |          |      |        |
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| <b>E1: EPWP REPORTING as per EPWP DATA FORM</b><br>At the end of each month as part of site progress report and to be attached to every contractors' progress payment certificate; the contractor shall provide the principal agent & Public Works with a written records, as per EPWP data form; which will be reflecting, beneficiaries full name & surname; ID No and job description of labour employed by main contractor and sub-contractors on site. At the end of each month the contractor must submit the following documents to be attached to the Progress payment certificate:<br>1. EPWP monthly data collection form<br>2. Worker monthly payment upload<br>3. Worker monthly proof of payment i.e<br>3.1 Acknowledgement of receipt of payment or<br>3.2 Payslips<br>3.3 Bank statement highlighted the workers paid<br>4. Worker monthly training form<br>5. Monthly attendance register<br>6. Certified copies of ID's (once off)<br>7. ID size photos (once off)<br>8. Proof of UIF<br>9. Proof of COIDA<br><br>F:..... V:..... T:.....<br><br><b>E12.5 EPWP PROMOTION</b><br><b>12.5.1 EPWP signage board</b><br>EPWP Program at the project level shall always be promoted through have the projects signage board that embrace EPWP logo at the bottom, correct measurement for this signage board will be provided by the project leader during the site handing over meeting. the standard "HELVETIVA MEDUIM " letters are to be used . Professional title to be 10 mm above line . Line thickness to be 8 mm thick . Space between bottom of the line and bottom of the lettering below the line has to be 100 mm. Letter sizes are as follows : Helvetica meduim 100 mm black upper case to be for project name and owner . Helvetica meduim 75mm black upper case only to be used for professional titles.Project name and owner shall be black lettering on white background.board sizes are as follows : Board to be minomum 2000mm from ground level and to be constructed from reinforced formed chromadek panels minimum 0,6mm thick chromadek. The contractor is responsible for ensuring that the project board remains neatly and safely erected for the full duration including maintenance period,after which the project board and post are to be dismantled and handed to the client in good order.<br><br>F:..... V:..... T:.....<br><br><b>12.5.2 Branding of labour apparel</b><br>Contractor & Sub-contractors' labourers shall be provided with EPWP branded Personal Protective Equipment (PPE), reflector vest with EPWP wording at the back is an ideal and cost effective means of promoting program on site.<br><br>The contractor is then advised to price for both item 17.5.1 and 17.5.2<br><br>F:..... V:..... T:..... | Item |          |      |        |
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| <p><b>E12.6 COMMUNITY LIAISON OFFICER (CLO)</b><br/> <b>UTILISATION OF A COMMUNITY LIAISON OFFICER</b><br/>           In addition to the requirements of Clause E9, contained in this document;<br/>           The Contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract</p> <p>In the interest of providing a sound service to both the community and the Contractor, a CLO may only manage one project at a given time.</p> <p>A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.</p> <p><b>Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:</b></p> <ol style="list-style-type: none"> <li>1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by contractor.</li> <li>2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor.</li> <li>3. Assisting the contractor by identifying areas of potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor.</li> <li>4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise.</li> <li>5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained.</li> <li>6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained</li> <li>7. Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications</li> </ol> |      |          |      |        |
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|  | <p>8. Listing the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.</p> <p>9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.</p> <p>10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.</p> <p>Tenderers are to price twice the rate of unskilled local labour rate against this item for any and all costs arising out of compliance with the foregoing and in the event of a Tenderer failing to price against this item or making inadequate financial provision against this item for compliance as aforesaid, then no claim for costs or additional cost incurred will be entertained by the Head: Works</p> <p>F:..... V:..... T:.....</p> <p><b>E12.7 SKILLS DEVELOPMENT ON SITE</b><br/>Contractor in conforming to the object of EPWP that its beneficiaries need to be capacitated with skills that will render them employable in the future. It is then the responsibility of the Contractor that mandatory life skills are provided to 100% of workforce on site and on the job training to labourers from whom the potential for further development has been identified. The latter is not mandatory to all as it covers technical skills.</p> <p>Contractor should also make provision for the possibility that there might be local youth that will need to be placed on the project with an intention to be provided support towards improving their level of competency and productivity.</p> <p>Contractor shall also provide all necessary on-the-job training to targeted labour to enable such labour to master and advance on techniques required to undertake the work in accordance with requirements of the contract in a manner that does not compromise workers health and safety.</p> <p>F:..... V:..... T:.....</p> <p><b>E12.8 LABOUR ONLY Sub Contracting for local emerging enterprises</b><br/>Tenderer's are advised that this contract is subject to the Expanded Public Works Programme (EPWP) and the following criteria will apply:</p> <p><u>African Equity Ownership</u></p> <p>a) The Tenderer is to allow for 5% of the total value of works to be undertaken by a Priority Population Group. This percentage excludes the costs of employing local unskilled labour. The allocation of this percentage from the Project, the screening of people, the selection of skills, will be for the Contractor to adjudicate.</p> <p>b) The Priority Population Group consists of women, youth and disabled people.</p> <p>c) The Contractor is to give first option for prospective PPG's from the surrounding areas of the Project. Should there be insufficient suitable people fitting the criteria of PPG's, the Contractor may hire people from further afield. This is to be done only after consultation with the Department of Works EPWP Co-ordinator and the Community Liaison Officer (CLO).</p> <p>d) A Mentor is to be employed by the Contractor, in consultation with the Department of Works for the purposes of quality control and liaison between the Contractor and the selected PPG's on site. The mentor will be responsible for ensuring an acceptable level of quality workmanship and that such work carried out by the PPG's is executed within the time frames stipulated.</p> <p>In so far as possible, the Contractor is encouraged to expand the PPG's skills, knowledge and performance levels.</p> <p>F:..... V:..... T:.....</p> | Item |          |      |        |
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|  | <p><b>TE</b> <b>ERER'S TO NOTE CONDITIONS</b></p> <p>a) The contract to be entered into between the Contractor and the PPG's will be a LABOUR ONLY sub-contract.</p> <p>b) The Contractor will be responsible for ensuring that all materials for use by the PPG's in the works are to be on site timeously. The Contractor shall liaise with The Mentor and PPG to determine the nature and extent of materials required and the lead time necessary.</p> <p>c) The Contractor shall be responsible for the overall programming of the Works and he is to allow for monitoring the PPG's programme and progress.</p> <p>d) In conjunction with the Mentor, he is to allow for the supervision and mentoring (where necessary) of the PPG to ensure quality and adherence to standard building practice</p> <p>e) The Contractor is to allow for extra storage facilities on site for the PPG's tools and equipment.</p> <p>f) Basic tools shall be provided by the PPG's and where these are not available; the Contractor will supply him with the necessary tools and equipment and deduct the costs thereof from the interim claims made by the PPG.</p> <p>g) Work requiring specialized tools will be provided free of charge by the Contractor with the provision that these be returned upon completion of the Work.</p> <p><b>CO-ORDINATION</b></p> <p>The Contractor is to co-ordinate the work of all the PPG's, Sub-Contractors and Nominated Sub- Contractors appointed direct by the Employer in such a manner and at all times as will suit the building programme and he is to allow adequate access, for the PPG's, where required, to carry out their work in an efficient manner as no claims for extras in this connection will be entertained.</p> <p>F:..... V:..... T:.....</p> <p><b>ATTENDANCE</b></p> <p>The Contractor may allow for attendance upon the PPG's concerned to execute the work. The Contractor is to allow the PPG's the use of any scaffolding belonging to him while it remains so erected on the site.</p> <p>Where scaffolding is necessary for the use by any PPG and the Contractor has not erected any for his own use or has removed same after his own use, the Contractor shall supply sufficient scaffolding to the PPG to be erected and dismantled by the PPG and returned to the Contractor.</p> <p>This attendance upon PPG's to execute the work is to include for the scaffolding provisions as aforesaid and, in addition, is to include for co-operating to the fullest extent with all the parties, attending on off-loading materials, providing suitable storage for tools and materials used by the PPG's, use of general facilities such as latrines, etc., supply and cost of power, lighting, water and the like.</p> <p>F:..... V:..... T:.....</p> <p><b>E12.9 EPWP CONTRACT FOR LABOUR</b></p> <p>It is compulsory that shortly after the contractor and or sub contractor has appointed local labour, the employment contract should be signed by both parties, prior to commencement with works on site. The employment contract forms part of the Ministerial Determination or from the regional EPWP officials. Each contract will lapse at the end of each financial year therefore requiring the Contractor to do a renewal of each contract should the need of employment still exist for that particular labourer.</p> <p>F:..... V:..... T:.....</p> | Item |          |      |        |
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| <p><b>E1. EPWP SCOPE of WORK</b></p> <p><b>Note:</b><br/>Contractors are to price any item on the Bill of Quantities having below, bearing in mind that they are regarded as main sources of job creation, whether sub contracted or undertaken by the main contractor.</p> <p>Elements on the scope of work where application of Labour Intensive Construction methods as will indicated with letters (LI) are regarded feasible are as follows;</p> <p>i) Excavating trenches for foundations and any other civil works with the depth not more than 1.5 m</p> <p>ii) All masonry works which include concrete mixing on site; brickwork; plastering; screed works; jointing; etc.</p> <p>iii) Painting, Plumbing, Ironmongery; roof cladding; glazing; tiling; carpentry; flooring; waterproofing; etc.</p> <p>F:..... V:..... T:.....</p> <p><b>Note:</b><br/>It is a general requirement of this contract that persons normally resident in the ward of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour not be available within the ward, others may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour (Local Sub-contractor(s); Skilled; Semi-Skilled and Unskilled). The contractor shall in consultation with the local community leaders with the purpose of negotiating with them regarding the utilization of local resources in the construction process. In this regard, the contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth as well as families declared as most indigent by War on Poverty/ Sukuma Sakhe program profiling process. The contractor should aim, in general, to maximise the involvement of the local community, however workers from other communities should not exceed 20% of all persons working on the project, where local employees possess skills at level of competency that meet contractors requirements.</p> <p><u>Payment for the labour-intensive component of the works</u><br/>Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.</p> <p><u>Linkage of payment for labour-intensive component of works to submission of project data</u><br/>The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.</p> <p><u>Applicable labour laws</u><br/>The current Ministerial Determination (also downloadable at <a href="http://www.epwp.gov.za">www.epwp.gov.za</a>) Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice , shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled or semi-skilled workers.</p> <p>F:..... V:..... T:.....</p> | Item |          |      |        |
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| E13   | <b>HIV/AIDS AWARENESS</b><br>Tenderers are to price against the following items for compliance with the SPECIFICATION FOR HIV/AIDS AWARENESS bound into this document (The clauses referred to are those of the Specification for HIV/AIDS)                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| E13.1 | Provide and maintain a condom dispenser in terms of Clause 5.1a)<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Item |          |      |        |
| E13.2 | Provide and maintain HIV/AIDS awareness posters terms of Clause 5.1b)<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Item |          |      |        |
| E13.3 | HIV /Aids Awareness Programme on Site for not less than 90% of workers inclusive of all direct and indirect costs;<br><br>Engage a qualified service provider as described in the scope of works to conduct an HIV Awareness Programme in terms of Clause 5.2.1a)<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                 | Item |          |      |        |
| E13.4 | Arrange for workers to attend the HIV Awareness Programme in terms of Clause 5.2.1b)<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Item |          |      |        |
| E13.5 | <b>Reporting</b><br><br>Prepare and attach to claims for payment a brief report in terms of Clause 5.3 (see also HIV/STI Compliance Report included with this document).<br><br>F:..... V:..... T:.....<br><i>Note: In the event that the contractor fails to satisfy the requirements of this specification, the employer (Head: Public Works) may apply any of the sanctions provided for in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum per calendar day of which the required reports has not been submitted.</i> | Item |          |      |        |
| E14   | <b>OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993</b><br>Tenderers are to allow for costs in providing a project specific ' Construction Phase Safety, Health and Environmental Plan' in accordance with "Section 2 - Specification Data associated with SANS 1921-1:2004" clause C4.18 in "Part C3 - Scope of Work"<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                           | Item |          |      |        |
| E15   | <b>NOTICE BOARD, SITE OFFICE, ETC.</b><br>Tenderers are to allow for the provision and removal of a project notice board and a site office in accordance with the Principal Agent's requirements.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                 | Item |          |      |        |
| E16   | <b>IMPORTED MATERIALS AND EQUIPMENT</b><br>Where imported items are listed in the tender documents, the tenderer shall provide all information called for, failing which the price of any such item, material or equipment shall be excluded from currency fluctuations. ( <b>Refer to T2.14 - Schedule of Imported Materials and Equipment .</b> )<br><br>F:..... V:..... T:.....                                                                                                                                                                                               | Item |          |      |        |
| E17   | <b>CONTRACT DOCUMENTS</b><br>The drawings issues with these Tender documents do not comprise the complete set but serves as a guide only for tendering purposes and for indicating the scope of works to enable the Tenderer to acquaint him with the nature and extent of the works and the manner in which they are to be executed.<br><br>Should any part of the drawings not be clearly legible to the Tenderer he shall, before submitting his Tender, obtain clarification in writing from the principal agent.<br><br>F:..... V:..... T:.....                             | Item |          |      |        |
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| E18 | <b>GENERAL PREAMBLES</b><br>The Document Preambles will be the "ASAQS Model Preambles for Trades – 2008" and is obtainable from the various Regional Office's of the Department of Public Works and shall be read in conjunction with the Bills of Quantities and be referred to for the full descriptions of work to be done and materials to be used.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                            | Item |          |      |        |
| E19 | <b>TRADE NAMES</b><br>Wherever a Trade Name for any product has been described in the Bills of Quantities the Tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the Principal Agent being obtained prior to the closing date for submission of Tenders.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                             | Item |          |      |        |
| E20 | <b>EXISTING PREMISES OCCUPIED</b><br>Refer to Scope of Works Part C3 of this Tender Document for information on the occupation of existing buildings.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Item |          |      |        |
| E21 | <b>INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT</b><br>The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect his work.<br><br>Should any inaccurate or defective work be found, the contractor shall immediately notify the principal agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work.<br><br>F:..... V:..... T:..... | Item |          |      |        |
| E22 | <b>VIEWING THE SITE IN SECURITY AREAS</b><br>If the site is situated in a security area and the Tenderer must arrange with the Authorities to obtain permission to enter the site for Tendering purposes.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                                                                                                                                                                          | Item |          |      |        |
| E23 | <b>COMMENCEMENT OF WORKS IN SECURITY AREAS</b><br>If the works falls within a security area, the contractor must arrange with the Authorities and give the necessary notices before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                           | Item |          |      |        |
| E24 | <b>ENTRANCE PERMITS TO SECURITY AREAS</b><br>If the works fall within a security area, the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under control of the Authority.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                                                  | Item |          |      |        |
|     | Carried forward to collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          | R    |        |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE | AMOUNT |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| E25                           | <b>SECURITY CHECK OF PERSONNEL</b><br>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified.<br><br>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works.<br><br>F:..... V:..... T:.....                                                                                                                                                                                                                | Item |          |      |        |
| E26                           | <b>PROHIBITION ON TAKING PHOTOGRAPHS</b><br>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking photographs, except when authorised thereto by or on behalf of the Minister.<br><br>The same prohibition is also applicable to all Correctional Institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959.<br><br>F:..... V:..... T:.....                                                                                                                                                                                 | Item |          |      |        |
| E27                           | <b>Management of Water</b> <span style="float: right;">Water</span><br>for Construction purposes must be obtained from alternative water sources (i.e. supply other than water that is produced and distributed by a regulated water service authority from a licenced water treatment works for human consumption), eg dams, rivers, boreholes, springs, rainwater harvesting, recycled sewerage water, etc. The alternative water source shall not be of an inferior quality / standard than that required for construction purposes. The client reserves the right through his agents to test such supplies or request certificates confirming the grade and nature of the water supply. Relevant knowledge of the respective area will be an advantage. |      |          |      |        |
| Carried forward to collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          | R    |        |

**SECTION 1**



**SUMMARY – PRELIMINARY & GENERAL**

| Collection                       | Page No. | Amount |  |
|----------------------------------|----------|--------|--|
|                                  | 1        | R      |  |
|                                  | 2        | R      |  |
|                                  | 3        | R      |  |
|                                  | 4        | R      |  |
|                                  | 5        | R      |  |
|                                  | 6        | R      |  |
|                                  | 7        | R      |  |
|                                  | 8        | R      |  |
|                                  | 9        | R      |  |
|                                  | 10       | R      |  |
|                                  | 11       | R      |  |
|                                  | 12       | R      |  |
|                                  | 13       | R      |  |
|                                  | 14       | R      |  |
|                                  | 15       | R      |  |
|                                  | 16       | R      |  |
|                                  | 17       | R      |  |
| Carried forward to Final Summary |          | R      |  |

Section No. 1  
Preliminary & General  
Summary



**KWAZULU-NATAL PROVINCE**  
**PUBLIC WORKS & INFRASTRUCTURE**  
REPUBLIC OF SOUTH AFRICA

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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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## **PART C2.3 BILL OF QUANTITIES**

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Rate | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL No. 1</u></b></p> <p><b><u>ALTERATIONS AND DEMOLITIONS (PIT TOILETS) (CPAP WORK GROUP NO. 102 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | R    |        |
|         | <p>Section No. 2</p> <p>Bill No. 1</p> <p>DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |        |

**Brought Forward**

Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

R

**Carried Forward**

Section No. 2  
Bill No. 1  
DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

R

**Brought Forward**

R

The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing

Taking Out and Removal of Asbestos

Taking out and removing asbestos roof, gutters, underlay, fibreglass, downpipes, ect. must be in strict accordance with health and occupational safety regulations and a specialist firm must be contracted to dispose of the material and the required asbestos safe disposal certificates must be provided after disposal to the Principal Agent

**TEMPORARY BARRIERS, SCREENS, ETC**

Temporary barriers, screens, etc including removal

- |   |                                                                                                                                                                               |   |     |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| 1 | Dust screen 1.8m high, between concrete floor and ceiling, of suitable timber framing with 375 micron polyethylene sheeting stapled on one side, including corners, ends, etc | m | 180 |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|

**REMOVAL OF EXISTING WORK**

Breaking up and removing unreinforced concrete including cart away from site

- |   |                          |    |    |
|---|--------------------------|----|----|
| 2 | 150mm Thick surface beds | m2 | 80 |
|---|--------------------------|----|----|

**Carried Forward**

R

Section No. 2  
Bill No. 1  
DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP  
**KHANYISA SECONDARY SCHOOL**  
**WIMS: 065544**

| Brought Forward                                                                                                           |                                                                 |    | R   |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----|-----|
| <u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>                     |                                                                 |    |     |
| 3                                                                                                                         | 150mm Thick surface beds                                        | m2 | 100 |
| 4                                                                                                                         | Circular concrete water tanks 2 meter diameter and cart of site | No | 10  |
| 5                                                                                                                         | Pre-cast concrete toilet and cart of site                       | No | 10  |
| <u>Breaking down and removing brickwork etc including cart away from site</u>                                             |                                                                 |    |     |
| 6                                                                                                                         | Half brick walls                                                | m2 | 89  |
| 7                                                                                                                         | One brick walls                                                 | m2 | 20  |
| <u>Breaking down and removing blockwork, etc including cart away from site</u>                                            |                                                                 |    |     |
| 8                                                                                                                         | Blockwork in beamfilling                                        | m2 | 30  |
| 9                                                                                                                         | Block walls                                                     | m2 | 112 |
| Carried Forward                                                                                                           |                                                                 |    | R   |
| Section No. 2<br>Bill No. 1<br>DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                 |    |     |

| Brought Forward                                                                                                                                    |                                                                                          |    | R   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----|-----|
| <u>Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)</u>     |                                                                                          |    |     |
| 10                                                                                                                                                 | Timber single door and frame not exceeding 2,5m <sup>2</sup>                             | No | 10  |
| 11                                                                                                                                                 | Steel single gate and frame 920 x 2100mm high overall                                    | No | 2   |
| 12                                                                                                                                                 | Timber single door and steel frame not exceeding 2,5m <sup>2</sup>                       | No | 18  |
| 13                                                                                                                                                 | Glazed steel window 500mm X 500mm                                                        | No | 10  |
| <u>Taking down and removing roofs, floors, panelling ceilings, partitions, etc completely (new work elsewhere measured) including carting away</u> |                                                                                          |    |     |
| 14                                                                                                                                                 | Corrugated roof sheeting including timber roof trusses, purlins, underlay, etc, complete | m2 | 85  |
| 15                                                                                                                                                 | Gypsum plasterboard ceilings, including timber bandering, cornices, etc                  | m2 | 41  |
| 16                                                                                                                                                 | Remove 76 x 50 timber purlins from trusses to remain                                     | m  | 75  |
| 17                                                                                                                                                 | Fibre cement fascia boards and fixings                                                   | m  | 150 |
| 18                                                                                                                                                 | Fibre cement barge boards and fixings                                                    | m  | 50  |
| 19                                                                                                                                                 | uPVC rainwater gutters and fixings                                                       | m  | 200 |
| 20                                                                                                                                                 | uPVC rainwater downpipes and fixings                                                     | m  | 80  |
| Carried Forward                                                                                                                                    |                                                                                          |    | R   |
| Section No. 2<br>Bill No. 1<br>DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                          |                                                                                          |    |     |

| Brought Forward                                                                                                                                                                                            |                                                                                                                   |    | R  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----|----|
| <u>Taking out and removing ironmongery</u>                                                                                                                                                                 |                                                                                                                   |    |    |
| 21                                                                                                                                                                                                         | Mortice lockset from timber door                                                                                  | No | 13 |
| 22                                                                                                                                                                                                         | Door closer from timber door and frame                                                                            | No | 17 |
| 23                                                                                                                                                                                                         | Toilet paper holder from wall                                                                                     | No | 6  |
| <u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>                                        |                                                                                                                   |    |    |
| 24                                                                                                                                                                                                         | 22mm Granolithic from floors                                                                                      | m2 | 60 |
| <u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u> |                                                                                                                   |    |    |
| 25                                                                                                                                                                                                         | Stainless steel wash hand basin                                                                                   | No | 5  |
| 26                                                                                                                                                                                                         | Vitreous china wash hand basin                                                                                    | No | 1  |
| 27                                                                                                                                                                                                         | Vitreous china wall hung urinal with flush valve and flush pipe                                                   | No | 1  |
| 28                                                                                                                                                                                                         | Stainless steel slab urinal 2800 x 1200mm high, including breaking up and removing 75mm wide concrete urinal step | No | 1  |
| 29                                                                                                                                                                                                         | uPVC piping not exceeding 50mm diameter including fixings                                                         | m  | 10 |
| 30                                                                                                                                                                                                         | uPVC piping exceeding 100mm and not exceeding 150mm diameter including fixings                                    | m  | 10 |
| Carried Forward                                                                                                                                                                                            |                                                                                                                   |    | R  |
| Section No. 2<br>Bill No. 1<br>DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                  |                                                                                                                   |    |    |

| Brought Forward                                            |                                                                 |        | R         |
|------------------------------------------------------------|-----------------------------------------------------------------|--------|-----------|
| <u>Taking out/off and removing glass and mirrors</u>       |                                                                 |        |           |
| 31                                                         | Mirror 300 x 500mm high from wall                               | No 1   |           |
| <u>Cart away from site</u>                                 |                                                                 |        |           |
| 32                                                         | Cart away all rubble to nearest dump site                       | m3 100 |           |
| <b><u>DESLUDGING OF EXISTING PITS AND SEPTIC TANKS</u></b> |                                                                 |        |           |
| 33                                                         | Desludge existing pits and fill holes with stock pile materials | Item   | 70,000.00 |
| <b>Carried Forward to Summary of Section No. 2</b>         |                                                                 |        | R         |
| Section No. 2                                              |                                                                 |        |           |
| Bill No. 1                                                 |                                                                 |        |           |
| DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP              |                                                                 |        |           |
| KHANYISA SECONDARY SCHOOL                                  |                                                                 |        |           |
| WIMS: 065544                                               |                                                                 |        |           |

| Item No |                                                                                                                                          | Quantity | Rate | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>SECTION No. 2</u></b>                                                                                                              |          |      |        |
|         | <b><u>BILL No. 2</u></b>                                                                                                                 |          |      |        |
|         | <b><u>NEW WORK TO EXISTING BUILDINGS (PIT TOILETS)</u></b>                                                                               |          |      |        |
|         | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition)                      |          |      |        |
|         | <b><u>MASONRY (CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u></b>                                                                  |          |      |        |
|         | <b><u>SUPERSTRUCTURE BLOCKWORK</u></b>                                                                                                   |          |      |        |
|         | <u>Blockwork of M190 cement blocks in class II mortar</u>                                                                                |          |      |        |
| 1       | Block wall                                                                                                                               | m2       | 20   |        |
|         | <b><u>BLOCKWORK SUNDRIES</u></b>                                                                                                         |          |      |        |
|         | <u>2.5mm Galvanised brick reinforcement</u>                                                                                              |          |      |        |
| 2       | 150mm Wide reinforcement built in horizontally                                                                                           | m        | 100  |        |
|         | <b><u>BUILDING UP OPENINGS</u></b>                                                                                                       |          |      |        |
|         | <u>Brickwork in NFP bricks in class II mortar in building up openings</u>                                                                |          |      |        |
| 3       | Half brick walls                                                                                                                         | m2       | 40   |        |
| 4       | One brick walls                                                                                                                          | m2       | 28   |        |
|         | <b>Carried Forward</b>                                                                                                                   |          | R    |        |
|         | Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b> |          |      |        |

| Brought Forward                                                                                                                                                                             |                                                         |    | R  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----|----|
| <u>Brickwork in NFP bricks in class II mortar in building up openings, including bonding new to existing and making good cement plaster on both sides (making good paintwork elsewhere)</u> |                                                         |    |    |
| 5                                                                                                                                                                                           | Opening 1 x 2,1m high overall in 220 brick wall         | No | 2  |
| <u>Sundries</u>                                                                                                                                                                             |                                                         |    |    |
| 6                                                                                                                                                                                           | Cutting toothings and bonding new brickwork to existing | m2 | 25 |
| <b><u>MAKING GOOD OF FINISHES ETC</u></b>                                                                                                                                                   |                                                         |    |    |
| <u>Making good cement screeds</u>                                                                                                                                                           |                                                         |    |    |
| 7                                                                                                                                                                                           | 30mm Thick on floors in patches                         | m2 | 50 |
| 8                                                                                                                                                                                           | Floors where block walls removed                        | m  | 50 |
| Carried Forward                                                                                                                                                                             |                                                         |    | R  |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b>                                                    |                                                         |    |    |

| Brought Forward                                                                                                                                                                  |                                                                                                                                                       |    | R    |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|-----------|
|                                                                                                                                                                                  | <u>Making good internal cement plaster</u>                                                                                                            |    |      |           |
| 9                                                                                                                                                                                | Walls in patches                                                                                                                                      | m2 | 49   |           |
|                                                                                                                                                                                  | <u>Removal of rubble and cart away to a dump site</u>                                                                                                 |    |      |           |
| 10                                                                                                                                                                               | General building cleaning, cutting and clearing grass and minor bushes                                                                                |    | Item | 20,000.00 |
|                                                                                                                                                                                  | <u>Making good metal work</u>                                                                                                                         |    |      |           |
| 11                                                                                                                                                                               | Mechanical sand down and repaint steel burglar bars                                                                                                   | m2 | 23   |           |
| <b><u>ROOF COVERINGS, ETC.(CPAP WORK GROUP NO. 125 UNLESS OTHERWISE STATED)</u></b>                                                                                              |                                                                                                                                                       |    |      |           |
| <b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>                                                                                                                            |                                                                                                                                                       |    |      |           |
| <u>0.58mm Colorbond IBR profile sheeting, colour one side fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u> |                                                                                                                                                       |    |      |           |
| 12                                                                                                                                                                               | Roof covering with pitch not exceeding 25 degrees                                                                                                     | m2 | 50   |           |
| 13                                                                                                                                                                               | Standard galvanised ridge capping (550mm girth) screwed through sheeting to purlins                                                                   | m  | 10   |           |
| 14                                                                                                                                                                               | Cover flashings 100mm girth                                                                                                                           | m  | 10   |           |
| 15                                                                                                                                                                               | Sondor IBR pattern metal polyclosures to underside of ridge capping                                                                                   | m  | 20   |           |
|                                                                                                                                                                                  | <u>Polycarbonate translucent IBR shape roof sheeting</u>                                                                                              |    |      |           |
| 16                                                                                                                                                                               | Roof covering with pitch not exceeding 25 degrees                                                                                                     | m2 | 20   |           |
| <b><u>ROOF AND WALL INSULATION</u></b>                                                                                                                                           |                                                                                                                                                       |    |      |           |
| <u>"Sisalation FR430" Heavy Industrial Grade Aluminum Foil based insulation</u>                                                                                                  |                                                                                                                                                       |    |      |           |
| 17                                                                                                                                                                               | Insulation laid taut over purlins (at approximately 450mm centres) and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 50   |           |
| Carried Forward                                                                                                                                                                  |                                                                                                                                                       |    | R    |           |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                       |                                                                                                                                                       |    |      |           |

Brought Forward

R

**CARPENTRY AND JOINERY (CPAP WORK  
GROUP NO. 126 UNLESS OTHERWISE  
STATED)**

**ROOFS ETC**

**PREFABRICATED TIMBER ROOF TRUSSES, ETC**

NOTE: Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members). The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is IBR profiled metal sheeting colour one side on 50 x 76mm purlins. Ceilings are nailed gypsum plasterboard on bracker. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences.

**Plate nailed timber roof truss construction**

- 18 Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 45m<sup>2</sup> (on flat floor area inclusive of overhangs, etc.) - existing toilet block

Item

- 19 Allowance for the issue of TR1 and TR2 certificates after completion of entire roof installation, signed by a competent person

Item

**ROOFS ETC**

**Sawn softwood**

- |    |                               |   |    |
|----|-------------------------------|---|----|
| 20 | 38 x 114mm Bolted wall plates | m | 50 |
| 21 | 76 x 50mm Cross bracing       | m | 10 |
| 22 | 76 x 50mm Purlins             | m | 60 |

Carried Forward

R

Section No. 2

Bill No. 2

ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                                                                                            |                                                                                                                                                                                    |    | R   |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 23                                                                                                                         | 76 x 114mm False timber rafter fixed onto truss for barge boards                                                                                                                   | m  | 30  |
| <b><u>EAVES, VERGES, ETC</u></b>                                                                                           |                                                                                                                                                                                    |    |     |
| <u>Pressed Nutec or other approved fibre cement boards</u>                                                                 |                                                                                                                                                                                    |    |     |
| 24                                                                                                                         | 12mm x 225mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers                                                                   | m  | 100 |
| 25                                                                                                                         | 10 x 80 x 200mm Barge boards including H profile jointing strips                                                                                                                   | m  | 110 |
| <b><u>DOORS, ETC</u></b>                                                                                                   |                                                                                                                                                                                    |    |     |
| <u>Wrought Meranti or other approved doors</u>                                                                             |                                                                                                                                                                                    |    |     |
| 26                                                                                                                         | 40mm Framed, ledged and braced battened door size 813 x 2032mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces | No | 10  |
| <b><u>IRONMONGERY(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u></b>                                                 |                                                                                                                                                                                    |    |     |
| <b><u>HINGES, BOLTS, ETC.</u></b>                                                                                          |                                                                                                                                                                                    |    |     |
| <u>"Union" or other approved</u>                                                                                           |                                                                                                                                                                                    |    |     |
| 27                                                                                                                         | Solid Art 294 WC or other equal and approved anodised aluminium mortice indicator bolt                                                                                             | No | 10  |
| <b><u>LOCKS</u></b>                                                                                                        |                                                                                                                                                                                    |    |     |
| <b><u>"Dorma" or other approved</u></b>                                                                                    |                                                                                                                                                                                    |    |     |
| 28                                                                                                                         | "DRR-SS-012" 102 x 75 x 3mm Stainless steel rising butt hinge                                                                                                                      | No | 20  |
| <u>"Union" or other approved</u>                                                                                           |                                                                                                                                                                                    |    |     |
| 29                                                                                                                         | " 2261-76SS" Four lever lockset                                                                                                                                                    | No | 4   |
| <b><u>LETTERS, NAMEPLATES, ETC.</u></b>                                                                                    |                                                                                                                                                                                    |    |     |
| Carried Forward                                                                                                            |                                                                                                                                                                                    |    | R   |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                    |    |     |

| Brought Forward                                                                                                           |                                                                                                                                                                                                                                                                                                |    | R  |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|                                                                                                                           | <u>Signage</u>                                                                                                                                                                                                                                                                                 |    |    |
| 30                                                                                                                        | 200 x 250mm Pressed aluminium with male, female or paraplegic symbol fixed to brickwork with 6 no. "Hilti" nail anchors                                                                                                                                                                        | No | 4  |
|                                                                                                                           | <b><u>METALWORK(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u></b>                                                                                                                                                                                                                       |    |    |
|                                                                                                                           | <b><u>WELDED GALVANISED STEEL SCREENS, GATES, ETC.</u></b>                                                                                                                                                                                                                                     |    |    |
|                                                                                                                           | <u>Screens and gates</u>                                                                                                                                                                                                                                                                       |    |    |
| 31                                                                                                                        | Single gate size 877 x 2250mm high of 40 x 60 x 3mm rectangular tubing with 12mm diameter steel rods at 110mm centre and 40 x 6mm horizontal support flat bars fixed with hinges to steel frame of 45 x 45 x 3mm rectangular tubing fixed to walls with bolts and lugs including padlock plate | No | 4  |
|                                                                                                                           | <b><u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u></b>                                                                                                                                                                                                                                     |    |    |
|                                                                                                                           | <u>1.2mm Rebated frames suitable for 90mm block walls</u>                                                                                                                                                                                                                                      |    |    |
| 32                                                                                                                        | Frame for door 813 x 2032mm high                                                                                                                                                                                                                                                               | No | 4  |
|                                                                                                                           | <u>1.2mm Rebated frames suitable for half brick wall</u>                                                                                                                                                                                                                                       |    |    |
| 33                                                                                                                        | Frame for door 762 x 1932mm high                                                                                                                                                                                                                                                               | No | 10 |
|                                                                                                                           | <b><u>PLASTERING(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u></b>                                                                                                                                                                                                                      |    |    |
|                                                                                                                           | <b><u>SCREEDS</u></b>                                                                                                                                                                                                                                                                          |    |    |
|                                                                                                                           | <u>Screeds steel trowelled on concrete</u>                                                                                                                                                                                                                                                     |    |    |
| 34                                                                                                                        | Average 50mm thick on floors to falls                                                                                                                                                                                                                                                          | m2 | 30 |
|                                                                                                                           | <b><u>INTERNAL PLASTER</u></b>                                                                                                                                                                                                                                                                 |    |    |
| Carried Forward                                                                                                           |                                                                                                                                                                                                                                                                                                |    | R  |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                                                                                                |    |    |

| Brought Forward                               |                                                                                                                                                                                         |    |     | R |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---|
|                                               | <u>Cement plaster on blockwork</u>                                                                                                                                                      |    |     |   |
| 35                                            | On walls                                                                                                                                                                                | m2 | 50  |   |
|                                               | <b><u>EXTERNAL PLASTER</u></b>                                                                                                                                                          |    |     |   |
|                                               | <u>Cement plaster on blockwork</u>                                                                                                                                                      |    |     |   |
| 36                                            | On walls                                                                                                                                                                                | m2 | 60  |   |
|                                               | <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                                                                     |    |     |   |
|                                               | <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148</u></b>                                                                                                                                     |    |     |   |
|                                               | <b><u>UNLESS OTHERWISE STATED)</u></b>                                                                                                                                                  |    |     |   |
|                                               | <b><u>RAINWATER DISPOSAL</u></b>                                                                                                                                                        |    |     |   |
|                                               | <b><u>0.7mm Baked Enamel on aluminium gutter system in</u></b>                                                                                                                          |    |     |   |
|                                               | <b><u>continuous lengths including hail brackets</u></b>                                                                                                                                |    |     |   |
| 37                                            | 150 x 150mm Ogee eaves gutters                                                                                                                                                          | m  | 140 |   |
| 38                                            | Extra over gutters for outlet for stop ends                                                                                                                                             | No | 24  |   |
|                                               | <b><u>0.6mm Thick aluminium down pipes with white</u></b>                                                                                                                               |    |     |   |
|                                               | <b><u>finish:</u></b>                                                                                                                                                                   |    |     |   |
| 39                                            | 100mm Diameter rainwater downpipes secured to walls with brackets                                                                                                                       | m  | 64  |   |
| 40                                            | Extra over 100mm rainwater pipe for shoe                                                                                                                                                | No | 64  |   |
| 41                                            | Extra over 100mm rainwater pipe for bend                                                                                                                                                | No | 24  |   |
| 42                                            | Extra over 150mm gutter for swan neck                                                                                                                                                   | No | 64  |   |
|                                               | <b><u>SANITARY FITTINGS</u></b>                                                                                                                                                         |    |     |   |
|                                               | <u>"Atlas Plastics (Pty) Ltd" or other approved</u>                                                                                                                                     |    |     |   |
| 43                                            | Atlas Plastics "Aquarius Close Coupled Toilet" (code 570AP) colour Granite with seat, overall size 416 x 690 x 768mm high, with foot of pan grouted to the floor with 1:3 cement mortar | No | 10  |   |
| Carried Forward                               |                                                                                                                                                                                         |    |     | R |
| Section No. 2                                 |                                                                                                                                                                                         |    |     |   |
| Bill No. 2                                    |                                                                                                                                                                                         |    |     |   |
| ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET |                                                                                                                                                                                         |    |     |   |
| KHANYISA SECONDARY SCHOOL                     |                                                                                                                                                                                         |    |     |   |
| WIMS: 065544                                  |                                                                                                                                                                                         |    |     |   |

| Brought Forward                                                                                                           |                                                                                                                                                                                                                                                                                                                       |    | R  |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 44                                                                                                                        | Atlas Plastics "Bambi P-Trap" (Code 625AP) colour Granite with flap, overall size 282 x 360 x 300mm high, with foot of pan grouted to the floor with 1:3 cement mortar including 9 litre pull and release dual flush cistern (Code 526AP) with Granite colour, plugged and screwed to the wall with galvanised screws | No | 5  |
| 45                                                                                                                        | Atlas Plastics "Christy" (Code 945AP) wash hand basin with splashback, colour Granite, overall size 580 x 410mm wide with 2 tap holes and 40mm waste outlet, plugged and screwed to wall with galvanised screws and brackets                                                                                          | No | 5  |
| 46                                                                                                                        | Atlas Plastics "30 Litre Wash Trough" (Code 366AP) colour Granite (Code: 101133), overall size 528 x 412mm wide with 40mm waste outlet, plugged and screwed to the wall with galvanised screws and fixing brackets                                                                                                    | No | 2  |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                           |                                                                                                                                                                                                                                                                                                                       |    |    |
| <u>"Cobra Watertech" or other approved</u>                                                                                |                                                                                                                                                                                                                                                                                                                       |    |    |
| 47                                                                                                                        | 15mm Chromium plated 'Star 136-15' stopcock                                                                                                                                                                                                                                                                           | No | 6  |
| 48                                                                                                                        | 15mm Chromium plated 'Star 106-15' basin bibtap                                                                                                                                                                                                                                                                       | No | 6  |
| <b><u>SANITARY PLUMBING</u></b>                                                                                           |                                                                                                                                                                                                                                                                                                                       |    |    |
| <u>uPVC pipes</u>                                                                                                         |                                                                                                                                                                                                                                                                                                                       |    |    |
| 49                                                                                                                        | 50mm Pipes                                                                                                                                                                                                                                                                                                            | m  | 70 |
| 50                                                                                                                        | 50mm Pipes chased into brickwork                                                                                                                                                                                                                                                                                      | m  | 6  |
| 51                                                                                                                        | 110mm Pipes                                                                                                                                                                                                                                                                                                           | m  | 5  |
| <u>Extra over uPVC pipes for fittings</u>                                                                                 |                                                                                                                                                                                                                                                                                                                       |    |    |
| 52                                                                                                                        | 50mm Bend                                                                                                                                                                                                                                                                                                             | No | 10 |
| 53                                                                                                                        | 110mm Bend                                                                                                                                                                                                                                                                                                            | No | 12 |
| 54                                                                                                                        | 50mm Junction                                                                                                                                                                                                                                                                                                         | No | 8  |
| Carried Forward                                                                                                           |                                                                                                                                                                                                                                                                                                                       |    | R  |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                                                                                                                       |    |    |

| Brought Forward                                                                                                            |                                                                                                      |    | R  |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----|----|
| 55                                                                                                                         | 110mm Junction                                                                                       | No | 6  |
| 56                                                                                                                         | 50mm Access bend                                                                                     | No | 4  |
| 57                                                                                                                         | 110mm Air vent cowl                                                                                  | No | 7  |
| <b><u>TRAPS ETC</u></b>                                                                                                    |                                                                                                      |    |    |
| <u>"Cobra Watertech" or other approved rubber traps</u>                                                                    |                                                                                                      |    |    |
| 58                                                                                                                         | 32 x 40mm Butyl rubber P-trap jointed to waste outlet fitting and to 50mm uPVC pipe including clamps | No | 5  |
| <b><u>WATER SUPPLIES</u></b>                                                                                               |                                                                                                      |    |    |
| 59                                                                                                                         | Excavation in earth not exceeding 1m deep for pipe trenches                                          | m3 | 6  |
| 60                                                                                                                         | Backfilling to pipe trenches                                                                         | m3 | 5  |
| <u>Class 10 HDPe type IV pipes</u>                                                                                         |                                                                                                      |    |    |
| 61                                                                                                                         | 15mm Pipes                                                                                           | m  | 20 |
| 62                                                                                                                         | 15mm Pipes chased to brickwork                                                                       | m  | 6  |
| 63                                                                                                                         | 22mm Pipes                                                                                           | m  | 30 |
| 64                                                                                                                         | 22mm Pipes chased into brick walls                                                                   | m  | 6  |
| 65                                                                                                                         | 22mm Pipes laid in and including trenches not exceeding 1m deep                                      | m  | 50 |
| 66                                                                                                                         | 28mm pipes                                                                                           | m  | 50 |
| Carried Forward                                                                                                            |                                                                                                      |    | R  |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                      |    |    |

| Brought Forward                                                                                                                                                                                    |                                                                       |    |      | R |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----|------|---|
| <u>Extra over Class 10 HDPe type IV pipes for fittings</u>                                                                                                                                         |                                                                       |    |      |   |
| 67                                                                                                                                                                                                 | 15mm Fittings                                                         | No | 15   |   |
| 68                                                                                                                                                                                                 | 28mm Fittings                                                         | No | 5    |   |
| 69                                                                                                                                                                                                 | 22mm Fittings                                                         | No | 5    |   |
| 70                                                                                                                                                                                                 | 22mm Reducer                                                          | No | 10   |   |
| 71                                                                                                                                                                                                 | 22mm Bend                                                             | No | 6    |   |
| <u>TESTING</u>                                                                                                                                                                                     |                                                                       |    |      |   |
| 72                                                                                                                                                                                                 | Allow for testing the whole of the sanitary plumbing and water supply |    | Item |   |
| <u>GLAZING(CPAP WORK GROUP NO. 150 UNLESS OTHERWISE STATED)</u>                                                                                                                                    |                                                                       |    |      |   |
| <u>GLAZING TO STEEL WITH PUTTY</u>                                                                                                                                                                 |                                                                       |    |      |   |
| <u>6mm Thick obscure safety glass</u>                                                                                                                                                              |                                                                       |    |      |   |
| 73                                                                                                                                                                                                 | Panes exceeding 0,1m2 and not exceeding 0,5m2                         | m2 | 5    |   |
| <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>                                                                                                                                                          |                                                                       |    |      |   |
| <u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in blockwork or concrete</u> |                                                                       |    |      |   |
| 74                                                                                                                                                                                                 | Mirror 450 x 600mm high                                               | No | 4    |   |
| <u>PAINTWORK(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u>                                                                                                                                  |                                                                       |    |      |   |
| <u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>                                                                                                                                                    |                                                                       |    |      |   |
| <u>"PLASCON" OR OTHER EQUAL AND APPROVED</u>                                                                                                                                                       |                                                                       |    |      |   |
| <u>ON INTERNAL FLOATED PLASTER SURFACES</u>                                                                                                                                                        |                                                                       |    |      |   |
| Carried Forward                                                                                                                                                                                    |                                                                       |    |      | R |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                          |                                                                       |    |      |   |

| Brought Forward                                                                                                            |                                                                                                                                                                                                            |    | R  |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|                                                                                                                            | Prepare and brush surface to remove all loose contaminants and apply one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use.                                   |    |    |
| 75                                                                                                                         | On plastered walls                                                                                                                                                                                         | m2 | 20 |
|                                                                                                                            | <b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>                                                                                                                                                         |    |    |
|                                                                                                                            | Prepare and brush surface to remove all loose contaminants and apply one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for exterior use.                                   |    |    |
| 76                                                                                                                         | On plastered walls                                                                                                                                                                                         | m2 | 80 |
|                                                                                                                            | <b><u>PAINTWORK ETC TO NEW WORK</u></b>                                                                                                                                                                    |    |    |
|                                                                                                                            | <b><u>"PLASCON" OR OTHER EQUAL AND APPROVED</u></b>                                                                                                                                                        |    |    |
|                                                                                                                            | <b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>                                                                                                                                                         |    |    |
|                                                                                                                            | Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use. |    |    |
| 77                                                                                                                         | On beamfilling                                                                                                                                                                                             | m2 | 3  |
|                                                                                                                            | <b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>                                                                                                                                                         |    |    |
|                                                                                                                            | Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for exterior use. |    |    |
| 78                                                                                                                         | On beamfilling                                                                                                                                                                                             | m2 | 3  |
|                                                                                                                            | <b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>                                                                                                                                                               |    |    |
| Carried Forward                                                                                                            |                                                                                                                                                                                                            |    | R  |
| Section No. 2<br>Bill No. 2<br>ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                            |    |    |

| Brought Forward                                    |                                                                                                                                                                                           |    | R  |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|                                                    | <u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use.</u>      |    |    |
| 79                                                 | Fascias and barge boards, including priming metal jointing strips                                                                                                                         | m2 | 66 |
|                                                    | <b><u>ON WOOD SURFACES</u></b>                                                                                                                                                            |    |    |
|                                                    | <u>Prepare surfaces and remove all loose material. apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint.</u> |    |    |
| 80                                                 | Doors                                                                                                                                                                                     | m2 | 10 |
|                                                    | <u>Prepare and brush surface to remove all loose contaminants and apply two coats "A.B.E Provonite" carbolineum or equal approved anti-corrosive coal tar paint</u>                       |    |    |
| 81                                                 | Roof timbers at eaves and verges                                                                                                                                                          | m2 | 12 |
|                                                    | <b><u>TEMPORARY ABLUTION</u></b>                                                                                                                                                          |    |    |
| 82                                                 | Rental of temporary chemical mobile toilets including transportation and establishment on site and de-establishment on completion for a period of 6 calendar months                       |    |    |
|                                                    | <b>Tenderers to note that a total hire period of 6 calendar months must be priced in the abovementioned item</b>                                                                          |    |    |
|                                                    |                                                                                                                                                                                           | No | 7  |
| <b>Carried Forward to Summary of Section No. 2</b> |                                                                                                                                                                                           |    | R  |
| Section No. 2                                      |                                                                                                                                                                                           |    |    |
| Bill No. 2                                         |                                                                                                                                                                                           |    |    |
| ALTERATIONS TO EXISTING BUILDINGS (PIT TOILET      |                                                                                                                                                                                           |    |    |
| KHANYISA SECONDARY SCHOOL                          |                                                                                                                                                                                           |    |    |
| WIMS: 065544                                       |                                                                                                                                                                                           |    |    |

| Bill<br>No                                                 | SECTION SUMMARY - ALTERATIONS AND DEMOLITIONS (PROVISIONAL)                     | Page<br>No               | Amount |
|------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|--------|
| 1                                                          | DEMOLITIONS (PIT TOILETS) (PROVISIONAL) (CPAP<br>WORK GROUP NO. 102 UNLESS OTHE | 25                       |        |
| 2                                                          | ALTERATIONS TO EXISTING BUILDINGS (PIT<br>TOILETS) (PROVISIONAL)                | 37                       |        |
| Section No. 2<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                 | Carried to Final Summary |        |
| R                                                          |                                                                                 |                          |        |

| Item No |                                                                                                                      | Quantity | Rate | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>SECTION No. 3</u></b>                                                                                          |          |      |        |
|         | <b><u>BILL No. 1</u></b>                                                                                             |          |      |        |
|         | <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></b>                              |          |      |        |
|         | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition)  |          |      |        |
|         | <b><u>SITE CLEARANCE, ETC.</u></b>                                                                                   |          |      |        |
|         | <u>Site clearance</u>                                                                                                |          |      |        |
| 1       | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.  | m2       | 216  |        |
| 2       | Stripping average 150mm thick layer of top soil and stockpiling on site                                              | m2       | 216  |        |
|         | <b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b>                                                              |          |      |        |
|         | <u>Excavation in earth not exceeding 2m deep</u>                                                                     |          |      |        |
| 3       | Reduced levels under floors                                                                                          | m3       | 12   |        |
| 4       | Trenches                                                                                                             | m3       | 2    |        |
| 5       | Pit                                                                                                                  | m3       | 26   |        |
|         | <u>Excavation in earth exceeding 2m deep</u>                                                                         |          |      |        |
| 6       | Pit                                                                                                                  | m3       | 13   |        |
|         | <b>Carried Forward</b>                                                                                               |          | R    |        |
|         | Section No. 3<br>Bill No. 1<br>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |          |      |        |

| Brought Forward                                                                                                      |                                                                                                                                                                                                                |    |      | R |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|---|
| <u>Extra over trench and hole excavations in earth for excavation in</u>                                             |                                                                                                                                                                                                                |    |      |   |
| 7                                                                                                                    | Intermediate material                                                                                                                                                                                          | m3 | 10   |   |
| 8                                                                                                                    | Hard rock                                                                                                                                                                                                      | m3 | 10   |   |
| <u>Working space for pits</u>                                                                                        |                                                                                                                                                                                                                |    |      |   |
| 9                                                                                                                    | Working space for pits                                                                                                                                                                                         | m2 | 9    |   |
| <u>Extra over all excavations for carting away</u>                                                                   |                                                                                                                                                                                                                |    |      |   |
| 10                                                                                                                   | Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor                                                                                                | m3 | 57   |   |
| <u>Risk of collapse of excavations</u>                                                                               |                                                                                                                                                                                                                |    |      |   |
| 11                                                                                                                   | Sides of trench and hole excavations not exceeding 1,5m deep                                                                                                                                                   | m2 | 32   |   |
| <u>Keeping excavations free of water</u>                                                                             |                                                                                                                                                                                                                |    |      |   |
| 12                                                                                                                   | Keeping excavations free of all water other than subterranean water                                                                                                                                            |    | Item |   |
| <b><u>FILLING ETC</u></b>                                                                                            |                                                                                                                                                                                                                |    |      |   |
| <u>Earth filling supplied by the contractor under pavings etc.</u>                                                   |                                                                                                                                                                                                                |    |      |   |
| 13                                                                                                                   | 150mm G5 Material in accordance with SABS 1200 DM compacted to 98% Mod. AASHTO density                                                                                                                         | m3 | 6    |   |
| <u>Compaction of surfaces</u>                                                                                        |                                                                                                                                                                                                                |    |      |   |
| 14                                                                                                                   | Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod. AASHTO density | m2 | 36   |   |
| Carried Forward                                                                                                      |                                                                                                                                                                                                                |    |      | R |
| Section No. 3<br>Bill No. 1<br>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                |    |      |   |

| Brought Forward                                      |                                                                                                                                   |    | R  |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----|----|
| <u>Prescribed density tests on filling</u>           |                                                                                                                                   |    |    |
| 15                                                   | "Modified AASHTO Density" test                                                                                                    | No | 4  |
| 16                                                   | "Field Density" test including "Optimum Moisture Content" (four readings per test)                                                | No | 4  |
| <b><u>SOIL POISONING</u></b>                         |                                                                                                                                   |    |    |
| <u>Soil Insecticide in accordance with SANS 5859</u> |                                                                                                                                   |    |    |
| 17                                                   | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming | m2 | 32 |
| Carried Forward to Summary of Section No. 3          |                                                                                                                                   |    | R  |
| Section No. 3                                        |                                                                                                                                   |    |    |
| Bill No. 1                                           |                                                                                                                                   |    |    |
| EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP             |                                                                                                                                   |    |    |
| KHANYISA SECONDARY SCHOOL                            |                                                                                                                                   |    |    |
| WIMS: 065544                                         |                                                                                                                                   |    |    |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p>Cost of tests</p> <p>The costs of making, storing and testing of concrete test cubes as required under Clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p>Formwork</p> |          |      |        |
| <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      | R      |
| <p>Section No. 3<br/>Bill No. 2<br/>CONCRETE, FORMWORK AND REINFORCEMENT (PR<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |        |

**Brought Forward**

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".

**UNREINFORCED CONCRETE CAST AGAINST  
EXCAVATED SURFACES**

15MPa Concrete

|   |                                           |    |   |
|---|-------------------------------------------|----|---|
| 1 | Surface blinding under footings and bases | m3 | 8 |
|---|-------------------------------------------|----|---|

R

**Carried Forward**

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Brought Forward

R

**REINFORCED CONCRETE CAST ON/IN FORMWORK**

25MPa/19mm Concrete

|   |                                                     |    |    |
|---|-----------------------------------------------------|----|----|
| 2 | Foundation beams                                    | m3 | 6  |
| 3 | Surface beds on waterproofing, including thickening | m3 | 10 |
| 4 | Slabs including beams and inverted beams (LI)       | m3 | 5  |
| 5 | Concrete nib, etc                                   | m3 | 3  |
| 6 | Pit base                                            | m3 | 10 |

**PRECAST CONCRETE (CPAP WORK GROUP 112)**

Precast concrete cover slab 80mm thick formed of 25Mpa/19mm concrete with class 1 smooth finish on exposed surfaces splayed 25mm at edges with ref. 193 mesh reinforcement and 2no. 15mm diameter polycop pipe sleeves cast in to receive 2no. threaded 10mm diameter galvanised L-shaped lifting handles with 50 x 50 x 5mm holed plates, nuts and lock nuts, including holes to fit 110mm diameter vent pipe, etc. laid on brick walls

|    |                                  |    |   |
|----|----------------------------------|----|---|
| 7  | Cover slab size 860 x 930mm (LI) | No | 1 |
| 8  | Cover slab size 870 x 930mm (LI) | No | 1 |
| 9  | Cover slab size 820 x 930mm (LI) | No | 1 |
| 10 | Cover slab size 825 x 930mm (LI) | No | 1 |

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| Brought Forward                                                                                                      |                                                                                                                                             |    | R  |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>CONCRETE SUNDRIES</u></b>                                                                                      |                                                                                                                                             |    |    |
| <u>Sleeves</u>                                                                                                       |                                                                                                                                             |    |    |
| 11                                                                                                                   | 110mm Diameter pipe and socket cast in concrete formed of 130mm long black pipe uPVC welded to 100mm long uPVC pipe with single socket (LI) | No | 8  |
| <u>Finishing top surfaces of concrete smooth with a wood float</u>                                                   |                                                                                                                                             |    |    |
| 12                                                                                                                   | Surface beds, slabs, etc.                                                                                                                   | m2 | 16 |
| <u>Test blocks</u>                                                                                                   |                                                                                                                                             |    |    |
| 13                                                                                                                   | Making and testing 150 x 150 x 150mm concrete strength test cubes                                                                           | No | 4  |
| <b><u>FORMWORK (CPAP WORK GROUP NO. 111 UNLESS OTHERWISE STATED)</u></b>                                             |                                                                                                                                             |    |    |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                                                 |                                                                                                                                             |    |    |
| <u>Rough formwork to sides</u>                                                                                       |                                                                                                                                             |    |    |
| 14                                                                                                                   | Foundation beams (Provisional), etc (LI)                                                                                                    | m2 | 34 |
| 15                                                                                                                   | Edges, risers, ends and reveals not exceeding 300mm high or wide                                                                            | m  | 34 |
| Carried Forward                                                                                                      |                                                                                                                                             |    | R  |
| Section No. 3<br>Bill No. 2<br>CONCRETE, FORMWORK AND REINFORCEMENT (PR<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                             |    |    |

| Brought Forward                          |                                                                                                     |    | R  |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|----|----|
|                                          | <u>Formwork to soffit of slab</u>                                                                   |    |    |
| 16                                       | Slabs, propped up exceeding 1.5m and not exceeding 3.5m high (LI)                                   | m2 | 18 |
|                                          | <u>Rough formwork to sides and soffits</u>                                                          |    |    |
| 17                                       | Beams propped up exceeding 1.5m and not exceeding 3.5m high (LI)                                    | m2 | 12 |
|                                          | <b><u>MOVEMENT JOINTS, ETC.</u></b>                                                                 |    |    |
|                                          | <u>Slip joints between horizontal concrete and brick surfaces with two layers of 3 ply malthoid</u> |    |    |
| 18                                       | Not exceeding 300mm wide (LI)                                                                       | m  | 31 |
|                                          | <u>Expansion joints with bitumen impregnated fibreboard between vertical concrete surfaces</u>      |    |    |
| 19                                       | 13mm Joints not exceeding 300mm high                                                                | m  | 48 |
| Carried Forward                          |                                                                                                     |    | R  |
| Section No. 3                            |                                                                                                     |    |    |
| Bill No. 2                               |                                                                                                     |    |    |
| CONCRETE, FORMWORK AND REINFORCEMENT (PR |                                                                                                     |    |    |
| KHANYISA SECONDARY SCHOOL                |                                                                                                     |    |    |
| WIMS: 065544                             |                                                                                                     |    |    |

Brought Forward

**REINFORCEMENT (PROVISIONAL) (CPAP WORK  
GROUP NO. 114)**

High tensile steel reinforcement to structural concrete  
work

|    |                           |   |      |
|----|---------------------------|---|------|
| 20 | Bars of varying diameters | t | 1.70 |
|----|---------------------------|---|------|

Fabric reinforcement

|    |                                                                |    |    |
|----|----------------------------------------------------------------|----|----|
| 21 | Type 193 fabric reinforcement in concrete surface beds,<br>etc | m2 | 36 |
|----|----------------------------------------------------------------|----|----|

Carried Forward to Summary of Section No. 3

Section No. 3

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CONCRETE, FORMWORK AND REINFORCEMENT (PR

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| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quantity | Rate | Amount |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 3</u></b></p> <p><b><u>MASONRY(CPAP WORK GROUP NO. 116</u></b><br/><b><u>UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as</u></b><br/><b><u>published by the Association of South African</u></b><br/><b><u>Quantity Surveyors shall apply</u></b></p> <p><b><u>Bagged and sealed walls</u></b></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | R    |        |
|         | <p>Section No. 3</p> <p>Bill No. 3</p> <p>MASONRY (PROVISIONAL)</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |        |

| Brought Forward                                                                                                  |                                                                                                                                                                                          |    | R   |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| <b><u>BRICKWORK</u></b>                                                                                          |                                                                                                                                                                                          |    |     |
| <b><u>FOUNDATIONS (PROVISIONAL)</u></b>                                                                          |                                                                                                                                                                                          |    |     |
| <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u> |                                                                                                                                                                                          |    |     |
| 1                                                                                                                | One brick walls                                                                                                                                                                          | m2 | 50  |
| <b><u>BRICKWORK IN SUPERSTRUCTURE</u></b>                                                                        |                                                                                                                                                                                          |    |     |
| <u>Brickwork of NFP Bricks in Class II mortar</u>                                                                |                                                                                                                                                                                          |    |     |
| 2                                                                                                                | Half brick wall                                                                                                                                                                          | m2 | 20  |
| 3                                                                                                                | Half brick wall in beamfilling                                                                                                                                                           | m2 | 2   |
| 4                                                                                                                | One brick wall                                                                                                                                                                           | m2 | 180 |
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                                 |                                                                                                                                                                                          |    |     |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                                    |                                                                                                                                                                                          |    |     |
| 5                                                                                                                | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 180 |
| Carried Forward                                                                                                  |                                                                                                                                                                                          |    | R   |
| Section No. 3<br>Bill No. 3<br>MASONRY (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                |                                                                                                                                                                                          |    |     |

| Brought Forward                                                                                                 |                                                                                               |    | R   |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----|-----|
|                                                                                                                 | <u>Brickwork reinforcement</u>                                                                |    |     |
| 6                                                                                                               | 75mm Wide reinforcement built in horizontally                                                 | m  | 26  |
| 7                                                                                                               | 150mm Wide reinforcement built in horizontally                                                | m  | 316 |
|                                                                                                                 | <u>Prestressed fabricated concrete lintels including necessary temporary supports</u>         |    |     |
| 8                                                                                                               | 110 x 75mm Lintels in lengths not exceeding 3m                                                | m  | 24  |
|                                                                                                                 | <u>Turning pieces to lintels. etc.</u>                                                        |    |     |
| 9                                                                                                               | 230mm Wide turning pieces                                                                     | m  | 12  |
|                                                                                                                 | <u>Galvanised hoop iron cramps, ties, etc</u>                                                 |    |     |
| 10                                                                                                              | 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber | No | 21  |
|                                                                                                                 | <u>Air bricks etc</u>                                                                         |    |     |
| 11                                                                                                              | 229 x 152mm Terra-cotta vermin proof air brick                                                | No | 10  |
| Carried Forward                                                                                                 |                                                                                               |    | R   |
| Section No. 3<br>Bill No. 3<br>MASONRY (PROVISIONAL)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b> |                                                                                               |    |     |

| Brought Forward                                                                                                                                                      |                                                                                       |    | R   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|-----|
| <b><u>FACE BRICKWORK</u></b>                                                                                                                                         |                                                                                       |    |     |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u>                             |                                                                                       |    |     |
| 12                                                                                                                                                                   | Extra over brickwork for face brickwork                                               | m2 | 180 |
| 13                                                                                                                                                                   | Extra over brickwork for brick-on-edge header course lintel                           | m  | 10  |
| 14                                                                                                                                                                   | Fair cutting and fitting around pipe not exceeding 100mm diameter                     | No | 8   |
| 15                                                                                                                                                                   | Extra over solid brick on end of brick on edge sill                                   | No | 10  |
| 16                                                                                                                                                                   | Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter | No | 6   |
| <u>Brick-on-edge header course copings, sills, etc. of "Corobrik Travertine FBA" or other approved face bricks pointed with recessed joints on all exposed faces</u> |                                                                                       |    |     |
| 17                                                                                                                                                                   | 220mm Wide sill set sloping and slightly projecting                                   | m  | 8   |
| <b><u>"NUTEC" OR OTHER APPROVED FIBRE-CEMENT WINDOW SILLS</u></b>                                                                                                    |                                                                                       |    |     |
| <u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.</u>                                                                |                                                                                       |    |     |
| 18                                                                                                                                                                   | 150 x 15mm Thick sills set flat and slightly projecting                               | m  | 8   |
| Carried Forward to Summary of Section No. 3                                                                                                                          |                                                                                       |    | R   |
| Section No. 3                                                                                                                                                        |                                                                                       |    |     |
| Bill No. 3                                                                                                                                                           |                                                                                       |    |     |
| MASONRY (PROVISIONAL)                                                                                                                                                |                                                                                       |    |     |
| KHANYISA SECONDARY SCHOOL                                                                                                                                            |                                                                                       |    |     |
| WIMS: 065544                                                                                                                                                         |                                                                                       |    |     |

| Item No |                                                                                                                                      | Quantity | Rate | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>SECTION No. 3</u></b>                                                                                                          |          |      |        |
|         | <b><u>BILL No. 4</u></b>                                                                                                             |          |      |        |
|         | <b><u>WATERPROOFING(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                         |          |      |        |
|         | <b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b>  |          |      |        |
|         | <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>                                                                                       |          |      |        |
|         | <u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u> |          |      |        |
| 1       | Under surface beds, slabs, etc.                                                                                                      | m2       | 21   |        |
|         | <u>One layer 375 micron Hyperlastic Orange DPM with 3mm thick with masonite protection (all external faces of pit)</u>               |          |      |        |
| 2       | Pit walls                                                                                                                            | m2       | 40   |        |
|         | <u>Two coats "ABE Brixéal" or other approved bitumen emulsion waterproof coating</u>                                                 |          |      |        |
| 3       | On brick walls                                                                                                                       | m2       | 180  |        |
|         | <b><u>JOINT SEALANTS, ETC.</u></b>                                                                                                   |          |      |        |
|         | <u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>                                |          |      |        |
| 4       | 13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary         | m        | 48   |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>                                                                                   |          |      |        |
|         | Section No. 3                                                                                                                        |          |      |        |
|         | Bill No. 4                                                                                                                           |          |      |        |
|         | WATERPROOFING                                                                                                                        |          |      |        |
|         | <b>KHANYISA SECONDARY SCHOOL</b>                                                                                                     |          |      |        |
|         | <b>WIMS: 065544</b>                                                                                                                  |          |      |        |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Amount |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 5</u></b></p> <p><b><u>ROOF COVERINGS, ETC. (CPAP WORK GROUP NO. 125 UNLESS OTHERWISE STATED)</u></b></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2017</i></p> <p><i>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</i></p> <p>Roof sheeting systems are to be manufactured in strict accordance with the supplier's specifications.</p> <p>Fixing of all roof sheeting is to be in accordance with the manufacturer's approved instruction book.</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      | R      |
| <p>Section No. 3<br/>Bill No. 5<br/>ROOF COVERINGS, ETC.<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |        |

| Brought Forward                                                                                                                                                                  |                                                                                                                      |    | R  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----|----|
| The manufacturer shall comply with ISO9002 Quality Management System.                                                                                                            |                                                                                                                      |    |    |
| <b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>                                                                                                                            |                                                                                                                      |    |    |
| <u>0.58mm Colorbond IBR profile sheeting, colour one side fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u> |                                                                                                                      |    |    |
| 1                                                                                                                                                                                | Roof covering with pitch not exceeding 25 degrees                                                                    | m2 | 32 |
| 2                                                                                                                                                                                | Standard galvanised ridge capping (550mm girth) screwed through sheeting to purlins                                  | m  | 5  |
| 3                                                                                                                                                                                | Cover flashings 100mm girth                                                                                          | m  | 10 |
| 4                                                                                                                                                                                | Sondor IBR pattern polyclosures to underside of ridge capping                                                        | m  | 10 |
| <u>Polycarbonate translucent roof sheeting</u>                                                                                                                                   |                                                                                                                      |    |    |
| 5                                                                                                                                                                                | Roof covering with pitch not exceeding 25 degrees                                                                    | m2 | 10 |
| <b><u>ROOF AND WALL INSULATION</u></b>                                                                                                                                           |                                                                                                                      |    |    |
| <u>"Sisalation FR430" Heavy Industrial Grade Aluminum Foil based insulation</u>                                                                                                  |                                                                                                                      |    |    |
| 6                                                                                                                                                                                | Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 32 |
| Carried Forward to Summary of Section No. 3                                                                                                                                      |                                                                                                                      |    | R  |
| Section No. 3                                                                                                                                                                    |                                                                                                                      |    |    |
| Bill No. 5                                                                                                                                                                       |                                                                                                                      |    |    |
| ROOF COVERINGS, ETC.                                                                                                                                                             |                                                                                                                      |    |    |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                        |                                                                                                                      |    |    |
| WIMS: 065544                                                                                                                                                                     |                                                                                                                      |    |    |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quantity                                                                                                                                                                                                                                                                                                                                                                                      | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|
| <b><u>SECTION No. 3</u></b><br><br><b><u>BILL No. 6</u></b><br><br><b><u>CARPENTRY AND JOINERY(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u></b><br><br><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b><br><br><b><u>PREFABRICATED TIMBER ROOF TRUSSES, ETC</u></b><br><br>NOTE: Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members). The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is IBR profiled metal sheeting colour one side on 50 x 76mm purlins. Ceilings are nailed gypsum plasterboard on brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences.<br><br><b><u>Design and supply plate nailed timber roof trusses</u></b> |                                                                                                                                                                                                                                                                                                                                                                                               |      |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 26m2 (on flat floor area inclusive of overhangs) | No   | 1      |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                               |      | R      |
| Section No. 3<br>Bill No. 6<br>CARPENTRY AND JOINERY<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                               |      |        |

| Brought Forward                                                                                   |                                                                                                                                                                                                                                                                                      |      | R  |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 2                                                                                                 | Allowance for the issue of TR1 and TR2 certificates after completion of entire roof installation, signed by a competent person                                                                                                                                                       | Item |    |
|                                                                                                   | <u>Wrought softwood</u>                                                                                                                                                                                                                                                              |      |    |
| 3                                                                                                 | 38 x 114mm Wall plates                                                                                                                                                                                                                                                               | m    | 10 |
| 4                                                                                                 | 76 x 50mm Purlins                                                                                                                                                                                                                                                                    | m    | 40 |
| 5                                                                                                 | 76 x 76mm Splayed gutter purlins                                                                                                                                                                                                                                                     | m    | 10 |
|                                                                                                   | <b><u>EAVES, VERGES, ETC.</u></b>                                                                                                                                                                                                                                                    |      |    |
|                                                                                                   | <u>Pressed Nutec or other approved fibre cement boards</u>                                                                                                                                                                                                                           |      |    |
| 6                                                                                                 | 12mm x 225mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers                                                                                                                                                                     | m    | 10 |
| 7                                                                                                 | 10 x 80 x 200mm Barge boards including H-profile jointing strips                                                                                                                                                                                                                     | m    | 10 |
|                                                                                                   | <b><u>DOORS, ETC.</u></b>                                                                                                                                                                                                                                                            |      |    |
|                                                                                                   | <u>Wrought Meranti or similar approved doors</u>                                                                                                                                                                                                                                     |      |    |
| 8                                                                                                 | 40mm Framed ledged, braced and battened door size 762 x 1200mm high, hung 100mm from the finished floor level (Refer to Door Schedule D1 on drawing - GR-2S-1T-TB-WB)                                                                                                                | No   | 2  |
| 9                                                                                                 | 40mm Framed ledged, braced and battened door size 813 x 2032mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, hung to steel frame (elsewhere measured) (Refer to Door Schedule D2 on drawing - GR-2S-1T-TB-WB) | No   | 2  |
| Carried Forward                                                                                   |                                                                                                                                                                                                                                                                                      |      | R  |
| Section No. 3<br>Bill No. 6<br>CARPENTRY AND JOINERY<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                                                                                      |      |    |

| Brought Forward                             |                                                          |   |   | R |
|---------------------------------------------|----------------------------------------------------------|---|---|---|
| <u>POSTS</u>                                |                                                          |   |   |   |
|                                             | <u>Wrought meranti</u>                                   |   |   |   |
| 10                                          | 44 x 70mm Rebated and hollow rounded at back post bolted | m | 4 |   |
| Carried Forward to Summary of Section No. 3 |                                                          |   |   | R |
| Section No. 3                               |                                                          |   |   |   |
| Bill No. 6                                  |                                                          |   |   |   |
| CARPENTRY AND JOINERY                       |                                                          |   |   |   |
| KHANYISA SECONDARY SCHOOL                   |                                                          |   |   |   |
| WIMS: 065544                                |                                                          |   |   |   |

## BILL No. 7

**Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply**

### Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered

On request returnable samples are to be provided to the principal agent for consideration

### HINGES, BOLTS, ETC.

"Union" or other approved

- 1 Solid Art 294 WC or other equal and approved anodised aluminium mortice indicator bolt

|    |   |
|----|---|
| No | 3 |
|----|---|

**"Dorma" or other approved**

- |   |                                                               |
|---|---------------------------------------------------------------|
| 2 | "DRR-SS-012" 102 x 75 x 3mm Stainless steel rising butt hinge |
|---|---------------------------------------------------------------|

|    |   |
|----|---|
| No | 8 |
|----|---|

**Carried Forward**

R

-58-

| Brought Forward                             |                                                                                                                                                                                                                                                             |    | R |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| <b><u>LOCKS</u></b>                         |                                                                                                                                                                                                                                                             |    |   |
| <u>"Union" or other approved</u>            |                                                                                                                                                                                                                                                             |    |   |
| 3                                           | " 2247-7855 Commercial Series" Four lever mortice lock                                                                                                                                                                                                      | No | 2 |
| <b><u>HANDLES</u></b>                       |                                                                                                                                                                                                                                                             |    |   |
| <u>"Union" or other approved</u>            |                                                                                                                                                                                                                                                             |    |   |
| 4                                           | "CB862-05CH" Brass Gower lever handles                                                                                                                                                                                                                      | No | 2 |
| <b><u>SUNDRIES</u></b>                      |                                                                                                                                                                                                                                                             |    |   |
| <u>"Union" or other approved</u>            |                                                                                                                                                                                                                                                             |    |   |
| 5                                           | "CZ8731CH" Door stop fixed with counter-sunk bolt into anchor bolt                                                                                                                                                                                          | No | 3 |
| 6                                           | 38mm Diameter rubber door stop, plugged and screwed to floor with 50mm long brass screw                                                                                                                                                                     | No | 1 |
| <b><u>LETTERS, NAMEPLATES, ETC.</u></b>     |                                                                                                                                                                                                                                                             |    |   |
| <u>Signage</u>                              |                                                                                                                                                                                                                                                             |    |   |
| 7                                           | 200 x 250mm Pressed aluminium with male, female symbol fixed to brickwork with 6 no. "Hilti" nail anchors                                                                                                                                                   | No | 1 |
| <b><u>BATHROOM FITTINGS</u></b>             |                                                                                                                                                                                                                                                             |    |   |
| <u>Toilet roll holders</u>                  |                                                                                                                                                                                                                                                             |    |   |
| 8                                           | 40 x 3mm Thick steel plate with 2 x 8mm holes and rawl bolts and 2 x 30mm holes to support roller bent to suit 27 diameter x 2mm thick steel pipe with hole for padlock and a 40 x 3mm thick steel plate welded on other end.(See architect drawing No.TRH) | No | 3 |
| Carried Forward to Summary of Section No. 3 |                                                                                                                                                                                                                                                             |    | R |
| Section No. 3                               |                                                                                                                                                                                                                                                             |    |   |
| Bill No. 7                                  |                                                                                                                                                                                                                                                             |    |   |
| IRONMONGERY                                 |                                                                                                                                                                                                                                                             |    |   |
| KHANYISA SECONDARY SCHOOL                   |                                                                                                                                                                                                                                                             |    |   |
| WIMS: 065544                                |                                                                                                                                                                                                                                                             |    |   |

**BILL No. 8**

**Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply**

## Screens and gates

- |   |                                                                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Single gate size 877 x 2250mm high of 40 x 60 x 3mm rectangular tubing with 12mm diameter steel rods at 110mm centre and 40 x 6mm horizontal support flat bars fixed with hinges to steel frame of 45 x 45 x 3mm rectangular tubing fixed to walls with bolts and lugs including padlock plate |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2mm Rebated frames suitable for one brick walls

- 2 Frame for door 813 x 2032mm high

1.2mm Rebated frames suitable for half brick walls

- |   |                                  |
|---|----------------------------------|
| 3 | Frame for door 762 x 1932mm high |
|---|----------------------------------|

Carried Forward

R

-60-

Brought Forward

**GALVANISED STEEL WINDOWS, DOORS, ETC**

SS industrial type windows

- 4 Window type W1, 1100 x 550mm high. (Refer to window schedule on drawing)

No

5

R

Carried Forward to Summary of Section No. 3

Section No. 3

Bill No. 8

METALWORK

KHANYISA SECONDARY SCHOOL

WIMS: 065544

R

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 9</u></b></p> <p><b><u>PLASTERING(CPAP WORK GROUP NO. 142</u></b><br/><b><u>UNLESS OTHERWISE STATED)</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      | R      |
| <p>Section No. 3<br/>Bill No. 9<br/>PLASTERING<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |        |

**Brought Forward**

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

Panels

Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

**Carried Forward**

Section No. 3  
Bill No. 9  
PLASTERING  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

R

R

| Brought Forward                                                                                                                                                                                                                                                                  |                                   |    | R   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----|-----|
| <u>Laying</u>                                                                                                                                                                                                                                                                    |                                   |    |     |
| Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels                                                                                                                                       |                                   |    |     |
| Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels |                                   |    |     |
| After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated                       |                                   |    |     |
| <u>Curing, seasoning and protection</u>                                                                                                                                                                                                                                          |                                   |    |     |
| Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying                                                                                                                                             |                                   |    |     |
| <b><u>SCREEDS</u></b>                                                                                                                                                                                                                                                            |                                   |    |     |
| <u>Screeds steel trowelled, on concrete</u>                                                                                                                                                                                                                                      |                                   |    |     |
| 1                                                                                                                                                                                                                                                                                | 50mm Thick on floors and landings | m2 | 21  |
| <b><u>INTERNAL PLASTER</u></b>                                                                                                                                                                                                                                                   |                                   |    |     |
| <u>Cement plaster steel trowelled, on brickwork</u>                                                                                                                                                                                                                              |                                   |    |     |
| 2                                                                                                                                                                                                                                                                                | On walls                          | m2 | 180 |
| 3                                                                                                                                                                                                                                                                                | On narrow widths                  | m2 | 6   |
| <b>Carried Forward to Summary of Section No. 3</b>                                                                                                                                                                                                                               |                                   |    | R   |
| Section No. 3                                                                                                                                                                                                                                                                    |                                   |    |     |
| Bill No. 9                                                                                                                                                                                                                                                                       |                                   |    |     |
| PLASTERING                                                                                                                                                                                                                                                                       |                                   |    |     |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                                                                                                        |                                   |    |     |
| WIMS: 065544                                                                                                                                                                                                                                                                     |                                   |    |     |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Amount |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 10</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b><br/> <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148</u></b><br/> <b><u>UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p>NOTE: Prices for sanitary fittings fixed to walls or abutting walls, etc. shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | R    |        |
|         | <p>Section No. 3</p> <p>Bill No. 10</p> <p>PLUMBING AND DRAINAGE (PROVISIONAL)</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |        |

**Brought Forward**

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

R

**Carried Forward**

Section No. 3  
Bill No. 10  
PLUMBING AND DRAINAGE (PROVISIONAL)  
**KHANYISA SECONDARY SCHOOL**  
**WIMS: 065544**

R

|                                                                                                                          |                                                                                                                                                                                                                           |    |    |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| Brought Forward                                                                                                          |                                                                                                                                                                                                                           |    | R  |
| <b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b> |                                                                                                                                                                                                                           |    |    |
| <b><u>RAINWATER DISPOSAL</u></b>                                                                                         |                                                                                                                                                                                                                           |    |    |
| <b><u>0.7mm Baked Enamel on aluminium gutter system in continuous lengths including hail brackets</u></b>                |                                                                                                                                                                                                                           |    |    |
| 1                                                                                                                        | 150 x 150mm Ogee eaves gutters                                                                                                                                                                                            | m  | 10 |
| 2                                                                                                                        | Extra over gutters for outlet for stop ends                                                                                                                                                                               | No | 4  |
| <b><u>0.6mm Thick aluminium down pipes with white finish:</u></b>                                                        |                                                                                                                                                                                                                           |    |    |
| 3                                                                                                                        | 100mm Diameter rainwater downpipes secured to walls with brackets                                                                                                                                                         | m  | 6  |
| 4                                                                                                                        | Extra over 100mm rainwater pipe for shoe                                                                                                                                                                                  | No | 2  |
| 5                                                                                                                        | Extra over 100mm rainwater pipe for bend                                                                                                                                                                                  | No | 2  |
| 6                                                                                                                        | Extra over 150mm gutter for swan neck                                                                                                                                                                                     | No | 2  |
| <b><u>PRECAST CONCRETE CHANNELS</u></b>                                                                                  |                                                                                                                                                                                                                           |    |    |
| 7                                                                                                                        | 180 x 480mm Channel 1200mm long with segmental channel with one open end and one stopped end formed therein and finished smooth, including placing in position under shoe of rainwater pipe on a well rammed earth bottom | No | 4  |
| <b><u>STORMWATER DRAINAGE</u></b>                                                                                        |                                                                                                                                                                                                                           |    |    |
| 8                                                                                                                        | Excavation in earth not exceeding 1m deep for pipe trenches                                                                                                                                                               | m3 | 3  |
| 9                                                                                                                        | Backfilling to pipe trenches compacted to 93% Mod AASHTO density                                                                                                                                                          | m3 | 3  |
| Carried Forward                                                                                                          |                                                                                                                                                                                                                           |    | R  |
| Section No. 3<br>Bill No. 10<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544         |                                                                                                                                                                                                                           |    |    |

| Brought Forward                                                                                                  |                                                                                                                                                                                                                                                                                                                       |    | R  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <u>Class 100D concrete pipes with interlocking joints</u>                                                        |                                                                                                                                                                                                                                                                                                                       |    |    |
| 10                                                                                                               | 110mm Pipes laid in trenches (trenches elsewhere)                                                                                                                                                                                                                                                                     | m  | 50 |
| <b><u>SANITARY FITTINGS</u></b>                                                                                  |                                                                                                                                                                                                                                                                                                                       |    |    |
| <u>"Atlas Plastics (Pty) Ltd" or other approved</u>                                                              |                                                                                                                                                                                                                                                                                                                       |    |    |
| 11                                                                                                               | Atlas Plastics "Aquarius Close Coupled Toilet" (code 570AP) colour Granite with seat, overall size 416 x 690 x 768mm high, with foot of pan grouted to the floor with 1:3 cement mortar                                                                                                                               | No | 3  |
| 12                                                                                                               | Atlas Plastics "Bambi P-Trap" (Code 625AP) colour Granite with flap, overall size 282 x 360 x 300mm high, with foot of pan grouted to the floor with 1:3 cement mortar including 9 litre pull and release dual flush cistern (Code 526AP) with Granite colour, plugged and screwed to the wall with galvanised screws | No | 3  |
| 13                                                                                                               | Atlas Plastics "SC urinal" (Code 511AP) colour Granite with 40mm waterless waste - 496 (Code: 101228 ), overall size 350 x 320 x 470mm high plugged and screwed to wall with galvanised screws and brackets                                                                                                           | No | 3  |
| 14                                                                                                               | Atlas Plastics "Christy" (Code 945AP) wash hand basin with splashback, colour Granite, overall size 580 x 410mm wide with 2 tap holes and 40mm waste outlet, plugged and screwed to wall with galvanised screws and brackets                                                                                          | No | 2  |
| 15                                                                                                               | Atlas Plastics "30 Litre Wash Trough" (Code 366AP) colour Granite (Code: 101133), overall size 528 x 412mm wide with 40mm waste outlet, plugged and screwed to the wall with galvanised screws and fixing brackets                                                                                                    | No | 1  |
| Carried Forward                                                                                                  |                                                                                                                                                                                                                                                                                                                       |    | R  |
| Section No. 3<br>Bill No. 10<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                                                                                                                       |    |    |

| Brought Forward                                                                                                  |                                                                  |    |    | R |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----|----|---|
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                  |                                                                  |    |    |   |
| <u>"Cobra Watertech" or other approved</u>                                                                       |                                                                  |    |    |   |
| 16                                                                                                               | 15mm Chromium plated 'Star 136-15' stopcock                      | No | 7  |   |
| 17                                                                                                               | 15mm Chromium plated 'Star 106-15' basin bibtap                  | No | 4  |   |
| 18                                                                                                               | 15mm Standard brass 'Plain 100-15' bibtap with flow straightener | No | 2  |   |
| <b><u>SANITARY PLUMBING</u></b>                                                                                  |                                                                  |    |    |   |
| <u>PVC-U soil and vent pipes</u>                                                                                 |                                                                  |    |    |   |
| 19                                                                                                               | 50mm Pipes                                                       | m  | 24 |   |
| 20                                                                                                               | 110mm Pipes                                                      | m  | 5  |   |
| <u>Extra over PVC-U soil and vent pipes for fittings</u>                                                         |                                                                  |    |    |   |
| 21                                                                                                               | 50mm Bend                                                        | No | 6  |   |
| 22                                                                                                               | 50mm Access bend                                                 | No | 6  |   |
| 23                                                                                                               | 50mm Junction                                                    | No | 5  |   |
| 24                                                                                                               | 110mm Access bend                                                | No | 3  |   |
| 25                                                                                                               | 110mm End cap                                                    | No | 2  |   |
| Carried Forward                                                                                                  |                                                                  |    |    | R |
| Section No. 3<br>Bill No. 10<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                  |    |    |   |

| Brought Forward                                                                                                  |                                                                                                      |    | R  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----|----|
| <b><u>TRAPS ETC</u></b>                                                                                          |                                                                                                      |    |    |
| <u>"Cobra Watertech" or other approved rubber traps</u>                                                          |                                                                                                      |    |    |
| 26                                                                                                               | 32 x 40mm Butyl rubber P-trap jointed to waste outlet fitting and to 50mm uPVC pipe including clamps | No | 4  |
| 27                                                                                                               | 100mm Diameter cast iron 'P' urinal trap                                                             | No | 3  |
| <b><u>WATER SUPPLIES</u></b>                                                                                     |                                                                                                      |    |    |
| 28                                                                                                               | Excavation in earth not exceeding 1m deep for pipe trenches                                          | m3 | 6  |
| 29                                                                                                               | Backfilling to pipe trenches                                                                         | m3 | 6  |
| <u>Class 10 HDPe type IV pipes</u>                                                                               |                                                                                                      |    |    |
| 30                                                                                                               | 15mm Pipes                                                                                           | m  | 35 |
| 31                                                                                                               | 15mm Pipes chased to brickwork                                                                       | m  | 4  |
| 32                                                                                                               | 22mm Pipes                                                                                           | m  | 18 |
| 33                                                                                                               | 22mm Pipes chased into brick walls                                                                   | m  | 4  |
| 34                                                                                                               | 22mm Pipes laid in and including trenches not exceeding 1m deep                                      | m  | 10 |
| 35                                                                                                               | 28mm pipes                                                                                           | m  | 40 |
| Carried Forward                                                                                                  |                                                                                                      |    | R  |
| Section No. 3<br>Bill No. 10<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                      |    |    |

| Brought Forward                                            |                                                                                                         |    |      | R |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----|------|---|
| <u>Extra over Class 10 HDPe type IV pipes for fittings</u> |                                                                                                         |    |      |   |
| 36                                                         | 15mm Fittings                                                                                           | No | 22   |   |
| 37                                                         | 28mm Fittings                                                                                           | No | 30   |   |
| 38                                                         | 22mm Fittings                                                                                           | No | 18   |   |
| 39                                                         | 22mm Reducer                                                                                            | No | 6    |   |
| 40                                                         | 22mm Bend                                                                                               | No | 6    |   |
| <u>Class 10 HDPe type IV overflow and service pipes</u>    |                                                                                                         |    |      |   |
| 41                                                         | 15mm Bent service pipe average 400mm girth, one end fitted with brass adaptor and jointed to tap, etc., | No | 5    |   |
| 42                                                         | 22mm Bent overflow pipe 500mm girth and joint to fitting                                                | No | 10   |   |
| <u>TESTING</u>                                             |                                                                                                         |    |      |   |
| 43                                                         | Allow for testing the whole of the sanitary plumbing and water supply                                   |    | Item |   |
| Carried Forward to Summary of Section No. 3                |                                                                                                         |    |      | R |
| Section No. 3                                              |                                                                                                         |    |      |   |
| Bill No. 10                                                |                                                                                                         |    |      |   |
| PLUMBING AND DRAINAGE (PROVISIONAL)                        |                                                                                                         |    |      |   |
| KHANYISA SECONDARY SCHOOL                                  |                                                                                                         |    |      |   |
| WIMS: 065544                                               |                                                                                                         |    |      |   |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quantity | Rate | Amount |
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| <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 11</u></b></p> <p><b><u>TILING (PROVISIONAL)(CPAP WORK GROUP NO. 144 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL. IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Patterns</u></p> <p>Unless otherwise described, tiles shall be laid with continuous joints in both directions</p> <p><u>Fixing</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      | R      |
| <p>Section No. 3<br/>Bill No. 11<br/>TILING<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |        |

| Brought Forward                                                                                                                                              |                        |    |    | R |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|----|---|
| Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat                                  |                        |    |    |   |
| Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles  |                        |    |    |   |
| <b><u>WALL TILING</u></b>                                                                                                                                    |                        |    |    |   |
| <b><u>300 x 300 x 8.5mm 'salt and pepper' ceramic tiles on brickwork including cement plaster backing</u></b>                                                |                        |    |    |   |
| 1                                                                                                                                                            | On walls toilets only  | m2 | 50 |   |
| <b><u>FLOOR TILING</u></b>                                                                                                                                   |                        |    |    |   |
| <b><u>300 x 300 x 8.5mm 'salt and pepper' ceramic floor tiles on 10mm bedding on concrete and flush pointed with tinted waterproof jointing compound</u></b> |                        |    |    |   |
| 2                                                                                                                                                            | On floors and landings | m2 | 25 |   |
| <b><u>Edge trimming</u></b>                                                                                                                                  |                        |    |    |   |
| 3                                                                                                                                                            | Metal edge trimming    | m  | 60 |   |
| Carried Forward to Summary of Section No. 3                                                                                                                  |                        |    |    | R |
| Section No. 3                                                                                                                                                |                        |    |    |   |
| Bill No. 11                                                                                                                                                  |                        |    |    |   |
| TILING                                                                                                                                                       |                        |    |    |   |
| KHANYISA SECONDARY SCHOOL                                                                                                                                    |                        |    |    |   |
| WIMS: 065544                                                                                                                                                 |                        |    |    |   |

| Item No |                                                                                                                                                                                                                | Quantity | Rate | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>SECTION No. 3</u></b>                                                                                                                                                                                    |          |      |        |
|         | <b><u>BILL No. 12</u></b>                                                                                                                                                                                      |          |      |        |
|         | <b><u>GLAZING (CPAP WORK GROUP NO. 150<br/>UNLESS OTHERWISE STATED)</u></b>                                                                                                                                    |          |      |        |
|         | <b><u>STANDARD PREAMBLES</u></b>                                                                                                                                                                               |          |      |        |
|         | <u>Note: Model Preambles for Trades 2017 as<br/>published by the Association of South African<br/>Quantity Surveyors shall apply</u>                                                                           |          |      |        |
|         | <u>Float glass</u>                                                                                                                                                                                             |          |      |        |
|         | The term "float glass" is used for monolithic annealed glass                                                                                                                                                   |          |      |        |
|         | <b><u>GLAZING TO STEEL WITH PUTTY</u></b>                                                                                                                                                                      |          |      |        |
|         | <b><u>6mm Clear float glass</u></b>                                                                                                                                                                            |          |      |        |
| 1       | Panes exceeding 0.1m2 and not exceeding 0.5m2                                                                                                                                                                  | m2       | 2    |        |
|         | <b><u>6mm Obscure glass</u></b>                                                                                                                                                                                |          |      |        |
| 2       | Panes exceeding 0.1m2 and not exceeding 0.5m2                                                                                                                                                                  | m2       | 2    |        |
|         | <b><u>MIRRORS, ETC.</u></b>                                                                                                                                                                                    |          |      |        |
|         | <u>6mm Silvered float glass copper backed mirrors with<br/>polished edges holed for and fixed with chromium plated<br/>dome capped mirror screws with rubber buffers to plugs<br/>in brickwork or concrete</u> |          |      |        |
| 3       | Mirror 300 x 400mm high                                                                                                                                                                                        | No       | 2    |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>                                                                                                                                                             |          |      |        |
|         | Section No. 3                                                                                                                                                                                                  |          |      |        |
|         | Bill No. 12                                                                                                                                                                                                    |          |      |        |
|         | GLAZING                                                                                                                                                                                                        |          |      |        |
|         | <b>KHANYISA SECONDARY SCHOOL</b>                                                                                                                                                                               |          |      |        |
|         | <b>WIMS: 065544</b>                                                                                                                                                                                            |          |      |        |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
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| <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 13</u></b></p> <p><b><u>PAINTWORK(CPAP WORK GROUP NO. 152</u></b><br/><b><u>UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      | R      |
| <p>Section No. 3<br/>Bill No. 13<br/>PAINTWORK<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |        |

Brought Forward

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**SUPPLEMENTARY PREAMBLES**

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Architect

SABS Specifications:

Matt or eggshell decorative paint for interior works :  
SANS 515

High gloss enamel paint : SABS 630 Grade I

Oil gloss enamel paint : SABS 631

Primers for wood for external work : SABS 678 Type I

Primers for wood for internal work : SABS 678 Type III

Undercoats for paints (except emulsion paint) : SABS  
681 Type I

Zink chromate primers for steel : SABS 679 Type I

Aluminium paint : SABS 682 Grade II

Structural steel paint : SABS 684 Type B

Roof paints : SABS 683 Type B

Wash primer (metal etch) : SABS 723

Varnish for interior use : SABS 887 Type I

Emulsion paints : SABS 1586

Colours:

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

Carried Forward

R

Section No. 3  
Bill No. 13  
PAINTWORK  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

Brought Forward

Protective Treatment to Structural Steel

Structural Steel work shall be cleaned and prepared by wire brushing in accordance with SABS 064 and all surfaces shall be treated with one coat of red lead primer complying with the SABS 132 type II grade 1 to a minimum thickness of 30 micron.

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Carried Forward

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Section No. 3  
Bill No. 13  
PAINTWORK  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                                                                                                                                                                            |                                                                   |    | R  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|
| <b><u>PAINTWORK ETC TO NEW WORK</u></b>                                                                                                                                                                    |                                                                   |    |    |
| <b><u>"PLASCON" OR OTHER EQUAL AND APPROVED</u></b>                                                                                                                                                        |                                                                   |    |    |
| <b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>                                                                                                                                                         |                                                                   |    |    |
| Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use. |                                                                   |    |    |
| 1                                                                                                                                                                                                          | Walls                                                             | m2 | 90 |
| <b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>                                                                                                                                                               |                                                                   |    |    |
| Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use.                              |                                                                   |    |    |
| 2                                                                                                                                                                                                          | Fascias and barge boards, including priming metal jointing strips | m2 | 9  |
| <b><u>ON WOOD SURFACES</u></b>                                                                                                                                                                             |                                                                   |    |    |
| Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on timber doors         |                                                                   |    |    |
| 3                                                                                                                                                                                                          | On doors                                                          | m2 | 16 |
| 4                                                                                                                                                                                                          | Door frames and linings                                           | m2 | 2  |
| Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint                                                                |                                                                   |    |    |
| 5                                                                                                                                                                                                          | Roof timbers at eaves and verges                                  | m2 | 10 |
| Carried Forward to Summary of Section No. 3                                                                                                                                                                |                                                                   |    | R  |
| Section No. 3                                                                                                                                                                                              |                                                                   |    |    |
| Bill No. 13                                                                                                                                                                                                |                                                                   |    |    |
| PAINTWORK                                                                                                                                                                                                  |                                                                   |    |    |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                                  |                                                                   |    |    |
| WIMS: 065544                                                                                                                                                                                               |                                                                   |    |    |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
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|         | <p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 14</u></b></p> <p><b><u>EXTERNAL WORKS</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>View Site</u></b></p> <p>Before submitting the tender, the contractor shall visit the site and satisfy himself/herself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> |          |      |        |
|         | Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | R    |        |
|         | <p>Section No. 3</p> <p>Bill No. 14</p> <p>EXTERNAL WORKS (PROVISIONAL)</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |        |

| Brought Forward                                                                                                                                      |                                                                                                                                 |    | R  |
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| <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></b>                                                              |                                                                                                                                 |    |    |
| <b><u>CONCRETE V-DRAIN CHANNELS (ALL TRADES) (PROVISIONAL)</u></b>                                                                                   |                                                                                                                                 |    |    |
| Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SANS 1200 series |                                                                                                                                 |    |    |
| <b><u>Excavations in earth not exceeding 2m deep</u></b>                                                                                             |                                                                                                                                 |    |    |
| 1                                                                                                                                                    | To reduce levels                                                                                                                | m3 | 9  |
| <b><u>Extra over excavation in earth for excavation in</u></b>                                                                                       |                                                                                                                                 |    |    |
| 2                                                                                                                                                    | Hard rock                                                                                                                       | m3 | 4  |
| 3                                                                                                                                                    | Intermediate rock                                                                                                               | m3 | 1  |
| 4                                                                                                                                                    | Soft rock                                                                                                                       | m3 | 1  |
| <b><u>Carting away</u></b>                                                                                                                           |                                                                                                                                 |    |    |
| 5                                                                                                                                                    | Extra over excavations for carting away surplus material from the excavations to a dumping site to be located by the contractor | m3 | 12 |
| <b><u>EARTH FILLING, ETC</u></b>                                                                                                                     |                                                                                                                                 |    |    |
| <b><u>Earth filling supplied by the contractor under pavings, etc.</u></b>                                                                           |                                                                                                                                 |    |    |
| 6                                                                                                                                                    | 150mm G5 Material in accordance with SABS 1200 DM compacted to 98% Mod. AASHTO density                                          | m3 | 10 |
| Carried Forward                                                                                                                                      |                                                                                                                                 |    | R  |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                            |                                                                                                                                 |    |    |

| Brought Forward                                                                                           |                                                                                                                                                                                                               |    | R  |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>COMPACTION</u></b>                                                                                  |                                                                                                                                                                                                               |    |    |
| <u>Compaction of surfaces</u>                                                                             |                                                                                                                                                                                                               |    |    |
| 7                                                                                                         | Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod. AASHTO density | m2 | 44 |
| <b><u>TESTS</u></b>                                                                                       |                                                                                                                                                                                                               |    |    |
| <u>Prescribed density tests on filling</u>                                                                |                                                                                                                                                                                                               |    |    |
| 8                                                                                                         | Modified AASHTO Density test                                                                                                                                                                                  | No | 2  |
| <b><u>SOIL POISONING</u></b>                                                                              |                                                                                                                                                                                                               |    |    |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                      |                                                                                                                                                                                                               |    |    |
| 9                                                                                                         | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                             | m2 | 44 |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b>      |                                                                                                                                                                                                               |    |    |
| <u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>                                                            |                                                                                                                                                                                                               |    |    |
| <u>20Mpa/19mm Concrete</u>                                                                                |                                                                                                                                                                                                               |    |    |
| 10                                                                                                        | Surface beds, slabs, etc., to falls and currents                                                                                                                                                              | m3 | 6  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                                                                                               |    |    |
| <u>Finishing top surfaces of concrete with a wood float finish</u>                                        |                                                                                                                                                                                                               |    |    |
| 11                                                                                                        | Concrete channel to falls                                                                                                                                                                                     | m2 | 44 |
| Carried Forward                                                                                           |                                                                                                                                                                                                               |    | R  |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                               |    |    |

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| Brought Forward                                                                                                                                |                                                                    |    | R  |  |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u></b>                                                                 |                                                                    |    |    |  |
| <b><u>Rough formwork to sides</u></b>                                                                                                          |                                                                    |    |    |  |
| 12                                                                                                                                             | Apron slabs, paving and ramps not exceeding 300mm high             | m  | 44 |  |
| <b><u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces</u></b>                                                |                                                                    |    |    |  |
| 13                                                                                                                                             | 10mm Joints not exceeding 300mm high                               | m  | 44 |  |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                                                            |                                                                    |    |    |  |
| <b><u>Fabric reinforcement</u></b>                                                                                                             |                                                                    |    |    |  |
| 14                                                                                                                                             | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 44 |  |
| <b><u>WATERPROOFING (CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                                  |                                                                    |    |    |  |
| <b><u>JOINT SEALANTS, ETC</u></b>                                                                                                              |                                                                    |    |    |  |
| <b><u>"ABE Flexothane" or other approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b> |                                                                    |    |    |  |
| 15                                                                                                                                             | In 10mm joints not exceeding 300mm high                            | m  | 44 |  |
| Carried Forward                                                                                                                                |                                                                    |    | R  |  |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                      |                                                                    |    |    |  |

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| Brought Forward                                                                                                                                                                                      |                                          |    | R |  |
| <b><u>WATER TANK SUPPORTS (ALL TRADES)</u></b>                                                                                                                                                       |                                          |    |   |  |
| <b><u>(PROVISIONAL)</u></b>                                                                                                                                                                          |                                          |    |   |  |
| <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK</u></b>                                                                                                                                                     |                                          |    |   |  |
| <b><u>GROUP NO. 104 UNLESS OTHERWISE</u></b>                                                                                                                                                         |                                          |    |   |  |
| <b><u>STATED)</u></b>                                                                                                                                                                                |                                          |    |   |  |
| <b><u>EXCAVATION OTHER THAN BULK</u></b>                                                                                                                                                             |                                          |    |   |  |
| <u>Excavation in earth not exceeding 2m deep</u>                                                                                                                                                     |                                          |    |   |  |
| 16                                                                                                                                                                                                   | Bases                                    | m3 | 6 |  |
| <u>Extra over trench and hole excavation in earth for excavation in</u>                                                                                                                              |                                          |    |   |  |
| 17                                                                                                                                                                                                   | Hard rock                                | m3 | 1 |  |
| <b><u>CARTING AWAY</u></b>                                                                                                                                                                           |                                          |    |   |  |
| <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk)</u>                                                               |                                          |    |   |  |
| 18                                                                                                                                                                                                   | Off site to be located by the contractor | m3 | 6 |  |
| <b><u>EARTH FILLING, ETC</u></b>                                                                                                                                                                     |                                          |    |   |  |
| <b><u>Note: All filling whether obtained from the excavations, from stockpiles or by the contractor from an outside source must be selected and approved by the Structural / Civil Engineers</u></b> |                                          |    |   |  |
| <u>Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density</u>                                                                                         |                                          |    |   |  |
| 19                                                                                                                                                                                                   | Backfilling to trenches, holes, etc.     | m3 | 4 |  |
| Carried Forward                                                                                                                                                                                      |                                          |    | R |  |
| Section No. 3                                                                                                                                                                                        |                                          |    |   |  |
| Bill No. 14                                                                                                                                                                                          |                                          |    |   |  |
| EXTERNAL WORKS (PROVISIONAL)                                                                                                                                                                         |                                          |    |   |  |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                            |                                          |    |   |  |
| WIMS: 065544                                                                                                                                                                                         |                                          |    |   |  |

| Brought Forward                                                                                                   |                                                                                                                                                                                                                |       | R |
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| <b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>                                                                   |                                                                                                                                                                                                                |       |   |
| <u>Keeping excavations free of water</u>                                                                          |                                                                                                                                                                                                                |       |   |
| 20                                                                                                                | Allow for keeping excavations free of water or mud by hand or machinery                                                                                                                                        | Item  |   |
| <b><u>COMPACTION</u></b>                                                                                          |                                                                                                                                                                                                                |       |   |
| <u>Compaction of surfaces</u>                                                                                     |                                                                                                                                                                                                                |       |   |
| 21                                                                                                                | Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod. AASHTO density. | m2 7  |   |
| <b><u>TESTS</u></b>                                                                                               |                                                                                                                                                                                                                |       |   |
| <u>Prescribed density tests on filling</u>                                                                        |                                                                                                                                                                                                                |       |   |
| 22                                                                                                                | Modified AASHTO Density test                                                                                                                                                                                   | No 1  |   |
| <b><u>SOIL POISONING</u></b>                                                                                      |                                                                                                                                                                                                                |       |   |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                              |                                                                                                                                                                                                                |       |   |
| 23                                                                                                                | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                              | m2 14 |   |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b> |                                                                                                                                                                                                                |       |   |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>                                               |                                                                                                                                                                                                                |       |   |
| <u>10MPa Concrete</u>                                                                                             |                                                                                                                                                                                                                |       |   |
| 24                                                                                                                | Surface blinding under footings, bases, etc.                                                                                                                                                                   | m3 2  |   |
| Carried Forward                                                                                                   |                                                                                                                                                                                                                |       | R |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544         |                                                                                                                                                                                                                |       |   |

| Brought Forward                                                                                           |                                                                                                                                                                                       |      | R   |
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| <b><u>REINFORCED CONCRETE</u></b>                                                                         |                                                                                                                                                                                       |      |     |
| <u>25MPa/19mm Concrete</u>                                                                                |                                                                                                                                                                                       |      |     |
| 25                                                                                                        | Surface beds                                                                                                                                                                          | m3   | 2   |
| 26                                                                                                        | Bases                                                                                                                                                                                 | m3   | 4   |
| <b><u>TEST BLOCKS</u></b>                                                                                 |                                                                                                                                                                                       |      |     |
| <u>Test blocks</u>                                                                                        |                                                                                                                                                                                       |      |     |
| 27                                                                                                        | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 1.0 |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                                                                       |      |     |
| <u>Finishing top surfaces of concrete with a wood float</u>                                               |                                                                                                                                                                                       |      |     |
| 28                                                                                                        | Surface beds, slabs, etc.                                                                                                                                                             | m2   | 12  |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP NO. 111)</u></b>                           |                                                                                                                                                                                       |      |     |
| <u>Rough formwork to sides</u>                                                                            |                                                                                                                                                                                       |      |     |
| 29                                                                                                        | Edges, risers, ends and reveals not exceeding 300mm high or wide                                                                                                                      | m    | 14  |
| <u>Boxing in smooth formwork to form</u>                                                                  |                                                                                                                                                                                       |      |     |
| 30                                                                                                        | 50mm Horizontal chamfer at corner                                                                                                                                                     | m    | 14  |
| Carried Forward                                                                                           |                                                                                                                                                                                       |      | R   |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                       |      |     |

|                                                                                                           |                                                                                                                                                                                          |    |      |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| Brought Forward                                                                                           |                                                                                                                                                                                          |    | R    |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                       |                                                                                                                                                                                          |    |      |
| <u>Mild steel reinforcement to structural concrete work</u>                                               |                                                                                                                                                                                          |    |      |
| 31                                                                                                        | 10mm Diameter bars                                                                                                                                                                       | t  | 0.80 |
| <b><u>MASONRY (CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u></b>                                   |                                                                                                                                                                                          |    |      |
| <b><u>BRICKWORK IN FOUNDATIONS</u></b>                                                                    |                                                                                                                                                                                          |    |      |
| <u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u>       |                                                                                                                                                                                          |    |      |
| 32                                                                                                        | One brick wall                                                                                                                                                                           | m2 | 8    |
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                          |                                                                                                                                                                                          |    |      |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                             |                                                                                                                                                                                          |    |      |
| 33                                                                                                        | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 4    |
| <u>Brickwork reinforcement</u>                                                                            |                                                                                                                                                                                          |    |      |
| 34                                                                                                        | 150mm Wide reinforcement built in horizontally                                                                                                                                           | m  | 52   |
| Carried Forward                                                                                           |                                                                                                                                                                                          |    | R    |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                          |    |      |

| Brought Forward                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                        |    | R |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| <b><u>FACE BRICKWORK</u></b>                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u> |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| 35                                                                                                                                       | Extra over brickwork for face brickwork                                                                                                                                                                                                                                                                                                                                | m2 | 8 |
| <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148</u></b>                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>UNLESS OTHERWISE STATED)</u></b>                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>WATER SUPPLIES AND FIRE SERVICES</u></b>                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <u>"Cobra Watertech" or other approved</u>                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| 36                                                                                                                                       | 15mm Rough brass hose bib tap as 'Cobra Watertech' Ref. No. 108-15 or other equal and approved including hose union, wall plate elbow, etc. with couplings for copper                                                                                                                                                                                                  | No | 1 |
| <b><u>TANKS, ETC</u></b>                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <u>Polyethylene drinking water tanks</u>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| 37                                                                                                                                       | 5000 Litre low profile circular tank size 2250mm diameter x 1800mm high, with access lid and inlet hole, embedded in pedestal to a minimum of 400mm above ground level and tied down with 2 No. off 4mm galvanised double strap stay wires tied to galvanised mild steel M12 eye bolt of which is to be drilled and fixed to the 4 corners of concrete supporting base | No | 1 |
| <b><u>INFILTRATOR CHAMBER SYSTEM</u></b>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| Carried Forward                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                        |    | R |
| Section No. 3<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                |                                                                                                                                                                                                                                                                                                                                                                        |    |   |

| Brought Forward                                                   |                                                 |    |   | R |
|-------------------------------------------------------------------|-------------------------------------------------|----|---|---|
| <u>"KAYTECH" or equal and approved infiltrator chamber system</u> |                                                 |    |   |   |
| 38                                                                | 710 x 1000 x 410mm High, high capacity end cap  | No | 1 |   |
| 39                                                                | 1220 x 1000 x 410mm High, high capacity chamber | No | 1 |   |
| Carried Forward to Summary of Section No. 3                       |                                                 |    |   | R |
| Section No. 3                                                     |                                                 |    |   |   |
| Bill No. 14                                                       |                                                 |    |   |   |
| EXTERNAL WORKS (PROVISIONAL)                                      |                                                 |    |   |   |
| KHANYISA SECONDARY SCHOOL                                         |                                                 |    |   |   |
| WIMS: 065544                                                      |                                                 |    |   |   |

**SECTION SUMMARY - TYPE E - PIT - LEARNERS BOYS - 3 NO. WC SEATS -**

| Bill No                                                    |                                                                           | Page No | Amount |
|------------------------------------------------------------|---------------------------------------------------------------------------|---------|--------|
| 1                                                          | EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED) | 41      |        |
| 2                                                          | CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)                        | 47      |        |
| 3                                                          | MASONRY (PROVISIONAL)                                                     | 51      |        |
| 4                                                          | WATERPROOFING                                                             | 52      |        |
| 5                                                          | ROOF COVERINGS, ETC.                                                      | 54      |        |
| 6                                                          | CARPENTRY AND JOINERY                                                     | 57      |        |
| 7                                                          | IRONMONGERY                                                               | 59      |        |
| 8                                                          | METALWORK                                                                 | 61      |        |
| 9                                                          | PLASTERING                                                                | 64      |        |
| 10                                                         | PLUMBING AND DRAINAGE (PROVISIONAL)                                       | 71      |        |
| 11                                                         | TILING                                                                    | 73      |        |
| 12                                                         | GLAZING                                                                   | 74      |        |
| 13                                                         | PAINTWORK                                                                 | 78      |        |
| 14                                                         | EXTERNAL WORKS (PROVISIONAL)                                              | 88      |        |
| Carried to Final Summary                                   |                                                                           |         | R      |
| Section No. 3<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                           |         |        |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Rate | Amount |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><b><u>Testing of material and filling</u></b></p> <p><b><u>SITE CLEARANCE ETC</u></b></p> <p><b><u>User Note:</u></b></p> <p>Where the value is of significance, the removal of hedges etc shall be given separately in meters or in number</p> <p><b><u>Site clearance</u></b></p> |          |      |        |
| 1       | <p>Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m2       | 200  |        |
|         | <p><b><u>REMOVAL OF TREES ETC</u></b></p> <p><b><u>Taking out and removing, grubbing up roots, filling in holes and cart away to nearest dumpsite</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |        |
| 2       | <p>Extra over excavations for carting away surplus material from the excavations to a dumping site to be located by the contractor</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m3       | 2    |        |
|         | <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4<br/>Bill No. 1<br/>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | R    |        |

|                                                                          |                                                                                                                 |    |    |  |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----|----|--|
| Brought Forward                                                          |                                                                                                                 |    | R  |  |
| <b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b>                  |                                                                                                                 |    |    |  |
| <u>Excavation in earth not exceeding 2m deep</u>                         |                                                                                                                 |    |    |  |
| 3                                                                        | Reduced levels under floors                                                                                     | m3 | 10 |  |
| 4                                                                        | Trenches                                                                                                        | m3 | 3  |  |
| 5                                                                        | Pit                                                                                                             | m3 | 25 |  |
| <u>Excavation in earth exceeding 2m deep</u>                             |                                                                                                                 |    |    |  |
| 6                                                                        | Pit                                                                                                             | m3 | 15 |  |
| <u>Extra over trench and hole excavations in earth for excavation in</u> |                                                                                                                 |    |    |  |
| 7                                                                        | Intermediate material                                                                                           | m3 | 6  |  |
| 8                                                                        | Hard rock                                                                                                       | m3 | 4  |  |
| <u>Working space for pits</u>                                            |                                                                                                                 |    |    |  |
| 9                                                                        | Working space for pits                                                                                          | m2 | 9  |  |
| <u>Risk of collapse of excavations</u>                                   |                                                                                                                 |    |    |  |
| 10                                                                       | Sides of trench and hole excavations not exceeding 1,5m deep                                                    | m2 | 9  |  |
| <u>Extra over all excavations for carting away</u>                       |                                                                                                                 |    |    |  |
| 11                                                                       | Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor | m3 | 45 |  |
| <u>Risk of collapse of excavations</u>                                   |                                                                                                                 |    |    |  |
| 12                                                                       | Sides of trench and hole excavations not exceeding 1,5m deep                                                    | m2 | 20 |  |
| Carried Forward                                                          |                                                                                                                 |    | R  |  |
| Section No. 4                                                            |                                                                                                                 |    |    |  |
| Bill No. 1                                                               |                                                                                                                 |    |    |  |
| EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP                                 |                                                                                                                 |    |    |  |
| KHANYISA SECONDARY SCHOOL                                                |                                                                                                                 |    |    |  |
| WIMS: 065544                                                             |                                                                                                                 |    |    |  |

| Brought Forward                                                     |                                                                                                                                                                                                                |       | R |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|
| <u>Keeping excavations free of water</u>                            |                                                                                                                                                                                                                |       |   |
| 13                                                                  | Keeping excavations free of all water other than subterranean water                                                                                                                                            | Item  |   |
| <b><u>FILLING ETC</u></b>                                           |                                                                                                                                                                                                                |       |   |
| <u>Earth filling supplied by the contractor under pavings, etc.</u> |                                                                                                                                                                                                                |       |   |
| 14                                                                  | 150mm G5 Material in accordance with SABS 1200 DM compacted to 98% Mod. AASHTO density                                                                                                                         | m3 6  |   |
| <u>Compaction of surfaces</u>                                       |                                                                                                                                                                                                                |       |   |
| 15                                                                  | Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod. AASHTO density | m2 20 |   |
| <u>Prescribed density tests on filling</u>                          |                                                                                                                                                                                                                |       |   |
| 16                                                                  | "Modified AASHTO Density" test                                                                                                                                                                                 | No 1  |   |
| 17                                                                  | "Field Density" test including "Optimum Moisture Content" (four readings per test)                                                                                                                             | No 1  |   |
| <b><u>SOIL POISONING</u></b>                                        |                                                                                                                                                                                                                |       |   |
| <u>Soil Insecticide in accordance with SANS 5859</u>                |                                                                                                                                                                                                                |       |   |
| 18                                                                  | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                              | m2 20 |   |
| <b>Carried Forward to Summary of Section No. 4</b>                  |                                                                                                                                                                                                                |       | R |
| Section No. 4                                                       |                                                                                                                                                                                                                |       |   |
| Bill No. 1                                                          |                                                                                                                                                                                                                |       |   |
| EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP                            |                                                                                                                                                                                                                |       |   |
| KHANYISA SECONDARY SCHOOL                                           |                                                                                                                                                                                                                |       |   |
| WIMS: 065544                                                        |                                                                                                                                                                                                                |       |   |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity | Rate | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p>Cost of tests</p> <p>The costs of making, storing and testing of concrete test cubes as required under Clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p>Formwork</p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | R    |        |
|         | <p>Section No. 4</p> <p>Bill No. 2</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT (PR</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |        |

**Brought Forward**

Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

15MPa Concrete

|   |                                           |    |    |
|---|-------------------------------------------|----|----|
| 1 | Surface blinding under footings and bases | m3 | 10 |
|---|-------------------------------------------|----|----|

**REINFORCED CONCRETE CAST ON/IN FORMWORK**

25MPa/19mm Concrete

|   |                                                     |    |    |
|---|-----------------------------------------------------|----|----|
| 2 | Foundation beams                                    | m3 | 10 |
| 3 | Surface beds on waterproofing, including thickening | m3 | 20 |
| 4 | Slabs including beams and inverted beams (LI)       | m3 | 9  |
| 5 | Concrete nib, etc                                   | m3 | 3  |
| 6 | Pit base                                            | m3 | 10 |

**Carried Forward**

Section No. 4  
Bill No. 2  
CONCRETE, FORMWORK AND REINFORCEMENT (PR  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

R

R

Brought Forward

R

**PRECAST CONCRETE (CPAP WORK GROUP 112)**

Precast concrete cover slab 80mm thick formed of 25Mpa/19mm concrete with class 1 smooth finish on exposed surfaces splayed 25mm at edges with ref. 193 mesh reinforcement and 2no. 15mm diameter polycop pipe sleeves cast in to receive 2no. threaded 10mm diameter galvanised L-shaped lifting handles with 50 x 50 x 5mm holed plates, nuts and lock nuts, including holes to fit 110mm diameter vent pipe, etc. laid on brick walls

|    |                                  |    |   |
|----|----------------------------------|----|---|
| 7  | Cover slab size 860 x 930mm (LI) | No | 1 |
| 8  | Cover slab size 870 x 930mm (LI) | No | 1 |
| 9  | Cover slab size 820 x 930mm (LI) | No | 1 |
| 10 | Cover slab size 825 x 930mm (LI) | No | 1 |

**CONCRETE SUNDRIES**

Sleeves

|    |                                                                                                                                             |    |    |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 11 | 110mm Diameter pipe and socket cast in concrete formed of 130mm long black pipe uPVC welded to 100mm long uPVC pipe with single socket (LI) | No | 10 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|----|----|

Finishing top surfaces of concrete smooth with a wood float

|    |                           |    |    |
|----|---------------------------|----|----|
| 12 | Surface beds, slabs, etc. | m2 | 30 |
|----|---------------------------|----|----|

Test blocks

|    |                                                                   |    |   |
|----|-------------------------------------------------------------------|----|---|
| 13 | Making and testing 150 x 150 x 150mm concrete strength test cubes | No | 3 |
|----|-------------------------------------------------------------------|----|---|

Carried Forward

R

Section No. 4  
Bill No. 2  
CONCRETE, FORMWORK AND REINFORCEMENT (PR  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

|                                                                                                                      |                                                                   |    |    |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|
| Brought Forward                                                                                                      |                                                                   |    | R  |
| <b><u>FORMWORK (CPAP WORK GROUP NO. 111<br/>UNLESS OTHERWISE STATED)</u></b>                                         |                                                                   |    |    |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                                                 |                                                                   |    |    |
| <u>Rough formwork to sides</u>                                                                                       |                                                                   |    |    |
| 14                                                                                                                   | Foundation beams (Provisional), etc (LI)                          | m2 | 34 |
| 15                                                                                                                   | Edges, risers, ends and reveals not exceeding 300mm high or wide  | m  | 30 |
| <u>Formwork to soffit of slab</u>                                                                                    |                                                                   |    |    |
| 16                                                                                                                   | Slabs, propped up exceeding 1.5m and not exceeding 3.5m high (LI) | m2 | 30 |
| <u>Rough formwork to sides and soffits</u>                                                                           |                                                                   |    |    |
| 17                                                                                                                   | Beams propped up exceeding 1.5m and not exceeding 3.5m high (LI)  | m2 | 21 |
| <b><u>MOVEMENT JOINTS, ETC.</u></b>                                                                                  |                                                                   |    |    |
| <u>Slip joints between horizontal concrete and brick surfaces with two layers of 3 ply malthoid</u>                  |                                                                   |    |    |
| 18                                                                                                                   | Not exceeding 300mm wide (LI)                                     | m  | 31 |
| <u>Expansion joints with bitumen impregnated fibreboard between vertical concrete surfaces</u>                       |                                                                   |    |    |
| 19                                                                                                                   | 13mm Joints not exceeding 300mm high                              | m  | 30 |
| Carried Forward                                                                                                      |                                                                   |    | R  |
| Section No. 4<br>Bill No. 2<br>CONCRETE, FORMWORK AND REINFORCEMENT (PR<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                   |    |    |

| Brought Forward                                                     |                                                             |    | R    |
|---------------------------------------------------------------------|-------------------------------------------------------------|----|------|
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b> |                                                             |    |      |
| <u>High tensile steel reinforcement to structural concrete work</u> |                                                             |    |      |
| 20                                                                  | Bars of varying diameters                                   | t  | 1.70 |
| <u>Fabric reinforcement</u>                                         |                                                             |    |      |
| 21                                                                  | Type 193 fabric reinforcement in concrete surface beds, etc | m2 | 70   |
| Carried Forward to Summary of Section No. 4                         |                                                             |    | R    |
| Section No. 4                                                       |                                                             |    |      |
| Bill No. 2                                                          |                                                             |    |      |
| CONCRETE, FORMWORK AND REINFORCEMENT (PR                            |                                                             |    |      |
| KHANYISA SECONDARY SCHOOL                                           |                                                             |    |      |
| WIMS: 065544                                                        |                                                             |    |      |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Rate | Amount |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 3</u></b></p> <p><b><u>MASONRY(CPAP WORK GROUP NO. 116</u></b><br/><b><u>UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc.</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> |          |      |        |
|         | <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4<br/>Bill No. 3<br/>MASONRY (PROVISIONAL)<br/><b>KHANYISA SECONDARY SCHOOL</b><br/><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | R    |        |

| Brought Forward                                                                                                                                                  |                                 |    | R   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----|-----|
| <u>Face bricks</u>                                                                                                                                               |                                 |    |     |
| Bricks shall be ordered timeously to obtain uniformity in size and colour                                                                                        |                                 |    |     |
| <u>Pointing</u>                                                                                                                                                  |                                 |    |     |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc |                                 |    |     |
| <b><u>BRICKWORK</u></b>                                                                                                                                          |                                 |    |     |
| <b><u>FOUNDATIONS (PROVISIONAL)</u></b>                                                                                                                          |                                 |    |     |
| <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>                                                 |                                 |    |     |
| 1                                                                                                                                                                | One brick walls                 | m2 | 40  |
| <b><u>SUPERSTRUCTURE</u></b>                                                                                                                                     |                                 |    |     |
| <u>Brickwork of NFP bricks in class II mortar</u>                                                                                                                |                                 |    |     |
| 2                                                                                                                                                                | Piers                           | m3 | 2   |
| 3                                                                                                                                                                | Half brick walls                | m2 | 55  |
| 4                                                                                                                                                                | Half brick walls in beamfilling | m2 | 73  |
| 5                                                                                                                                                                | One brick walls                 | m2 | 221 |
| Carried Forward                                                                                                                                                  |                                 |    | R   |
| Section No. 4<br>Bill No. 3<br>MASONRY (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                |                                 |    |     |

| Brought Forward                                                                                   |                                                                                                                                                                                          |    | R   |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                  |                                                                                                                                                                                          |    |     |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                     |                                                                                                                                                                                          |    |     |
| 6                                                                                                 | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 50  |
| <u>Brickwork reinforcement</u>                                                                    |                                                                                                                                                                                          |    |     |
| 7                                                                                                 | 75mm Wide reinforcement built in horizontally                                                                                                                                            | m  | 45  |
| 8                                                                                                 | 150mm Wide reinforcement built in horizontally                                                                                                                                           | m  | 210 |
| <u>Prestressed fabricated concrete lintels including necessary temporary supports</u>             |                                                                                                                                                                                          |    |     |
| 9                                                                                                 | 110 x 75mm Lintels in lengths not exceeding 3m                                                                                                                                           | m  | 20  |
| <u>Turning pieces to lintels, etc.</u>                                                            |                                                                                                                                                                                          |    |     |
| 10                                                                                                | 230mm Wide turning pieces                                                                                                                                                                | m  | 20  |
| <u>Galvanised hoop iron cramps, ties, etc</u>                                                     |                                                                                                                                                                                          |    |     |
| 11                                                                                                | 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber                                                                                            | No | 20  |
| <u>Air bricks etc</u>                                                                             |                                                                                                                                                                                          |    |     |
| 12                                                                                                | 229 x 152mm Terra-cotta vermin proof air brick                                                                                                                                           | No | 15  |
| Carried Forward                                                                                   |                                                                                                                                                                                          |    | R   |
| Section No. 4<br>Bill No. 3<br>MASONRY (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                          |    |     |

| Brought Forward                                                                                                                                                      |                                                                                       |    | R   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|-----|
| <b><u>FACE BRICKWORK</u></b>                                                                                                                                         |                                                                                       |    |     |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u>                             |                                                                                       |    |     |
| 13                                                                                                                                                                   | Extra over brickwork for face brickwork                                               | m2 | 106 |
| 14                                                                                                                                                                   | Extra over brickwork for brick-on-edge header course lintel                           | m  | 12  |
| 15                                                                                                                                                                   | Extra over brickwork for face brick piers                                             | m3 | 2   |
| 16                                                                                                                                                                   | Extra over solid brick on end of brick on edge sill                                   | No | 10  |
| 17                                                                                                                                                                   | Fair cutting and fitting around pipe not exceeding 100mm diameter                     | No | 10  |
| 18                                                                                                                                                                   | Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter | No | 6   |
| <u>Brick-on-edge header course copings, sills, etc. of "Corobrik Travertine FBA" or other approved face bricks pointed with recessed joints on all exposed faces</u> |                                                                                       |    |     |
| 19                                                                                                                                                                   | 220mm Wide sill set sloping and slightly projecting                                   | m  | 5   |
| <b><u>"NUTEC" OR OTHER APPROVED FIBRE-CEMENT WINDOW SILLS</u></b>                                                                                                    |                                                                                       |    |     |
| <u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.</u>                                                                |                                                                                       |    |     |
| 20                                                                                                                                                                   | 150 x 15mm Thick sills set flat and slightly projecting                               | m  | 4   |
| Carried Forward to Summary of Section No. 4                                                                                                                          |                                                                                       |    | R   |
| Section No. 4                                                                                                                                                        |                                                                                       |    |     |
| Bill No. 3                                                                                                                                                           |                                                                                       |    |     |
| MASONRY (PROVISIONAL)                                                                                                                                                |                                                                                       |    |     |
| KHANYISA SECONDARY SCHOOL                                                                                                                                            |                                                                                       |    |     |
| WIMS: 065544                                                                                                                                                         |                                                                                       |    |     |

| Item No |                                                                                                                                      | Quantity | Rate | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <b><u>SECTION No. 4</u></b>                                                                                                          |          |      |        |
|         | <b><u>BILL No. 4</u></b>                                                                                                             |          |      |        |
|         | <b><u>WATERPROOFING(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                         |          |      |        |
|         | <b><u>STANDARD PREAMBLES</u></b>                                                                                                     |          |      |        |
|         | <u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u>         |          |      |        |
|         | <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>                                                                                       |          |      |        |
|         | <u>One layer 375 micron Hyperlastic Orange DPM with 3mm thick with masonite protection (all external faces of pit)</u>               |          |      |        |
| 1       | Pit walls                                                                                                                            | m2       | 35   |        |
|         | <u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u> |          |      |        |
| 2       | Under surface beds, slabs, etc.                                                                                                      | m2       | 50   |        |
|         | <u>Two coats "ABE Brixal" or other approved bitumen emulsion waterproof coating</u>                                                  |          |      |        |
| 3       | On brick walls                                                                                                                       | m2       | 68   |        |
|         | <b><u>JOINT SEALANTS, ETC.</u></b>                                                                                                   |          |      |        |
|         | <u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>                                |          |      |        |
| 4       | 13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary         | m        | 20   |        |
|         | <b>Carried Forward to Summary of Section No. 4</b>                                                                                   |          |      |        |
|         | Section No. 4                                                                                                                        |          |      |        |
|         | Bill No. 4                                                                                                                           |          |      |        |
|         | WATERPROOFING                                                                                                                        |          |      |        |
|         | <b>KHANYISA SECONDARY SCHOOL</b>                                                                                                     |          |      |        |
|         | <b>WIMS: 065544</b>                                                                                                                  |          |      |        |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity | Rate | Amount |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 5</u></b></p> <p><b><u>ROOF COVERINGS, ETC.(CPAP WORK GROUP NO. 125 UNLESS OTHERWISE STATED)</u></b></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2017</i></p> <p><i>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</i></p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      | R      |
| <p>Section No. 4<br/>Bill No. 5<br/>ROOF COVERINGS ETC<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |        |

| Brought Forward                                                                                                                                                                  |                                                                                                                   |    | R  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>                                                                                                                            |                                                                                                                   |    |    |
| <u>0.53mm Colorbond IBR profile sheeting, colour one side fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u> |                                                                                                                   |    |    |
| 1                                                                                                                                                                                | Roof covering with pitches not exceeding 25 degrees                                                               | m2 | 40 |
| 2                                                                                                                                                                                | Standard galvanised ridge capping (550mm girth) screwed through sheeting to purlins                               | m  | 20 |
| 3                                                                                                                                                                                | Close cut and mitred hips including 0,6mm thick galvanised sheet iron soakers and necessary additional battens    | m  | 20 |
| 4                                                                                                                                                                                | Close cut and mitred valleys including 0,6mm thick galvanised sheet iron soakers and necessary additional battens | m  | 20 |
| 5                                                                                                                                                                                | Sondor IBR pattern polyclosures to underside of ridge capping                                                     | m  | 20 |
| 6                                                                                                                                                                                | Sondor IBR corrugated pattern metal closers under capping                                                         | m  | 20 |
| 7                                                                                                                                                                                | Ridge end cap                                                                                                     | No | 4  |
| 8                                                                                                                                                                                | Eaves fillers                                                                                                     | m  | 40 |
| 9                                                                                                                                                                                | Cover flashing 100mm girth                                                                                        | m  | 20 |
| <u>Polycarbonate translucent IBR shape roof sheeting</u>                                                                                                                         |                                                                                                                   |    |    |
| 10                                                                                                                                                                               | Roof covering with pitch not exceeding 25 degrees                                                                 | m2 | 20 |
| Carried Forward                                                                                                                                                                  |                                                                                                                   |    | R  |
| Section No. 4<br>Bill No. 5<br>ROOF COVERINGS ETC<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                   |                                                                                                                   |    |    |

Brought Forward

R

**ROOF INSULATION**

"Sisalation 430" or equally approved heavy industrial  
grade reinforced aluminium foil based insulation

11

Insulation fixed to top of rafters

m2

40

**Carried Forward to Summary of Section No. 4**

Section No. 4

Bill No. 5

ROOF COVERINGS ETC

**KHANYISA SECONDARY SCHOOL**

**WIMS: 065544**

R

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quantity | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><b><u>Fixing</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      | R      |
| <p>Section No. 4<br/>Bill No. 6<br/>CARPENTRY AND JOINERY<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |        |

Brought Forward

R

**PREFABRICATED TIMBER ROOF TRUSSES, ETC**

NOTE: Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members). The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is IBR profiled metal sheeting colour one side on 50 x 76mm purlins. Ceilings are nailed gypsum plasterboard on brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences.

**Design and supply plate nailed timber roof trusses**

- 1 Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 26m<sup>2</sup> (on flat floor area inclusive of overhangs)

No

1

- 2 Allowance for the issue of TR1 and TR2 certificates after completion of entire roof installation, signed by a competent person

Item

Carried Forward

R

Section No. 4  
Bill No. 6  
CARPENTRY AND JOINERY  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                       |                                                                                                                  |   | R  |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---|----|
| <u>Wrought softwood</u>                               |                                                                                                                  |   |    |
| 3                                                     | 38 x 114mm Wall plates                                                                                           | m | 15 |
| 4                                                     | 76 x 50mm Purlins                                                                                                | m | 50 |
| 5                                                     | 76 x 76mm Splayed gutter purlins                                                                                 | m | 15 |
| <u>Sawn softwood Grade 7</u>                          |                                                                                                                  |   |    |
| 6                                                     | 38 x 228mm Beam built into the brickwork                                                                         | m | 10 |
| <b><u>EAVES, VERGES, ETC.</u></b>                     |                                                                                                                  |   |    |
| <u>Nutec fibre-cement or other equal and approved</u> |                                                                                                                  |   |    |
| 7                                                     | 12mm x 225mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers | m | 12 |
| 8                                                     | 10 x 80 x 200mm Barge boards including H-profile jointing strips                                                 | m | 12 |
| Carried Forward                                       |                                                                                                                  |   | R  |

Section No. 4

Bill No. 6

CARPENTRY AND JOINERY

**KHANYISA SECONDARY SCHOOL**

**WIMS: 065544**

Brought Forward

R

**DOORS ETC**

Wrought softwood doors hung to steel frames

- 9 40mm Framed ledged, braced and battened door size 762 x 1932mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, hung 100mm from finished floor level (Refer to Door Schedule D1 on drawing - 6B-TB-WB)

No

3

- 10 40mm Framed ledged, braced and battened door size 813 x 2032mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, hung to steel frame (elsewhere measured) (Refer to Door Schedule D2 on drawing - 6B-TB-WB)

No

2

**"TDM" purpose made laminated doors with commercial veneer**

- 11 44mm Solid flush panel door 1696 x 2032mm high with rebated meeting stiles

No

1

Carried Forward to Summary of Section No. 4

R

Section No. 4

Bill No. 6

CARPENTRY AND JOINERY

KHANYISA SECONDARY SCHOOL

WIMS: 065544

## STANDARD PREAMBLES

"Union" or other approved

No

3

R

-110-

| Brought Forward                                                                         |                                                               |    | R |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|----|---|
| <u>"Dorma" or other approved</u>                                                        |                                                               |    |   |
| 2                                                                                       | "DRR-SS-012" 102 x 75 x 3mm Stainless steel rising butt hinge | No | 4 |
| <u>LOCKS</u>                                                                            |                                                               |    |   |
| <u>"Union" or other approved</u>                                                        |                                                               |    |   |
| 3                                                                                       | " 2247-7855 Commercial Series" Four lever mortice lock        | No | 4 |
| <u>HANDLES</u>                                                                          |                                                               |    |   |
| <u>"Union" or other approved</u>                                                        |                                                               |    |   |
| 4                                                                                       | "CB862-05CH" Brass Gower lever handles                        | No | 4 |
| Carried Forward                                                                         |                                                               |    | R |
| Section No. 4<br>Bill No. 7<br>IRONMONGERY<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                               |    |   |

| Brought Forward                             |                                                                                                                                                                                                                                                             |    | R |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| <b><u>SUNDRIES</u></b>                      |                                                                                                                                                                                                                                                             |    |   |
| <u>"Union" or other approved</u>            |                                                                                                                                                                                                                                                             |    |   |
| 5                                           | "CZ8731CH" Door stop fixed with counter-sunk bolt into anchor bolt                                                                                                                                                                                          | No | 1 |
| 6                                           | 38mm Diameter rubber door stop, plugged and screwed to floor with 50mm long brass screw                                                                                                                                                                     | No | 3 |
| <b><u>LETTERS, NAMEPLATES, ETC.</u></b>     |                                                                                                                                                                                                                                                             |    |   |
| <u>Signage</u>                              |                                                                                                                                                                                                                                                             |    |   |
| 7                                           | 200 x 250mm Pressed aluminium with male, female symbol fixed to brickwork with 6 no. "Hilti" nail anchors                                                                                                                                                   | No | 2 |
| <b><u>BATHROOM FITTINGS</u></b>             |                                                                                                                                                                                                                                                             |    |   |
| <u>Toilet roll holders</u>                  |                                                                                                                                                                                                                                                             |    |   |
| 8                                           | 40 x 3mm Thick steel plate with 2 x 8mm holes and rawl bolts and 2 x 30mm holes to support roller bent to suit 27 diameter x 2mm thick steel pipe with hole for padlock and a 40 x 3mm thick steel plate welded on other end.(See architect drawing No.TRH) | No | 3 |
| Carried Forward to Summary of Section No. 4 |                                                                                                                                                                                                                                                             |    | R |
| Section No. 4                               |                                                                                                                                                                                                                                                             |    |   |
| Bill No. 7                                  |                                                                                                                                                                                                                                                             |    |   |
| IRONMONGERY                                 |                                                                                                                                                                                                                                                             |    |   |
| KHANYISA SECONDARY SCHOOL                   |                                                                                                                                                                                                                                                             |    |   |
| WIMS: 065544                                |                                                                                                                                                                                                                                                             |    |   |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Rate | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 8</u></b></p> <p><b><u>METALWORK(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><b><u>Descriptions of bolts, anchors, etc</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      | R      |
| <p>Section No. 4<br/>Bill No. 8<br/>METALWORK<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |        |

Brought Forward

R

**WELDED GALVANISED STEEL SCREENS,  
GATES, ETC.**

Screens and gates

- 1 Single gate size 877 x 2250mm high of 40 x 60 x 3mm rectangular tubing with 12mm diameter steel rods at 110mm centre and 40 x 6mm horizontal support flat bars fixed with hinges to steel frame of 45 x 45 x 3mm rectangular tubing fixed to walls with bolts and lugs including padlock plate

No

1

**HOT DIPPED GALVANISED MILD STEEL DOOR  
FRAMES**

1.2mm Rebated frames suitable for half brick walls

- 2 Frame for door 762 x 1932mm high

No

3

1.2mm Double rebated frames suitable for one brick walls

- 3 Frame for door 812 x 2032mm high

No

1

**GALVANISED STEEL WINDOWS, DOORS, ETC**

SS industrial type windows

- 4 Window type W1, 1100 x 550mm high

No

5

Carried Forward to Summary of Section No. 4

R

Section No. 4

Bill No. 8

METALWORK

KHANYISA SECONDARY SCHOOL

WIMS: 065544

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity | Rate | Amount |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 9</u></b></p> <p><b><u>PLASTERING(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL. IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      | R      |
| <p>Section No. 4<br/>Bill No. 9<br/>PLASTERING<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |        |

**Brought Forward**

R

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

Panels

Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

**Carried Forward**

R

Section No. 4

Bill No. 9

PLASTERING

**KHANYISA SECONDARY SCHOOL**

**WIMS: 065544**

| Brought Forward                                                                                                                                                                                                                                                                  |                                   |    | R  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----|----|
| <u>Laying</u>                                                                                                                                                                                                                                                                    |                                   |    |    |
| Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels                                                                                                                                       |                                   |    |    |
| Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels |                                   |    |    |
| After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated                       |                                   |    |    |
| <u>Curing, seasoning and protection</u>                                                                                                                                                                                                                                          |                                   |    |    |
| Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying                                                                                                                                             |                                   |    |    |
| <b><u>SCREEDS</u></b>                                                                                                                                                                                                                                                            |                                   |    |    |
| <u>Screeds steel trowelled, on concrete</u>                                                                                                                                                                                                                                      |                                   |    |    |
| 1                                                                                                                                                                                                                                                                                | 50mm Thick on floors and landings | m2 | 40 |
| <b><u>INTERNAL PLASTER</u></b>                                                                                                                                                                                                                                                   |                                   |    |    |
| <u>Cement plaster steel trowelled, on brickwork</u>                                                                                                                                                                                                                              |                                   |    |    |
| 2                                                                                                                                                                                                                                                                                | On walls                          | m2 | 70 |
| 3                                                                                                                                                                                                                                                                                | On narrow widths                  | m2 | 5  |
| Carried Forward to Summary of Section No. 4                                                                                                                                                                                                                                      |                                   |    | R  |
| Section No. 4                                                                                                                                                                                                                                                                    |                                   |    |    |
| Bill No. 9                                                                                                                                                                                                                                                                       |                                   |    |    |
| PLASTERING                                                                                                                                                                                                                                                                       |                                   |    |    |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                                                                                                        |                                   |    |    |
| WIMS: 065544                                                                                                                                                                                                                                                                     |                                   |    |    |

| Item<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 10</u></b></p> <p><b><u>TILING (PROVISIONAL)(CPAP WORK GROUP NO. 144 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL. IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Patterns</u></p> <p>Unless otherwise described, tiles shall be laid with continuous joints in both directions</p> <p><u>Fixing</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      | R      |
| <p>Section No. 4<br/>Bill No. 10<br/>TILING<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |        |

| Brought Forward                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |    | R   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|-----|
| <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles</p> <p><b><u>WALL TILING</u></b></p> <p><b><u>300 x 300 x 8.5mm 'salt and pepper' ceramic tiles on brickwork including cement plaster backing</u></b></p> |                        |    |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                           | On walls toilets only  | m2 | 86  |
| <p><b><u>FLOOR TILING</u></b></p> <p><b><u>300 x 300 x 8.5mm 'salt and pepper' ceramic floor tiles on 10mm bedding on concrete and flush pointed with tinted waterproof jointing compound</u></b></p>                                                                                                                                                                                                                                                       |                        |    |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                           | On floors and landings | m2 | 350 |
| <b><u>Edge trimming</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |    |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Metal edge trimming    | m  | 40  |
| Carried Forward to Summary of Section No. 4                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |    | R   |
| <p>Section No. 4</p> <p>Bill No. 10</p> <p>TILING</p> <p>KHANYISA SECONDARY SCHOOL</p> <p>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                  |                        |    |     |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Amount |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 11</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b><br/> <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | R    |        |
|         | <p>Section No. 4</p> <p>Bill No. 11</p> <p>PLUMBING AND DRAINAGE (PROVISIONAL)</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |        |

|                                                                                                                                                                                                                      |                                                                   |    |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|
| Brought Forward                                                                                                                                                                                                      |                                                                   |    | R  |
| <u>Polypropylene pipes</u>                                                                                                                                                                                           |                                                                   |    |    |
| Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings                                     |                                                                   |    |    |
| Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions |                                                                   |    |    |
| <b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b>                                                                                             |                                                                   |    |    |
| <b><u>RAINWATER DISPOSAL</u></b>                                                                                                                                                                                     |                                                                   |    |    |
| <b><u>0.7mm Baked Enamel on aluminium gutter system in continuous lengths including hail brackets</u></b>                                                                                                            |                                                                   |    |    |
| 1                                                                                                                                                                                                                    | 150 x 150mm Ogee eaves gutters                                    | m  | 24 |
| 2                                                                                                                                                                                                                    | Extra over gutters for outlet for stop ends                       | No | 4  |
| <b><u>0.6mm Thick aluminium down pipes with white finish:</u></b>                                                                                                                                                    |                                                                   |    |    |
| 3                                                                                                                                                                                                                    | 100mm Diameter rainwater downpipes secured to walls with brackets | m  | 14 |
| 4                                                                                                                                                                                                                    | Extra over 100mm rainwater pipe for shoe                          | No | 2  |
| 5                                                                                                                                                                                                                    | Extra over 100mm rainwater pipe for bend                          | No | 8  |
| 6                                                                                                                                                                                                                    | Extra over 150mm gutter for swan neck                             | No | 2  |
| 7                                                                                                                                                                                                                    | Extra over gutters for outlet for stop ends                       | No | 4  |
| Carried Forward                                                                                                                                                                                                      |                                                                   |    | R  |
| Section No. 4<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                                     |                                                                   |    |    |

Brought Forward

R

**PRECAST CONCRETE CHANNELS**

- 8 180 x 480mm Channel 1200mm long with segmental channel with one open end and one stopped end formed therein and finished smooth, including placing in position under shoe of rainwater pipe on a well rammed earth bottom

No 8

**STORMWATER DRAINAGE**

- 9 Excavation in earth not exceeding 1m deep for pipe trenches

m3 20

- 10 Backfilling to pipe trenches compacted to 93% Mod AASHTO density

m3 20

Class 100D concrete pipes with interlocking joints

- 11 110mm Pipes laid in trenches (trenches elsewhere)

m 50

**SOIL DRAINAGE**

- 12 Excavation in earth not exceeding 1m deep for pipe trenches

m3 20

- 13 Backfilling to pipe trenches compacted to 93% Mod AASHTO density

m3 15

Carried Forward

R

Section No. 4  
Bill No. 11  
PLUMBING AND DRAINAGE (PROVISIONAL)  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                                                                                  |                                                                                                                                                                                                                              |    | R  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>SANITARY FITTINGS</u></b>                                                                                  |                                                                                                                                                                                                                              |    |    |
| <u>"Atlas Plastics (Pty) Ltd" or other approved</u>                                                              |                                                                                                                                                                                                                              |    |    |
| 14                                                                                                               | Atlas Plastics "Aquarius Close Coupled Toilet" (code 570AP) colour Granite with seat, overall size 416 x 690 x 768mm high, with foot of pan grouted to the floor with 1:3 cement mortar                                      | No | 6  |
| 15                                                                                                               | Atlas Plastics "Christy" (Code 945AP) wash hand basin with splashback, colour Granite, overall size 580 x 410mm wide with 2 tap holes and 40mm waste outlet, plugged and screwed to wall with galvanised screws and brackets | No | 4  |
| 16                                                                                                               | Atlas Plastics "30 Litre Wash Trough" (Code 366AP) colour Granite (Code: 101133), overall size 528 x 412mm wide with 40mm waste outlet, plugged and screwed to the wall with galvanised screws and fixing brackets           | No | 2  |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                  |                                                                                                                                                                                                                              |    |    |
| <u>"Cobra Watertech" or other approved</u>                                                                       |                                                                                                                                                                                                                              |    |    |
| 17                                                                                                               | 15mm Chromium plated 'Star 136-15' stopcock                                                                                                                                                                                  | No | 20 |
| 18                                                                                                               | 15mm Chromium plated 'Star 106-15' basin bibtap                                                                                                                                                                              | No | 4  |
| 19                                                                                                               | 15mm Chromium plated elbow action pillartap (code 503-21B)                                                                                                                                                                   | No | 1  |
| 20                                                                                                               | 15mm Standard brass 'Plain 100-15' bibtap with flow straightener                                                                                                                                                             | No | 2  |
| Carried Forward                                                                                                  |                                                                                                                                                                                                                              |    | R  |
| Section No. 4<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                              |    |    |

|                                                                                                                                |                   |    |    |   |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------|----|----|---|
| Brought Forward                                                                                                                |                   |    |    | R |
| <b><u>SANITARY PLUMBING</u></b>                                                                                                |                   |    |    |   |
| <u>PVC-U soil and vent pipes</u>                                                                                               |                   |    |    |   |
| 21                                                                                                                             | 50mm Pipes        | m  | 15 |   |
| 22                                                                                                                             | 110mm Pipes       | m  | 50 |   |
| <u>Extra over PVC-U soil and vent pipes for fittings</u>                                                                       |                   |    |    |   |
| 23                                                                                                                             | 50mm Bend         | No | 14 |   |
| 24                                                                                                                             | 50mm Access bend  | No | 14 |   |
| 25                                                                                                                             | 50mm Junction     | No | 4  |   |
| 26                                                                                                                             | 110mm Access bend | No | 6  |   |
| 27                                                                                                                             | 110mm Junction    | No | 4  |   |
| 28                                                                                                                             | 110mm End cap     | No | 6  |   |
| Carried Forward                                                                                                                |                   |    |    | R |
| Section No. 4<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b> |                   |    |    |   |

| Brought Forward                                                                                                  |                                                                                                      |    | R  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----|----|
| <b><u>TRAPS ETC</u></b>                                                                                          |                                                                                                      |    |    |
| <u>"Cobra Watertech" or other approved rubber traps</u>                                                          |                                                                                                      |    |    |
| 29                                                                                                               | 32 x 40mm Butyl rubber P-trap jointed to waste outlet fitting and to 50mm uPVC pipe including clamps | No | 8  |
| <b><u>WATER SUPPLIES</u></b>                                                                                     |                                                                                                      |    |    |
| 30                                                                                                               | Excavation in earth not exceeding 1m deep for pipe trenches                                          | m3 | 15 |
| 31                                                                                                               | Backfilling to pipe trenches                                                                         | m3 | 15 |
| 32                                                                                                               | Backfilling to pipe trenches                                                                         | m3 | 15 |
| <u>Class 10 HDPe type IV pipes</u>                                                                               |                                                                                                      |    |    |
| 33                                                                                                               | 15mm Pipes                                                                                           | m  | 24 |
| 34                                                                                                               | 15mm Pipes chased to brickwork                                                                       | m  | 4  |
| 35                                                                                                               | 22mm Pipes                                                                                           | m  | 36 |
| 36                                                                                                               | 22mm Pipes chased into brick walls                                                                   | m  | 6  |
| 37                                                                                                               | 22mm Pipes laid in and including trenches not exceeding 1m deep                                      | m  | 50 |
| 38                                                                                                               | 28mm pipes                                                                                           | m  | 60 |
| Carried Forward                                                                                                  |                                                                                                      |    | R  |
| Section No. 4<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                      |    |    |

| Brought Forward                                            |                                                                                                         |        | R |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|---|
| <u>Extra over Class 10 HDPe type IV pipes for fittings</u> |                                                                                                         |        |   |
| 39                                                         | 15mm Fittings                                                                                           | No 47  |   |
| 40                                                         | 28mm Fittings                                                                                           | No 100 |   |
| 41                                                         | 22mm Fittings                                                                                           | No 70  |   |
| 42                                                         | 22mm Reducer                                                                                            | No 10  |   |
| 43                                                         | 22mm Bend                                                                                               | No 14  |   |
| <u>Class 10 HDPe type IV overflow and service pipes</u>    |                                                                                                         |        |   |
| 44                                                         | 15mm Bent service pipe average 400mm girth, one end fitted with brass adaptor and jointed to tap, etc., | No 8   |   |
| 45                                                         | 22mm Bent overflow pipe 500mm girth and joint to fitting                                                | No 12  |   |
| <u>TESTING</u>                                             |                                                                                                         |        |   |
| 46                                                         | Allow for testing the whole of the sanitary plumbing and water supply                                   | Item   |   |
| <b>Carried Forward to Summary of Section No. 4</b>         |                                                                                                         |        | R |
| Section No. 4                                              |                                                                                                         |        |   |
| Bill No. 11                                                |                                                                                                         |        |   |
| PLUMBING AND DRAINAGE (PROVISIONAL)                        |                                                                                                         |        |   |
| KHANYISA SECONDARY SCHOOL                                  |                                                                                                         |        |   |
| WIMS: 065544                                               |                                                                                                         |        |   |

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| Item<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 13</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      | R      |
| <p>Section No. 4<br/>Bill No. 13<br/>PAINTWORK<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |        |

Brought Forward

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**SUPPLEMENTARY PREAMBLES**

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Architect

SABS Specifications:

Matt or eggshell decorative paint for interior works :  
SANS 515

High gloss enamel paint : SABS 630 Grade I

Oil gloss enamel paint : SABS 631

Primers for wood for external work : SABS 678 Type I

Primers for wood for internal work : SABS 678 Type III

Undercoats for paints (except emulsion paint) : SABS  
681 Type I

Zink chromate primers for steel : SABS 679 Type I

Aluminium paint : SABS 682 Grade II

Structural steel paint : SABS 684 Type B

Roof paints : SABS 683 Type B

Wash primer (metal etch) : SABS 723

Varnish for interior use : SABS 887 Type I

Emulsion paints : SABS 1586

Colours:

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

Carried Forward

R

Section No. 4  
Bill No. 13  
PAINTWORK  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

**Brought Forward**

Protective Treatment to Structural Steel

Structural Steel work shall be cleaned and prepared by wire brushing in accordance with SABS 064 and all surfaces shall be treated with one coat of red lead primer complying with the SABS 132 type II grade 1 to a minimum thickness of 30 micron.

R

**Carried Forward**

Section No. 4  
Bill No. 13  
PAINTWORK  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

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| Brought Forward                                                                                                                                                                                                       |                                                                   |    | R   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|-----|
| <b><u>PAINTWORK ETC TO NEW WORK</u></b>                                                                                                                                                                               |                                                                   |    |     |
| <b><u>"PLASCON" OR OTHER EQUAL AND APPROVED</u></b>                                                                                                                                                                   |                                                                   |    |     |
| <b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>                                                                                                                                                                    |                                                                   |    |     |
| <u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall &amp; All' or other approved emulsion paint for interior use.</u> |                                                                   |    |     |
| 1                                                                                                                                                                                                                     | Walls                                                             | m2 | 200 |
| <b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>                                                                                                                                                                          |                                                                   |    |     |
| <u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use.</u>                                  |                                                                   |    |     |
| 2                                                                                                                                                                                                                     | Fascias and barge boards, including priming metal jointing strips | m2 | 30  |
| <b><u>ON WOOD SURFACES</u></b>                                                                                                                                                                                        |                                                                   |    |     |
| <u>Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on timber doors</u>             |                                                                   |    |     |
| 3                                                                                                                                                                                                                     | On doors                                                          | m2 | 40  |
| 4                                                                                                                                                                                                                     | Door frames and linings                                           | m2 | 20  |
| <u>Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint</u>                                                                    |                                                                   |    |     |
| 5                                                                                                                                                                                                                     | Roof timbers at eaves and verges                                  | m2 | 20  |
| Carried Forward to Summary of Section No. 4                                                                                                                                                                           |                                                                   |    | R   |
| Section No. 4                                                                                                                                                                                                         |                                                                   |    |     |
| Bill No. 13                                                                                                                                                                                                           |                                                                   |    |     |
| PAINTWORK                                                                                                                                                                                                             |                                                                   |    |     |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                                             |                                                                   |    |     |
| WIMS: 065544                                                                                                                                                                                                          |                                                                   |    |     |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 4</u></b></p> <p><b><u>BILL No. 14</u></b></p> <p><b><u>EXTERNAL WORKS</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>View Site</u></b></p> <p>Before submitting the tender, the contractor shall visit the site and satisfy himself/herself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | R    |        |
|         | <p>Section No. 4</p> <p>Bill No. 14</p> <p>EXTERNAL WORKS (PROVISIONAL)</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |        |

Brought Forward

R

**EARTHWORKS (PROVISIONAL)(CPAP WORK  
GROUP NO. 104 UNLESS OTHERWISE  
STATED)**

**CONCRETE V-DRAIN CHANNELS (ALL TRADES)  
(PROVISIONAL)**

**Testing of material and filling**

Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SANS 1200 series

**Excavations in earth not exceeding 2m deep**

|   |                  |    |    |
|---|------------------|----|----|
| 1 | To reduce levels | m3 | 19 |
|---|------------------|----|----|

**Extra over excavation in earth for excavation in**

|   |           |    |   |
|---|-----------|----|---|
| 2 | Hard rock | m3 | 5 |
|---|-----------|----|---|

|   |                   |    |    |
|---|-------------------|----|----|
| 3 | Intermediate rock | m3 | 10 |
|---|-------------------|----|----|

|   |           |    |    |
|---|-----------|----|----|
| 4 | Soft rock | m3 | 10 |
|---|-----------|----|----|

**Carting away**

|   |                                                                                                                                 |    |    |
|---|---------------------------------------------------------------------------------------------------------------------------------|----|----|
| 5 | Extra over excavations for carting away surplus material from the excavations to a dumping site to be located by the contractor | m3 | 30 |
|---|---------------------------------------------------------------------------------------------------------------------------------|----|----|

Carried Forward

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Section No. 4  
Bill No. 14  
EXTERNAL WORKS (PROVISIONAL)  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                                                                           |                                                                                                                                                                                                                                       |      | R  |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| <u>Keeping excavations free of water</u>                                                                  |                                                                                                                                                                                                                                       |      |    |
| 6                                                                                                         | Keeping excavations free of water other than subterranean water                                                                                                                                                                       | Item |    |
| <u>EARTH FILLING, ETC</u>                                                                                 |                                                                                                                                                                                                                                       |      |    |
| <u>Earth filling supplied by the contractor</u>                                                           |                                                                                                                                                                                                                                       |      |    |
| 7                                                                                                         | Imported selected fill (G5) in layer 150mm thick and compacted to 93% Mod AASHTO density                                                                                                                                              | m3   | 15 |
| <u>Compaction of surfaces</u>                                                                             |                                                                                                                                                                                                                                       |      |    |
| <u>Compaction of surfaces</u>                                                                             |                                                                                                                                                                                                                                       |      |    |
| 8                                                                                                         | Compaction of ground surfaces under pavings etc, including ripping up surface and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2   | 70 |
| <u>TESTS</u>                                                                                              |                                                                                                                                                                                                                                       |      |    |
| <u>Prescribed density tests on filling</u>                                                                |                                                                                                                                                                                                                                       |      |    |
| 9                                                                                                         | Modified AASHTO Density test                                                                                                                                                                                                          | No   | 6  |
| Carried Forward                                                                                           |                                                                                                                                                                                                                                       |      | R  |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                                       |      |    |

| Brought Forward                                                                                           |                                                                                                                                   |    | R  |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>SOIL POISONING</u></b>                                                                              |                                                                                                                                   |    |    |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                      |                                                                                                                                   |    |    |
| 10                                                                                                        | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming | m2 | 70 |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b>      |                                                                                                                                   |    |    |
| <u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>                                                            |                                                                                                                                   |    |    |
| <u>20Mpa/19mm Concrete</u>                                                                                |                                                                                                                                   |    |    |
| 11                                                                                                        | Surface blinding under surface beds, slabs, etc.                                                                                  | m3 | 8  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                   |    |    |
| <u>Finishing top surfaces of concrete smooth with a wood float</u>                                        |                                                                                                                                   |    |    |
| 12                                                                                                        | Concrete channel to falls                                                                                                         | m2 | 80 |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u></b>                            |                                                                                                                                   |    |    |
| <u>Rough formwork to sides</u>                                                                            |                                                                                                                                   |    |    |
| 13                                                                                                        | Apron slabs, paving and ramps not exceeding 300mm high                                                                            | m  | 70 |
| <u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces</u>                  |                                                                                                                                   |    |    |
| 14                                                                                                        | 10mm Joints not exceeding 300mm high                                                                                              | m  | 70 |
| Carried Forward                                                                                           |                                                                                                                                   |    | R  |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                   |    |    |

|                                                                                                                                         |                                                                    |    |    |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----|----|
| Brought Forward                                                                                                                         |                                                                    |    | R  |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                                                     |                                                                    |    |    |
| <u>Fabric reinforcement</u>                                                                                                             |                                                                    |    |    |
| 15                                                                                                                                      | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 70 |
| <b><u>WATERPROOFING (CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                           |                                                                    |    |    |
| <b><u>JOINT SEALANTS, ETC</u></b>                                                                                                       |                                                                    |    |    |
| <u>"ABE Flexothane" or other approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> |                                                                    |    |    |
| 16                                                                                                                                      | In 10mm joints not exceeding 300mm high                            | m  | 70 |
| <b><u>WATER TANK SUPPORTS (ALL TRADES) (PROVISIONAL)</u></b>                                                                            |                                                                    |    |    |
| <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></b>                                                 |                                                                    |    |    |
| <b><u>EXCAVATION OTHER THAN BULK</u></b>                                                                                                |                                                                    |    |    |
| <u>Excavation in earth not exceeding 2m deep</u>                                                                                        |                                                                    |    |    |
| 17                                                                                                                                      | Bases                                                              | m3 | 15 |
| Carried Forward                                                                                                                         |                                                                    |    | R  |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                               |                                                                    |    |    |

|                                                                                                           |                                                                                                                                                                                               |    |      |  |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|--|
| Brought Forward                                                                                           |                                                                                                                                                                                               |    | R    |  |
|                                                                                                           | <u>Extra over trench and hole excavation in earth for excavation in</u>                                                                                                                       |    |      |  |
| 18                                                                                                        | Hard rock                                                                                                                                                                                     | m3 | 6    |  |
| <b><u>CARTING AWAY</u></b>                                                                                |                                                                                                                                                                                               |    |      |  |
|                                                                                                           | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk)</u>                                                        |    |      |  |
| 19                                                                                                        | Off site to be located by the contractor                                                                                                                                                      | m3 | 21   |  |
| <b><u>EARTH FILLING, ETC</u></b>                                                                          |                                                                                                                                                                                               |    |      |  |
|                                                                                                           | <u>Note: All filling whether obtained from the excavations, from stockpiles or by the contractor from an outside source must be selected and approved by the Structural / Civil Engineers</u> |    |      |  |
|                                                                                                           | <u>Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density</u>                                                                                  |    |      |  |
| 20                                                                                                        | Backfilling to trenches, holes, etc.                                                                                                                                                          | m3 | 8    |  |
| <b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>                                                           |                                                                                                                                                                                               |    |      |  |
|                                                                                                           | <u>Keeping excavations free of water</u>                                                                                                                                                      |    |      |  |
| 21                                                                                                        | Allow for keeping excavations free of water or mud by hand or machinery                                                                                                                       |    | Item |  |
| Carried Forward                                                                                           |                                                                                                                                                                                               |    | R    |  |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                               |    |      |  |

| Brought Forward                                                                                                   |                                                                                                                                                                                                                |    | R  |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>COMPACTION</u></b>                                                                                          |                                                                                                                                                                                                                |    |    |
| <u>Compaction of surfaces</u>                                                                                     |                                                                                                                                                                                                                |    |    |
| 22                                                                                                                | Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod. AASHTO density. | m2 | 14 |
| <b><u>TESTS</u></b>                                                                                               |                                                                                                                                                                                                                |    |    |
| <u>Prescribed density tests on filling</u>                                                                        |                                                                                                                                                                                                                |    |    |
| 23                                                                                                                | Modified AASHTO Density test                                                                                                                                                                                   | No | 2  |
| <b><u>SOIL POISONING</u></b>                                                                                      |                                                                                                                                                                                                                |    |    |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                              |                                                                                                                                                                                                                |    |    |
| 24                                                                                                                | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                              | m2 | 26 |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b> |                                                                                                                                                                                                                |    |    |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>                                               |                                                                                                                                                                                                                |    |    |
| <u>10MPa Concrete</u>                                                                                             |                                                                                                                                                                                                                |    |    |
| 25                                                                                                                | Surface blinding under footings, bases, etc.                                                                                                                                                                   | m3 | 2  |
| Carried Forward                                                                                                   |                                                                                                                                                                                                                |    | R  |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544         |                                                                                                                                                                                                                |    |    |

|                                                                                                           |                                                                                                                                                                                       |      |     |  |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--|
| Brought Forward                                                                                           |                                                                                                                                                                                       |      | R   |  |
| <b><u>REINFORCED CONCRETE</u></b>                                                                         |                                                                                                                                                                                       |      |     |  |
| <u>25MPa/19mm Concrete</u>                                                                                |                                                                                                                                                                                       |      |     |  |
| 26                                                                                                        | Surface beds                                                                                                                                                                          | m3   | 3   |  |
| 27                                                                                                        | Bases                                                                                                                                                                                 | m3   | 6   |  |
| <b><u>TEST BLOCKS</u></b>                                                                                 |                                                                                                                                                                                       |      |     |  |
| <u>Test blocks</u>                                                                                        |                                                                                                                                                                                       |      |     |  |
| 28                                                                                                        | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 2.0 |  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                                                                       |      |     |  |
| <u>Finishing top surfaces of concrete with a wood float</u>                                               |                                                                                                                                                                                       |      |     |  |
| 29                                                                                                        | Surface beds, slabs, etc.                                                                                                                                                             | m2   | 14  |  |
| Carried Forward                                                                                           |                                                                                                                                                                                       |      | R   |  |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                       |      |     |  |

|                                                                                                           |                                                                  |    |      |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----|------|
| Brought Forward                                                                                           |                                                                  |    | R    |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP NO. 111)</u></b>                           |                                                                  |    |      |
| <u>Rough formwork to sides</u>                                                                            |                                                                  |    |      |
| 30                                                                                                        | Edges, risers, ends and reveals not exceeding 300mm high or wide | m  | 20   |
| <u>Boxing in smooth formwork to form</u>                                                                  |                                                                  |    |      |
| 31                                                                                                        | 50mm Horizontal chamfer at corner                                | m  | 20   |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                       |                                                                  |    |      |
| <u>Mild steel reinforcement to structural concrete work</u>                                               |                                                                  |    |      |
| 32                                                                                                        | 10mm Diameter bars                                               | t  | 0.80 |
| <b><u>MASONRY (CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u></b>                                   |                                                                  |    |      |
| <b><u>BRICKWORK IN FOUNDATIONS</u></b>                                                                    |                                                                  |    |      |
| <u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u>       |                                                                  |    |      |
| 33                                                                                                        | One brick wall                                                   | m2 | 25   |
| Carried Forward                                                                                           |                                                                  |    | R    |
| Section No. 4<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                  |    |      |

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|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| Brought Forward                                                                                                                          |                                                                                                                                                                                          |    | R  |
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                                                         |                                                                                                                                                                                          |    |    |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                                                            |                                                                                                                                                                                          |    |    |
| 34                                                                                                                                       | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 10 |
| <u>Brickwork reinforcement</u>                                                                                                           |                                                                                                                                                                                          |    |    |
| 35                                                                                                                                       | 150mm Wide reinforcement built in horizontally                                                                                                                                           | m  | 92 |
| <b><u>FACE BRICKWORK</u></b>                                                                                                             |                                                                                                                                                                                          |    |    |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u> |                                                                                                                                                                                          |    |    |
| 36                                                                                                                                       | Extra over brickwork for face brickwork                                                                                                                                                  | m2 | 8  |
| <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                      |                                                                                                                                                                                          |    |    |
| <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148</u></b>                                                                                      |                                                                                                                                                                                          |    |    |
| <b><u>UNLESS OTHERWISE STATED)</u></b>                                                                                                   |                                                                                                                                                                                          |    |    |
| <b><u>WATER SUPPLIES AND FIRE SERVICES</u></b>                                                                                           |                                                                                                                                                                                          |    |    |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                                          |                                                                                                                                                                                          |    |    |
| <u>"Cobra Watertech" or other approved</u>                                                                                               |                                                                                                                                                                                          |    |    |
| 37                                                                                                                                       | 15mm Rough brass hose bib tap as 'Cobra Watertech' Ref. No. 108-15 or other equal and approved including hose union, wall plate elbow, etc.                                              | No | 2  |
| Carried Forward                                                                                                                          |                                                                                                                                                                                          |    | R  |
| Section No. 4                                                                                                                            |                                                                                                                                                                                          |    |    |
| Bill No. 14                                                                                                                              |                                                                                                                                                                                          |    |    |
| EXTERNAL WORKS (PROVISIONAL)                                                                                                             |                                                                                                                                                                                          |    |    |
| KHANYISA SECONDARY SCHOOL                                                                                                                |                                                                                                                                                                                          |    |    |
| WIMS: 065544                                                                                                                             |                                                                                                                                                                                          |    |    |

Brought Forward

**TANKS, ETC**

Polyethylene drinking water tanks

- 38 5000 Litre low profile circular tank size 2250mm diameter x 1800mm high, with access lid and inlet hole, embedded in pedestal to a minimum of 400mm above ground level and tied down with 2 No. off 4mm galvanised double strap stay wires tied to galvanised mild steel M12 eye bolt of which is to be drilled and fixed to the 4 corners of concrete supporting base

No

1

**INFILTRATOR CHAMBER SYSTEM**

"KAYTECH" or equal and approved infiltrator chamber system

- 39 1220 x 1000 x 410mm High, high capacity chamber

No

1

Carried Forward to Summary of Section No. 4

Section No. 4  
Bill No. 14  
EXTERNAL WORKS (PROVISIONAL)  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

R

R

**SECTION SUMMARY - TYPE D - PIT - LEARNERS GIRLS - 4NO. WC SEATS -**

| Bill No                                                    |                                                    | Page No | Amount |
|------------------------------------------------------------|----------------------------------------------------|---------|--------|
| 1                                                          | EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104   | 92      |        |
| 2                                                          | CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL) | 97      |        |
| 3                                                          | MASONRY (PROVISIONAL)                              | 101     |        |
| 4                                                          | WATERPROOFING                                      | 102     |        |
| 5                                                          | ROOF COVERINGS ETC                                 | 105     |        |
| 6                                                          | CARPENTRY AND JOINERY                              | 109     |        |
| 7                                                          | IRONMONGERY                                        | 112     |        |
| 8                                                          | METALWORK                                          | 114     |        |
| 9                                                          | PLASTERING                                         | 117     |        |
| 10                                                         | TILING                                             | 119     |        |
| 11                                                         | PLUMBING AND DRAINAGE (PROVISIONAL)                | 126     |        |
| 12                                                         | GLAZING                                            | 127     |        |
| 13                                                         | PAINTWORK                                          | 131     |        |
| 14                                                         | EXTERNAL WORKS (PROVISIONAL)                       | 142     |        |
| Carried to Final Summary                                   |                                                    |         | R      |
| Section No. 4<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                    |         |        |

Carried Forward

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| Brought Forward                                                                                      |                                                                                                                 |      | R  |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------|----|
| <b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b>                                              |                                                                                                                 |      |    |
| <u>Excavation in earth not exceeding 2m deep</u>                                                     |                                                                                                                 |      |    |
| 3                                                                                                    | Reduced levels under floors                                                                                     | m3   | 11 |
| 4                                                                                                    | Trenches                                                                                                        | m3   | 2  |
| 5                                                                                                    | Pit                                                                                                             | m3   | 25 |
| <u>Excavation in earth exceeding 2m deep</u>                                                         |                                                                                                                 |      |    |
| 6                                                                                                    | Pit                                                                                                             | m3   | 15 |
| <u>Extra over trench and hole excavations in earth for excavation in</u>                             |                                                                                                                 |      |    |
| 7                                                                                                    | Intermediate material                                                                                           | m3   | 4  |
| 8                                                                                                    | Hard rock                                                                                                       | m3   | 4  |
| <u>Working space for pits</u>                                                                        |                                                                                                                 |      |    |
| 9                                                                                                    | Working space for pits                                                                                          | m2   | 9  |
| <u>Extra over all excavations for carting away</u>                                                   |                                                                                                                 |      |    |
| 10                                                                                                   | Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor | m3   | 48 |
| <u>Risk of collapse of excavations</u>                                                               |                                                                                                                 |      |    |
| 11                                                                                                   | Sides of trench and hole excavations not exceeding 1,5m deep                                                    | m2   | 16 |
| <u>Keeping excavations free of water</u>                                                             |                                                                                                                 |      |    |
| 12                                                                                                   | Keeping excavations free of all water other than subterranean water                                             | Item |    |
| Carried Forward                                                                                      |                                                                                                                 |      | R  |
| Section No. 5<br>Bill No. 1<br>EARTHWORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                 |      |    |

| Brought Forward                                                    |                                                                                                                                                                                                                |    | R  |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>FILLING ETC</u></b>                                          |                                                                                                                                                                                                                |    |    |
| <u>Earth filling supplied by the contractor under pavings etc.</u> |                                                                                                                                                                                                                |    |    |
| 13                                                                 | 150mm G5 Material in accordance with SABS 1200 DM compacted to 98% Mod. AASHTO density                                                                                                                         | m3 | 4  |
| <u>Compaction of surfaces</u>                                      |                                                                                                                                                                                                                |    |    |
| 14                                                                 | Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod. AASHTO density | m2 | 30 |
| <u>Prescribed density tests on filling</u>                         |                                                                                                                                                                                                                |    |    |
| 15                                                                 | "Modified AASHTO Density" test                                                                                                                                                                                 | No | 3  |
| 16                                                                 | "Field Density" test including "Optimum Moisture Content" (four readings per test)                                                                                                                             | No | 3  |
| <b><u>SOIL POISONING</u></b>                                       |                                                                                                                                                                                                                |    |    |
| <u>Soil Insecticide in accordance with SANS 5859</u>               |                                                                                                                                                                                                                |    |    |
| 17                                                                 | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                              | m2 | 31 |
| Carried Forward to Summary of Section No. 5                        |                                                                                                                                                                                                                |    | R  |
| Section No. 5                                                      |                                                                                                                                                                                                                |    |    |
| Bill No. 1                                                         |                                                                                                                                                                                                                |    |    |
| EARTHWORKS (PROVISIONAL)                                           |                                                                                                                                                                                                                |    |    |
| KHANYISA SECONDARY SCHOOL                                          |                                                                                                                                                                                                                |    |    |
| WIMS: 065544                                                       |                                                                                                                                                                                                                |    |    |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity | Rate | Amount |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 5</u></b></p> <p><b><u>BILL No. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b></p> <p>Cost of tests</p> <p>The costs of making, storing and testing of concrete test cubes as required under Clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p>Formwork</p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | R    |        |
|         | <p>Section No. 5</p> <p>Bill No. 2</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT (PR</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|----|
| <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |    | R  |
| <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".</p> <p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p> <p><u>15MPa Concrete</u></p> |                                                     |    |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface blinding under footings and bases           | m3 | 1  |
| <p><b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b></p> <p><u>25MPa/19mm Concrete</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |    |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Foundation beams                                    | m3 | 2  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface beds on waterproofing, including thickening | m3 | 7  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Slabs including beams and inverted beams (LI)       | m3 | 9  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Concrete nib, etc                                   | m3 | 3  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pit base                                            | m3 | 10 |
| <p><b><u>PRECAST CONCRETE (CPAP WORK GROUP 112)</u></b></p> <p>Precast concrete cover slab 80mm thick formed of 25Mpa/19mm concrete with class 1 smooth finish on exposed surfaces splayed 25mm at edges with ref. 193 mesh reinforcement and 2no. 15mm diameter polycop pipe sleeves cast in to receive 2no. threaded 10mm diameter galvanised L-shaped lifting handles with 50 x 50 x 5mm holed plates, nuts and lock nuts, including holes to fit 110mm diameter vent pipe, etc. laid on brick walls</p>                                                                                                                                                         |                                                     |    |    |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cover slab size 860 x 930mm (LI)                    | No | 1  |
| <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |    | R  |
| <p>Section No. 5<br/>Bill No. 2<br/>CONCRETE, FORMWORK AND REINFORCEMENT (PR<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |    |    |

| Brought Forward                                                                                                      |                                                                                                                                             |       | R |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|---|
| 8                                                                                                                    | Cover slab size 870 x 930mm (LI)                                                                                                            | No 1  |   |
| 9                                                                                                                    | Cover slab size 820 x 930mm (LI)                                                                                                            | No 1  |   |
| 10                                                                                                                   | Cover slab size 825 x 930mm (LI)                                                                                                            | No 1  |   |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                                      |                                                                                                                                             |       |   |
| <u>Sleeves</u>                                                                                                       |                                                                                                                                             |       |   |
| 11                                                                                                                   | 110mm Diameter pipe and socket cast in concrete formed of 130mm long black pipe uPVC welded to 100mm long uPVC pipe with single socket (LI) | No 10 |   |
| <u>15MPa Non-shrink grout</u>                                                                                        |                                                                                                                                             |       |   |
| 12                                                                                                                   | Bedding approximately 25mm thick under 220 x 220mm base plate including chamfered edges all round                                           | No 6  |   |
| <u>Finishing top surfaces of concrete smooth with a wood float</u>                                                   |                                                                                                                                             |       |   |
| 13                                                                                                                   | Surface beds, slabs, etc.                                                                                                                   | m2 31 |   |
| <u>Test blocks</u>                                                                                                   |                                                                                                                                             |       |   |
| 14                                                                                                                   | Making and testing 150 x 150 x 150mm concrete strength test cubes                                                                           | No 6  |   |
| <b><u>FORMWORK (CPAP WORK GROUP NO. 111 UNLESS OTHERWISE STATED)</u></b>                                             |                                                                                                                                             |       |   |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                                                 |                                                                                                                                             |       |   |
| <u>Rough formwork to sides</u>                                                                                       |                                                                                                                                             |       |   |
| 15                                                                                                                   | Foundation beams (Provisional), etc (LI)                                                                                                    | m2 25 |   |
| 16                                                                                                                   | Edges, risers, ends and reveals not exceeding 300mm high or wide                                                                            | m 22  |   |
| <u>Formwork to soffit of slab</u>                                                                                    |                                                                                                                                             |       |   |
| 17                                                                                                                   | Slabs, propped up exceeding 1.5m and not exceeding 3.5m high (LI)                                                                           | m2 29 |   |
| Carried Forward                                                                                                      |                                                                                                                                             |       | R |
| Section No. 5<br>Bill No. 2<br>CONCRETE, FORMWORK AND REINFORCEMENT (PR<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                             |       |   |

| Brought Forward                             |                                                                                                     |    | R    |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------|----|------|
|                                             | <u>Rough formwork to sides and soffits</u>                                                          |    |      |
| 18                                          | Beams propped up exceeding 1.5m and not exceeding 3.5m high (LI)                                    | m2 | 25   |
|                                             | <b><u>MOVEMENT JOINTS, ETC.</u></b>                                                                 |    |      |
|                                             | <u>Slip joints between horizontal concrete and brick surfaces with two layers of 3 ply malthoid</u> |    |      |
| 19                                          | Not exceeding 300mm wide (LI)                                                                       | m  | 24   |
|                                             | <u>Expansion joints with bitumen impregnated fibreboard between vertical concrete surfaces</u>      |    |      |
| 20                                          | 13mm Joints not exceeding 300mm high                                                                | m  | 32   |
|                                             | <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                 |    |      |
|                                             | <u>High tensile steel reinforcement to structural concrete work</u>                                 |    |      |
| 21                                          | Bars of varying diameters                                                                           | t  | 1.36 |
|                                             | <u>Fabric reinforcement</u>                                                                         |    |      |
| 22                                          | Type 193 fabric reinforcement in concrete surface beds, etc                                         | m2 | 20   |
| Carried Forward to Summary of Section No. 5 |                                                                                                     |    | R    |
| Section No. 5                               |                                                                                                     |    |      |
| Bill No. 2                                  |                                                                                                     |    |      |
| CONCRETE, FORMWORK AND REINFORCEMENT (PR    |                                                                                                     |    |      |
| KHANYISA SECONDARY SCHOOL                   |                                                                                                     |    |      |
| WIMS: 065544                                |                                                                                                     |    |      |

| Item No                                                                                                                                                                                                                                   | Quantity | Rate | Amount |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION No. 5</u></b>                                                                                                                                                                                                               |          |      |        |
| <b><u>BILL No. 3</u></b>                                                                                                                                                                                                                  |          |      |        |
| <b><u>STANDARD PREAMBLES</u></b>                                                                                                                                                                                                          |          |      |        |
| <b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b>                                                                                                       |          |      |        |
| <u>Sizes in descriptions</u>                                                                                                                                                                                                              |          |      |        |
| Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick                                                                                                        |          |      |        |
| <u>Hollow walls etc.</u>                                                                                                                                                                                                                  |          |      |        |
| Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.                                                                                        |          |      |        |
| Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating. |          |      |        |
| <u>Bagged and sealed walls</u>                                                                                                                                                                                                            |          |      |        |
| Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating           |          |      |        |
| <b>Carried Forward</b>                                                                                                                                                                                                                    |          | R    |        |
| Section No. 5<br>Bill No. 3<br>MASONRY (PROVISIONAL)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b>                                                                                                                           |          |      |        |

## Brought Forward

### Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

### Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

## BRICKWORK

## FOUNDATIONS (PROVISIONAL)

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc

|   |                 |    |    |
|---|-----------------|----|----|
| 1 | One brick walls | m2 | 41 |
|---|-----------------|----|----|

## SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

|   |                  |    |    |
|---|------------------|----|----|
| 2 | Half brick walls | m2 | 21 |
|---|------------------|----|----|

|   |                                 |    |   |
|---|---------------------------------|----|---|
| 3 | Half brick walls in beamfilling | m2 | 2 |
|---|---------------------------------|----|---|

|   |                 |    |    |
|---|-----------------|----|----|
| 4 | One brick walls | m2 | 80 |
|---|-----------------|----|----|

**Carried Forward**

Section No. 5

Bill No. 3

MASONRY (PROVISIONAL)

**KHANYISA SECONDARY SCHOOL**

**WIMS: 065544**

| Brought Forward                                                                                   |                                                                                                                                                                                          |    | R   |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                  |                                                                                                                                                                                          |    |     |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                     |                                                                                                                                                                                          |    |     |
| 5                                                                                                 | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 80  |
| <u>Brickwork reinforcement</u>                                                                    |                                                                                                                                                                                          |    |     |
| 6                                                                                                 | 75mm Wide reinforcement built in horizontally                                                                                                                                            | m  | 117 |
| 7                                                                                                 | 150mm Wide reinforcement built in horizontally                                                                                                                                           | m  | 161 |
| <u>Prestressed fabricated concrete lintels including necessary temporary supports</u>             |                                                                                                                                                                                          |    |     |
| 8                                                                                                 | 110 x 75mm Lintels in lengths not exceeding 3m                                                                                                                                           | m  | 24  |
| <u>Turning pieces to lintels, etc.</u>                                                            |                                                                                                                                                                                          |    |     |
| 9                                                                                                 | 230mm Wide turning pieces                                                                                                                                                                | m  | 12  |
| <u>Galvanised hoop iron cramps, ties, etc</u>                                                     |                                                                                                                                                                                          |    |     |
| 10                                                                                                | 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber                                                                                            | No | 16  |
| <u>Air bricks etc</u>                                                                             |                                                                                                                                                                                          |    |     |
| 11                                                                                                | 229 x 152mm Terra-cotta vermin proof air brick                                                                                                                                           | No | 14  |
| Carried Forward                                                                                   |                                                                                                                                                                                          |    | R   |
| Section No. 5<br>Bill No. 3<br>MASONRY (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                          |    |     |

| Brought Forward                                                                                                                                                      |                                                                                       |    | R  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|----|
| <b><u>FACE BRICKWORK</u></b>                                                                                                                                         |                                                                                       |    |    |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u>                             |                                                                                       |    |    |
| 12                                                                                                                                                                   | Extra over brickwork for face brickwork                                               | m2 | 70 |
| 13                                                                                                                                                                   | Extra over brickwork for brick-on-edge header course lintel                           | m  | 2  |
| 14                                                                                                                                                                   | Extra over solid brick on end of brick on edge sill                                   | No | 10 |
| 15                                                                                                                                                                   | Fair cutting and fitting around pipe not exceeding 100mm diameter                     | No | 4  |
| 16                                                                                                                                                                   | Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter | No | 6  |
| <u>Brick-on-edge header course copings, sills, etc. of "Corobrik Travertine FBA" or other approved face bricks pointed with recessed joints on all exposed faces</u> |                                                                                       |    |    |
| 17                                                                                                                                                                   | 220mm Wide sill set sloping and slightly projecting                                   | m  | 3  |
| <b><u>"NUTEC" OR OTHER APPROVED FIBRE-CEMENT WINDOW SILLS</u></b>                                                                                                    |                                                                                       |    |    |
| <u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.</u>                                                                |                                                                                       |    |    |
| 18                                                                                                                                                                   | 150 x 15mm Thick sills set flat and slightly projecting                               | m  | 2  |
| Carried Forward to Summary of Section No. 5                                                                                                                          |                                                                                       |    | R  |
| Section No. 5                                                                                                                                                        |                                                                                       |    |    |
| Bill No. 3                                                                                                                                                           |                                                                                       |    |    |
| MASONRY (PROVISIONAL)                                                                                                                                                |                                                                                       |    |    |
| KHANYISA SECONDARY SCHOOL                                                                                                                                            |                                                                                       |    |    |
| WIMS: 065544                                                                                                                                                         |                                                                                       |    |    |

**Carried Forward**

Brought Forward

**JOINT SEALANTS, ETC.**

Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.

- 4 13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary

m

22

R

Carried Forward to Summary of Section No. 5

Section No. 5

Bill No. 4

WATERPROOFING

KHANYISA SECONDARY SCHOOL

WIMS: 065544

R

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quantity | Rate | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION No. 5</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |        |
| <b><u>BILL No. 5</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |        |
| <b><u>ROOF COVERINGS, ETC.(CPAP WORK GROUP NO. 125 UNLESS OTHERWISE STATED)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |        |
| <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2017</i></p> <p><i>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</i></p> <p><i>The manufacturer shall comply with ISO9002 Quality Management System.</i></p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      | R      |
| Section No. 5<br>Bill No. 5<br>ROOF COVERINGS, ETC.<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |        |

|                                                                                                                                                                                  |                                                                                                                   |    |    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----|----|--|
| <b>Brought Forward</b>                                                                                                                                                           |                                                                                                                   |    | R  |  |
| Fixing of all roof sheeting is to be in accordance with the manufacturer's approved instruction book.                                                                            |                                                                                                                   |    |    |  |
| Roof sheeting systems are to be manufactured in strict accordance with the supplier's specifications.                                                                            |                                                                                                                   |    |    |  |
| <b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>                                                                                                                            |                                                                                                                   |    |    |  |
| <u>0.53mm Colorbond IBR profile sheeting, colour one side fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u> |                                                                                                                   |    |    |  |
| 1                                                                                                                                                                                | Roof covering with pitches not exceeding 25 degrees                                                               | m2 | 45 |  |
| 2                                                                                                                                                                                | Standard galvanised ridge capping (550mm girth) screwed through sheeting to purlins                               | m  | 6  |  |
| 3                                                                                                                                                                                | Close cut and mitred hips including 0,6mm thick galvanised sheet iron soakers and necessary additional battens    | m  | 5  |  |
| 4                                                                                                                                                                                | Close cut and mitred valleys including 0,6mm thick galvanised sheet iron soakers and necessary additional battens | m  | 6  |  |
| 5                                                                                                                                                                                | Sondor IBR pattern polyclosures to underside of ridge capping                                                     | m  | 13 |  |
| 6                                                                                                                                                                                | Sondor IBR corrugated pattern metal closers under capping                                                         | m  | 14 |  |
| 7                                                                                                                                                                                | Ridge end cap                                                                                                     | No | 14 |  |
| 8                                                                                                                                                                                | Eaves fillers                                                                                                     | m  | 6  |  |
| 9                                                                                                                                                                                | Cover flashing 100mm girth                                                                                        | m  | 13 |  |
| <b>Carried Forward</b>                                                                                                                                                           |                                                                                                                   |    | R  |  |
| Section No. 5<br>Bill No. 5<br>ROOF COVERINGS, ETC.<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                 |                                                                                                                   |    |    |  |

| Brought Forward                             |                                                                                                               |    | R  |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|----|----|
|                                             | <u>Polycarbonate translucent IBR shape roof sheeting</u>                                                      |    |    |
| 10                                          | Roof covering with pitch not exceeding 25 degrees                                                             | m2 | 20 |
|                                             | <b><u>ROOF INSULATION</u></b>                                                                                 |    |    |
|                                             | <u>"Sisalation 430" or equally approved heavy industrial grade reinforced aluminium foil based insulation</u> |    |    |
| 11                                          | Insulation fixed to top of rafters                                                                            | m2 | 42 |
| Carried Forward to Summary of Section No. 5 |                                                                                                               |    | R  |
| Section No. 5                               |                                                                                                               |    |    |
| Bill No. 5                                  |                                                                                                               |    |    |
| ROOF COVERINGS, ETC.                        |                                                                                                               |    |    |
| KHANYISA SECONDARY SCHOOL                   |                                                                                                               |    |    |
| WIMS: 065544                                |                                                                                                               |    |    |

| Item No                                                                                                                                                                                                                      | Quantity | Rate | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION No. 5</u></b>                                                                                                                                                                                                  |          |      |        |
| <b><u>BILL No. 6</u></b>                                                                                                                                                                                                     |          |      |        |
| <b><u>CARPENTRY AND JOINERY(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)</u></b>                                                                                                                                         |          |      |        |
| <b><u>STANDARD PREAMBLES</u></b>                                                                                                                                                                                             |          |      |        |
| <b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b>                                                                                          |          |      |        |
| <b><u>Fixing</u></b>                                                                                                                                                                                                         |          |      |        |
| Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete                                                                                    |          |      |        |
| Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere                       |          |      |        |
| Purlins are to fixed to rafters with "Teco" hurricane clips. one clip at every intersection and two clips at ends of rafters with 2no 8mm diamter bolts or 8no 35mm long x 2,8mm diamter shouldered serrated nails per clip. |          |      |        |
| Fascia battens are to fixed to rafters with 2no "Trip-I-Grip" brackets with 35mm long x 2,8mm shouldered serrated nails.                                                                                                     |          |      |        |
| Barge battens are to fixed to rafters with 2no "Trip-I-Grip" brackets with 32mm long x 2,8mm shouldered serrated nails.                                                                                                      |          |      |        |
| <b>Carried Forward</b>                                                                                                                                                                                                       |          |      | R      |
| Section No. 5<br>Bill No. 6<br>CARPENTRY AND JOINERY<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                                                            |          |      |        |

**Brought Forward**

Timber treatment

All roof timbers must be C.C.A treated.

**PREFABRICATED TIMBER ROOF TRUSSES, ETC**

NOTE: Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members). The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is IBR profiled metal sheeting colour one side on 50 x 76mm purlins. Ceilings are nailed gypsum plasterboard on brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences.

**Design and supply plate nailed timber roof trusses**

- |   |                                                                                                                                                                                                                                                                                                                                                                                               |    |      |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| 1 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 26m2 (on flat floor area inclusive of overhangs) | No | 1    |
| 2 | Allowance for the issue of TR1 and TR2 certificates after completion of entire roof installation, signed by a competent person                                                                                                                                                                                                                                                                |    | Item |

R

**Carried Forward**

R

Section No. 5  
Bill No. 6  
CARPENTRY AND JOINERY  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                                                                   |                                                                                                                  |   | R  |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---|----|
| <u>Wrought softwood</u>                                                                           |                                                                                                                  |   |    |
| 3                                                                                                 | 38 x 114mm Wall plates                                                                                           | m | 12 |
| 4                                                                                                 | 76 x 50mm Purlins                                                                                                | m | 70 |
| 5                                                                                                 | 76 x 76mm Splayed gutter purlins                                                                                 | m | 12 |
| <u>Sawn softwood Grade 7</u>                                                                      |                                                                                                                  |   |    |
| 6                                                                                                 | 38 x 228mm Beam built into the brickwork                                                                         | m | 8  |
| <b><u>EAVES, VERGES, ETC.</u></b>                                                                 |                                                                                                                  |   |    |
| <u>Nutec fibre-cement or other equal and approved</u>                                             |                                                                                                                  |   |    |
| 7                                                                                                 | 10mm x 225mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers | m | 12 |
| 8                                                                                                 | 10 x 80 x 200mm Barge boards including H-profile jointing strips                                                 | m | 13 |
| Carried Forward                                                                                   |                                                                                                                  |   | R  |
| Section No. 5<br>Bill No. 6<br>CARPENTRY AND JOINERY<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                  |   |    |

| <b>Brought Forward</b>                             |                                                                                                                                                                                                                                                                                |    |   |  |  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--|--|
| <b><u>DOORS ETC</u></b>                            |                                                                                                                                                                                                                                                                                |    |   |  |  |
| <u>Wrought softwood doors hung to steel frames</u> |                                                                                                                                                                                                                                                                                |    |   |  |  |
| 9                                                  | 40mm Framed ledged, braced and battened door size 762 x 1932mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, hung 100mm from finished floor level (Refer to Door Schedule D1 on drawing - 6B-TB-WB)     | No | 3 |  |  |
| 10                                                 | 40mm Framed ledged, braced and battened door size 813 x 2032mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, hung to steel frame (elsewhere measured) (Refer to Door Schedule D2 on drawing - 6B-TB-WB) | No | 5 |  |  |
| 11                                                 | 40mm Framed ledged, braced and battened door size 927 x 2250mm high of 40 x 110mm wide top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, hung to steel frame (elsewhere measured) (Refer to Door Schedule D2 on drawing - 6B-TB-WB) | No | 1 |  |  |
| <b>Carried Forward to Summary of Section No. 5</b> |                                                                                                                                                                                                                                                                                |    |   |  |  |
| Section No. 5                                      |                                                                                                                                                                                                                                                                                |    |   |  |  |
| Bill No. 6                                         |                                                                                                                                                                                                                                                                                |    |   |  |  |
| CARPENTRY AND JOINERY                              |                                                                                                                                                                                                                                                                                |    |   |  |  |
| <b>KHANYISA SECONDARY SCHOOL</b>                   |                                                                                                                                                                                                                                                                                |    |   |  |  |
| <b>WIMS: 065544</b>                                |                                                                                                                                                                                                                                                                                |    |   |  |  |

## No

6

R

-164-

|                                  |                                                               |    |    |  |
|----------------------------------|---------------------------------------------------------------|----|----|--|
| Brought Forward                  |                                                               |    | R  |  |
| <u>"Dorma" or other approved</u> |                                                               |    |    |  |
| 2                                | "DRR-SS-012" 102 x 75 x 3mm Stainless steel rising butt hinge | No | 14 |  |
| <u>LOCKS</u>                     |                                                               |    |    |  |
| <u>"Union" or other approved</u> |                                                               |    |    |  |
| 3                                | " 2247-7855 Commercial Series" Four lever mortice lock        | No | 2  |  |
| <u>HANDLES</u>                   |                                                               |    |    |  |
| <u>"Union" or other approved</u> |                                                               |    |    |  |
| 4                                | "CB862-05CH" Brass Gower lever handles                        | No | 2  |  |
| Carried Forward                  |                                                               |    | R  |  |

Section No. 5  
Bill No. 7  
IRONMONGERY  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                    |                                                                                                                                                                                                                                                             |    | R |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| <b><u>SUNDRIES</u></b>                             |                                                                                                                                                                                                                                                             |    |   |
| <u>"Union" or other approved</u>                   |                                                                                                                                                                                                                                                             |    |   |
| 5                                                  | "CZ8731CH" Door stop fixed with counter-sunk bolt into anchor bolt                                                                                                                                                                                          | No | 2 |
| 6                                                  | 38mm Diameter rubber door stop, plugged and screwed to floor with 50mm long brass screw                                                                                                                                                                     | No | 6 |
| <b><u>LETTERS, NAMEPLATES, ETC.</u></b>            |                                                                                                                                                                                                                                                             |    |   |
| <u>Signage</u>                                     |                                                                                                                                                                                                                                                             |    |   |
| 7                                                  | 200 x 250mm Pressed aluminium with male, female symbol fixed to brickwork with 6 no. "Hilti" nail anchors                                                                                                                                                   | No | 2 |
| <b><u>BATHROOM FITTINGS</u></b>                    |                                                                                                                                                                                                                                                             |    |   |
| <u>Toilet roll holders</u>                         |                                                                                                                                                                                                                                                             |    |   |
| 8                                                  | 40 x 3mm Thick steel plate with 2 x 8mm holes and rawl bolts and 2 x 30mm holes to support roller bent to suit 27 diameter x 2mm thick steel pipe with hole for padlock and a 40 x 3mm thick steel plate welded on other end.(See architect drawing No.TRH) | No | 5 |
| <u>Metal hand rails</u>                            |                                                                                                                                                                                                                                                             |    |   |
| 9                                                  | Hand rails                                                                                                                                                                                                                                                  | No | 2 |
| <b>Carried Forward to Summary of Section No. 5</b> |                                                                                                                                                                                                                                                             |    | R |
| Section No. 5                                      |                                                                                                                                                                                                                                                             |    |   |
| Bill No. 7                                         |                                                                                                                                                                                                                                                             |    |   |
| IRONMONGERY                                        |                                                                                                                                                                                                                                                             |    |   |
| <b>KHANYISA SECONDARY SCHOOL</b>                   |                                                                                                                                                                                                                                                             |    |   |
| <b>WIMS: 065544</b>                                |                                                                                                                                                                                                                                                             |    |   |

| Item No                                                                                                                                                   | Quantity | Rate | Amount |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>SECTION No. 5</u></b>                                                                                                                               |          |      |        |
| <b><u>BILL No. 8</u></b>                                                                                                                                  |          |      |        |
| <b><u>METALWORK(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u></b>                                                                                  |          |      |        |
| <b><u>STANDARD PREAMBLES</u></b>                                                                                                                          |          |      |        |
| <b><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></b>                       |          |      |        |
| <u>Descriptions of bolts, anchors, etc</u>                                                                                                                |          |      |        |
| Descriptions of bolts shall be deemed to include nuts and washers                                                                                         |          |      |        |
| Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete |          |      |        |
| Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described                                                    |          |      |        |
| Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres                          |          |      |        |
| Carried Forward                                                                                                                                           |          | R    |        |
| Section No. 5<br>Bill No. 8<br>METALWORK<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                     |          |      |        |

Brought Forward

**WELDED GALVANISED STEEL SCREENS,  
GATES, ETC.**

Screens and gates

- 1 Single gate size 877 x 2250mm high of 40 x 60 x 3mm rectangular tubing with 12mm diameter steel rods at 110mm centre and 40 x 6mm horizontal support flat bars fixed with hinges to steel frame of 45 x 45 x 3mm rectangular tubing fixed to walls with bolts and lugs including padlock plate

No 3

**HOT DIPPED GALVANISED MILD STEEL DOOR  
FRAMES**

1.2mm Double rebated frames suitable for one brick walls

- 2 Frame for door 812 x 2032mm high

No 3

1.2mm Rebated frames suitable for half brick walls

- 3 Frame for door 762 x 1932mm high

No 6

**GALVANISED STEEL WINDOWS, DOORS, ETC**

SS industrial type windows

- 4 Window type W1, 1100 x 550mm high. (Refer to window schedule on drawing)

No 5

Carried Forward to Summary of Section No. 5

Section No. 5

Bill No. 8

METALWORK

KHANYISA SECONDARY SCHOOL

WIMS: 065544

R

R

**BILL No. 9**

**STRUCTURAL STEELWORK(CPAP WORK**  
**GROUP NO. 134 UNLESS OTHERWISE**  
**STATED)**

## STANDARD PREAMBLES

**Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply**

### GALVANISED STEEL POSTS, ETC

Hot dip galvanised full penetration welded posts with angle section cleats and flat section fixing plates bolted to concrete (Refer to Engineer's Drawing No. SK 301)

|   |                                                                                             |   |      |
|---|---------------------------------------------------------------------------------------------|---|------|
| 1 | 10mm Diameter x 3mm thick circular hollow section posts including all plates, fixings, etc. | t | 0.20 |
|---|---------------------------------------------------------------------------------------------|---|------|

Hot dip galvanised bolts

|   |                                                                      |    |    |
|---|----------------------------------------------------------------------|----|----|
| 2 | M12 Anchor bolts approximately 75mm long embedded in top of concrete | No | 26 |
|---|----------------------------------------------------------------------|----|----|

**Carried Forward to Summary of Section No. 5**

Section No. 5  
Bill No. 9  
**STRUCTURAL STEELWORK**  
**KHANYISA SECONDARY SCHOOL**  
**WIMS: 065544**

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quantity | Rate | Amount |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 5</u></b></p> <p><b><u>BILL No. 10</u></b></p> <p><b><u>PLASTERING(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      | R      |
| <p>Section No. 5<br/>Bill No. 10<br/>PLASTERING<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |        |

**Brought Forward**

R

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

Panels

Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

**Carried Forward**

R

Section No. 5

Bill No. 10

PLASTERING

KHANYISA SECONDARY SCHOOL

WIMS: 065544

| Brought Forward                                                                                                                                                                                                                                                                  |                                   |    | R   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----|-----|
| <u>Laying</u>                                                                                                                                                                                                                                                                    |                                   |    |     |
| Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels                                                                                                                                       |                                   |    |     |
| Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels |                                   |    |     |
| After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated                       |                                   |    |     |
| <u>Curing, seasoning and protection</u>                                                                                                                                                                                                                                          |                                   |    |     |
| Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying                                                                                                                                             |                                   |    |     |
| <b><u>SCREEDS</u></b>                                                                                                                                                                                                                                                            |                                   |    |     |
| <u>Screeds steel trowelled on concrete</u>                                                                                                                                                                                                                                       |                                   |    |     |
| 1                                                                                                                                                                                                                                                                                | 50mm Thick on floors and landings | m2 | 32  |
| <b><u>INTERNAL PLASTER</u></b>                                                                                                                                                                                                                                                   |                                   |    |     |
| <u>Cement plaster steel trowelled on brickwork</u>                                                                                                                                                                                                                               |                                   |    |     |
| 2                                                                                                                                                                                                                                                                                | On walls                          | m2 | 120 |
| 3                                                                                                                                                                                                                                                                                | On narrow widths                  | m2 | 6   |
| Carried Forward to Summary of Section No. 5                                                                                                                                                                                                                                      |                                   |    | R   |
| Section No. 5                                                                                                                                                                                                                                                                    |                                   |    |     |
| Bill No. 10                                                                                                                                                                                                                                                                      |                                   |    |     |
| PLASTERING                                                                                                                                                                                                                                                                       |                                   |    |     |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                                                                                                        |                                   |    |     |
| WIMS: 065544                                                                                                                                                                                                                                                                     |                                   |    |     |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
|         | <p><b><u>SECTION No. 5</u></b></p> <p><b><u>BILL No. 11</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b><br/> <b><u>(PROVISIONAL)(CPAP WORK GROUP NO.</u></b><br/> <b><u>148 UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><b><u>Note: Model Preambles for Trades 2017 as</u></b><br/> <b><u>published by the Association of South African</u></b><br/> <b><u>Quantity Surveyors shall apply</u></b></p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | R    |        |
|         | <p>Section No. 5</p> <p>Bill No. 11</p> <p>PLUMBING AND DRAINAGE (PROVISIONAL)</p> <p><b>KHANYISA SECONDARY SCHOOL</b></p> <p><b>WIMS: 065544</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |        |

|                                                                                                                                                                                                                      |                                                                   |    |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|
| Brought Forward                                                                                                                                                                                                      |                                                                   |    | R  |
| <u>Polypropylene pipes</u>                                                                                                                                                                                           |                                                                   |    |    |
| Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings                                     |                                                                   |    |    |
| Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions |                                                                   |    |    |
| <b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b>                                                                                             |                                                                   |    |    |
| <b><u>RAINWATER DISPOSAL</u></b>                                                                                                                                                                                     |                                                                   |    |    |
| <b><u>0.7mm Baked Enamel on aluminium gutter system in continuous lengths including hail brackets</u></b>                                                                                                            |                                                                   |    |    |
| 1                                                                                                                                                                                                                    | 150 x 150mm Ogee eaves gutters                                    | m  | 14 |
| 2                                                                                                                                                                                                                    | Extra over gutters for outlet for stop ends                       | No | 4  |
| <b><u>0.6mm Thick aluminium down pipes with white finish:</u></b>                                                                                                                                                    |                                                                   |    |    |
| 3                                                                                                                                                                                                                    | 100mm Diameter rainwater downpipes secured to walls with brackets | m  | 16 |
| 4                                                                                                                                                                                                                    | Extra over 100mm rainwater pipe for shoe                          | No | 4  |
| 5                                                                                                                                                                                                                    | Extra over 100mm rainwater pipe for bend                          | No | 4  |
| 6                                                                                                                                                                                                                    | Extra over 150mm gutter for swan neck                             | No | 2  |
| 7                                                                                                                                                                                                                    | Extra over gutters for outlet for stop ends                       | No | 2  |
| Carried Forward                                                                                                                                                                                                      |                                                                   |    | R  |
| Section No. 5<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                                                                     |                                                                   |    |    |

| Brought Forward                                                                                                  |                                                                                                                                                                                                                           |    | R  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>PRECAST CONCRETE CHANNELS</u></b>                                                                          |                                                                                                                                                                                                                           |    |    |
| 8                                                                                                                | 180 x 480mm Channel 1200mm long with segmental channel with one open end and one stopped end formed therein and finished smooth, including placing in position under shoe of rainwater pipe on a well rammed earth bottom | No | 2  |
| <b><u>STORMWATER DRAINAGE</u></b>                                                                                |                                                                                                                                                                                                                           |    |    |
| 9                                                                                                                | Excavation in earth not exceeding 1m deep for pipe trenches                                                                                                                                                               | m3 | 3  |
| 10                                                                                                               | Backfilling to pipe trenches compacted to 93% Mod AASHTO density                                                                                                                                                          | m3 | 2  |
| <u>Class 100D concrete pipes with interlocking joints</u>                                                        |                                                                                                                                                                                                                           |    |    |
| 11                                                                                                               | 110mm Pipes laid in trenches (trenches elsewhere)                                                                                                                                                                         | m  | 10 |
| <b><u>SOIL DRAINAGE</u></b>                                                                                      |                                                                                                                                                                                                                           |    |    |
| 12                                                                                                               | Excavation in earth not exceeding 1m deep for pipe trenches                                                                                                                                                               | m3 | 3  |
| 13                                                                                                               | Backfilling to pipe trenches compacted to 93% Mod AASHTO density                                                                                                                                                          | m3 | 2  |
| Carried Forward                                                                                                  |                                                                                                                                                                                                                           |    | R  |
| Section No. 5<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                           |    |    |

| Brought Forward                                                                                                  |                                                                                                                                                                                                                              |    | R  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>SANITARY FITTINGS</u></b>                                                                                  |                                                                                                                                                                                                                              |    |    |
| <u>"Atlas Plastics (Pty) Ltd" or other approved</u>                                                              |                                                                                                                                                                                                                              |    |    |
| 14                                                                                                               | Atlas Plastics "Aquarius Close Coupled Toilet" (code 570AP) colour Granite with seat, overall size 416 x 690 x 768mm high, with foot of pan grouted to the floor with 1:3 cement mortar                                      | No | 4  |
| 15                                                                                                               | Atlas Plastics "SC urinal" (Code 511AP) colour Granite with 40mm waterless waste - 496 (Code: 101228 ), overall size 350 x 320 x 470mm high plugged and screwed to wall with galvanised screws and brackets                  | No | 1  |
| 16                                                                                                               | Atlas Plastics "Christy" (Code 945AP) wash hand basin with splashback, colour Granite, overall size 580 x 410mm wide with 2 tap holes and 40mm waste outlet, plugged and screwed to wall with galvanised screws and brackets | No | 3  |
| 17                                                                                                               | Atlas Plastics "30 Litre Wash Trough" (Code 366AP) colour Granite (Code: 101133), overall size 528 x 412mm wide with 40mm waste outlet, plugged and screwed to the wall with galvanised screws and fixing brackets           | No | 1  |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                  |                                                                                                                                                                                                                              |    |    |
| <u>"Cobra Watertech" or other approved</u>                                                                       |                                                                                                                                                                                                                              |    |    |
| 18                                                                                                               | 15mm Chromium plated 'Star 136-15' stopcock                                                                                                                                                                                  | No | 12 |
| 19                                                                                                               | 15mm Chromium plated 'Star 106-15' basin bibtap                                                                                                                                                                              | No | 4  |
| 20                                                                                                               | 15mm Chromium plated elbow action pillartap (code 503-21B)                                                                                                                                                                   | No | 1  |
| 21                                                                                                               | 15mm Standard brass 'Plain 100-15' bibtap with flow straightener                                                                                                                                                             | No | 2  |
| Carried Forward                                                                                                  |                                                                                                                                                                                                                              |    | R  |
| Section No. 5<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                              |    |    |

## Brought Forward

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## SANITARY PLUMBING

### PVC-U soil and vent pipes

|    |                                                          |    |    |
|----|----------------------------------------------------------|----|----|
| 22 | 50mm Pipes                                               | m  | 12 |
| 23 | 160mm Pipes                                              | m  | 20 |
|    | <u>Extra over PVC-U soil and vent pipes for fittings</u> |    |    |
| 24 | 50mm Bend                                                | No | 6  |
| 25 | 50mm Access bend                                         | No | 6  |
| 26 | 50mm Junction                                            | No | 12 |
| 27 | 110mm Access bend                                        | No | 6  |
| 28 | 110mm End cap                                            | No | 2  |
| 29 | 110mm Bend                                               | No | 4  |

**Carried Forward**

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Section No. 5  
Bill No. 11  
PLUMBING AND DRAINAGE (PROVISIONAL)  
**KHANYISA SECONDARY SCHOOL**  
**WIMS: 065544**

| Brought Forward                                                                                                  |                                                                                                      |    | R  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----|----|
| <u>Extra over PVC-U soil and vent pipes for cast iron fittings</u>                                               |                                                                                                      |    |    |
| 30                                                                                                               | 110mm Bend                                                                                           | No | 2  |
| <b><u>TRAPS ETC</u></b>                                                                                          |                                                                                                      |    |    |
| <u>"Cobra Watertech" or other approved rubber traps</u>                                                          |                                                                                                      |    |    |
| 31                                                                                                               | 32 x 40mm Butyl rubber P-trap jointed to waste outlet fitting and to 50mm uPVC pipe including clamps | No | 4  |
| 32                                                                                                               | 100mm Diameter cast iron 'P' urinal trap                                                             | No | 1  |
| <b><u>WATER SUPPLIES</u></b>                                                                                     |                                                                                                      |    |    |
| 33                                                                                                               | Excavation in earth not exceeding 1m deep for pipe trenches                                          | m3 | 6  |
| 34                                                                                                               | Backfilling to pipe trenches                                                                         | m3 | 6  |
| <u>Class 10 HDPe type IV pipes</u>                                                                               |                                                                                                      |    |    |
| 35                                                                                                               | 15mm Pipes                                                                                           | m  | 18 |
| 36                                                                                                               | 15mm Pipes chased to brickwork                                                                       | m  | 5  |
| 37                                                                                                               | 22mm Pipes                                                                                           | m  | 18 |
| 38                                                                                                               | 22mm Pipes chased into brick walls                                                                   | m  | 6  |
| 39                                                                                                               | 22mm Pipes laid in and including trenches not exceeding 1m deep                                      | m  | 18 |
| 40                                                                                                               | 28mm pipes                                                                                           | m  | 36 |
| Carried Forward                                                                                                  |                                                                                                      |    | R  |
| Section No. 5<br>Bill No. 11<br>PLUMBING AND DRAINAGE (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                      |    |    |

| Brought Forward                                                                                         |    |      | R |
|---------------------------------------------------------------------------------------------------------|----|------|---|
| <u>Extra over Class 10 HDPe type IV pipes for fittings</u>                                              |    |      |   |
| 15mm Fittings                                                                                           | No | 20   |   |
| 28mm Fittings                                                                                           | No | 60   |   |
| 22mm Fittings                                                                                           | No | 20   |   |
| 22mm Reducer                                                                                            | No | 2    |   |
| 22mm Bend                                                                                               | No | 3    |   |
| <u>Class 10 HDPe type IV overflow and service pipes</u>                                                 |    |      |   |
| 15mm Bent service pipe average 400mm girth, one end fitted with brass adaptor and jointed to tap, etc., | No | 12   |   |
| 22mm Bent overflow pipe 500mm girth and joint to fitting                                                | No | 6    |   |
| <u>TESTING</u>                                                                                          |    |      |   |
| Allow for testing the whole of the sanitary plumbing and water supply                                   |    | Item |   |
| Carried Forward to Summary of Section No. 5                                                             |    |      | R |
| Section No. 5                                                                                           |    |      |   |
| Bill No. 11                                                                                             |    |      |   |
| PLUMBING AND DRAINAGE (PROVISIONAL)                                                                     |    |      |   |
| KHANYISA SECONDARY SCHOOL                                                                               |    |      |   |
| WIMS: 065544                                                                                            |    |      |   |

## 4

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**WIMS: 065544**

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 5</u></b></p> <p><b><u>BILL No. 13</u></b></p> <p><b><u>PAINTWORK(CPAP WORK GROUP NO. 152</u></b><br/><b><u>UNLESS OTHERWISE STATED)</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      | R      |
| <p>Section No. 5<br/>Bill No. 13<br/>PAINTWORK<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |        |

Brought Forward

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**SUPPLEMENTARY PREAMBLES**

Proprietary items or materials

Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Architect

SABS Specifications:

Matt or eggshell decorative paint for interior works :  
SANS 515

High gloss enamel paint : SABS 630 Grade I

Oil gloss enamel paint : SABS 631

Primers for wood for external work : SABS 678 Type I

Primers for wood for internal work : SABS 678 Type III

Undercoats for paints (except emulsion paint) : SABS  
681 Type I

Zink chromate primers for steel : SABS 679 Type I

Aluminium paint : SABS 682 Grade II

Structural steel paint : SABS 684 Type B

Roof paints : SABS 683 Type B

Wash primer (metal etch) : SABS 723

Varnish for interior use : SABS 887 Type I

Emulsion paints : SABS 1586

Colours:

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

Carried Forward

R

Section No. 5

Bill No. 13

PAINTWORK

KHANYISA SECONDARY SCHOOL

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Brought Forward

Protective Treatment to Structural Steel

Structural Steel work shall be cleaned and prepared by wire brushing in accordance with SABS 064 and all surfaces shall be treated with one coat of red lead primer complying with the SABS 132 type II grade 1 to a minimum thickness of 30 micron.

R

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PAINTWORK  
KHANYISA SECONDARY SCHOOL  
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**PAINTWORK ETC TO NEW WORK**

**"PLASCON" OR OTHER EQUAL AND APPROVED**

**ON INTERNAL FLOATED PLASTER SURFACES**

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use.

|   |       |    |     |
|---|-------|----|-----|
| 1 | Walls | m2 | 118 |
|---|-------|----|-----|

**ON FIBRE-CEMENT BOARD SURFACES**

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use.

|   |                                                                   |    |    |
|---|-------------------------------------------------------------------|----|----|
| 2 | Fascias and barge boards, including priming metal jointing strips | m2 | 13 |
|---|-------------------------------------------------------------------|----|----|

Carried Forward

R

Section No. 5  
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PAINTWORK  
KHANYISA SECONDARY SCHOOL  
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| Brought Forward                                                                                                                                                                                           |                                  |    | R  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----|----|
| <b><u>ON WOOD SURFACES</u></b>                                                                                                                                                                            |                                  |    |    |
| <u>Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on timber doors</u> |                                  |    |    |
| 3                                                                                                                                                                                                         | On doors                         | m2 | 28 |
| 4                                                                                                                                                                                                         | Door frames and linings          | m2 | 3  |
| <u>Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint</u>                                                        |                                  |    |    |
| 5                                                                                                                                                                                                         | Roof timbers at eaves and verges | m2 | 14 |
| Carried Forward to Summary of Section No. 5                                                                                                                                                               |                                  |    | R  |
| Section No. 5                                                                                                                                                                                             |                                  |    |    |
| Bill No. 13                                                                                                                                                                                               |                                  |    |    |
| PAINTWORK                                                                                                                                                                                                 |                                  |    |    |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                                                 |                                  |    |    |
| WIMS: 065544                                                                                                                                                                                              |                                  |    |    |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quantity | Rate | Amount |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 5</u></b></p> <p><b><u>BILL No. 14</u></b></p> <p><b><u>EXTERNAL WORKS</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL. IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>View Site</u></b></p> <p>Before submitting the tender, the contractor shall visit the site and satisfy himself/herself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> |          |      |        |
| Carried Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | R      |
| <p>Section No. 5<br/>Bill No. 14<br/>EXTERNAL WORKS (PROVISIONAL)<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |        |

Brought Forward

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**EARTHWORKS (PROVISIONAL)(CPAP WORK  
GROUP NO. 104 UNLESS OTHERWISE  
STATED)**

**CONCRETE V-DRAIN CHANNELS (ALL TRADES)  
(PROVISIONAL)**

**Testing of material and filling**

Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SANS 1200 series

**Excavations in earth not exceeding 2m deep**

|   |                  |    |    |
|---|------------------|----|----|
| 1 | To reduce levels | m3 | 12 |
|---|------------------|----|----|

**Extra over excavation in earth for excavation in**

|   |           |    |   |
|---|-----------|----|---|
| 2 | Hard rock | m3 | 2 |
|---|-----------|----|---|

|   |                   |    |   |
|---|-------------------|----|---|
| 3 | Intermediate rock | m3 | 2 |
|---|-------------------|----|---|

|   |           |    |   |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 2 |
|---|-----------|----|---|

**Carting away**

|   |                                                                                                                                 |    |    |
|---|---------------------------------------------------------------------------------------------------------------------------------|----|----|
| 5 | Extra over excavations for carting away surplus material from the excavations to a dumping site to be located by the contractor | m3 | 11 |
|---|---------------------------------------------------------------------------------------------------------------------------------|----|----|

**Keeping excavations free of water**

|   |                                                                 |  |      |
|---|-----------------------------------------------------------------|--|------|
| 6 | Keeping excavations free of water other than subterranean water |  | Item |
|---|-----------------------------------------------------------------|--|------|

Carried Forward

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Section No. 5  
Bill No. 14  
EXTERNAL WORKS (PROVISIONAL)  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

| Brought Forward                                                                                           |                                                                                                                                                                                                                                       |    | R  |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>EARTH FILLING, ETC</u></b>                                                                          |                                                                                                                                                                                                                                       |    |    |
| <u>Earth filling supplied by the contractor</u>                                                           |                                                                                                                                                                                                                                       |    |    |
| 7                                                                                                         | Imported selected fill (G5) in layer 150mm thick and compacted to 93% Mod AASHTO density                                                                                                                                              | m3 | 6  |
| <b><u>Compaction of surfaces</u></b>                                                                      |                                                                                                                                                                                                                                       |    |    |
| <u>Compaction of surfaces</u>                                                                             |                                                                                                                                                                                                                                       |    |    |
| 8                                                                                                         | Compaction of ground surfaces under pavings etc, including ripping up surface and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 41 |
| <b><u>TESTS</u></b>                                                                                       |                                                                                                                                                                                                                                       |    |    |
| <u>Prescribed density tests on filling</u>                                                                |                                                                                                                                                                                                                                       |    |    |
| 9                                                                                                         | Modified AASHTO Density test                                                                                                                                                                                                          | No | 3  |
| Carried Forward                                                                                           |                                                                                                                                                                                                                                       |    | R  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                                       |    |    |

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|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----|----|
| Brought Forward                                                                                           |                                                                                                                                   |    | R  |
| <b><u>SOIL POISONING</u></b>                                                                              |                                                                                                                                   |    |    |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                      |                                                                                                                                   |    |    |
| 10                                                                                                        | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming | m2 | 41 |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b>      |                                                                                                                                   |    |    |
| <u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>                                                            |                                                                                                                                   |    |    |
| <u>20Mpa/19mm Concrete</u>                                                                                |                                                                                                                                   |    |    |
| 11                                                                                                        | Surface blinding under surface beds, slabs, etc.                                                                                  | m3 | 6  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                   |    |    |
| <u>Finishing top surfaces of concrete smooth with a wood float</u>                                        |                                                                                                                                   |    |    |
| 12                                                                                                        | Concrete channel to falls                                                                                                         | m2 | 41 |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u></b>                            |                                                                                                                                   |    |    |
| <u>Rough formwork to sides</u>                                                                            |                                                                                                                                   |    |    |
| 13                                                                                                        | Apron slabs, paving and ramps not exceeding 300mm high                                                                            | m  | 41 |
| <u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces</u>                  |                                                                                                                                   |    |    |
| 14                                                                                                        | 10mm Joints not exceeding 300mm high                                                                                              | m  | 41 |
| Carried Forward                                                                                           |                                                                                                                                   |    | R  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                   |    |    |

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| Brought Forward                                                                                                                         |                                                                    |    | R  |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                                                     |                                                                    |    |    |
| <u>Fabric reinforcement</u>                                                                                                             |                                                                    |    |    |
| 15                                                                                                                                      | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 41 |
| <b><u>WATERPROOFING (CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                           |                                                                    |    |    |
| <b><u>JOINT SEALANTS, ETC</u></b>                                                                                                       |                                                                    |    |    |
| <u>"ABE Flexothane" or other approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> |                                                                    |    |    |
| 16                                                                                                                                      | In 10mm joints not exceeding 300mm high                            | m  | 41 |
| <b><u>WATER TANK SUPPORTS (ALL TRADES) (PROVISIONAL)</u></b>                                                                            |                                                                    |    |    |
| <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></b>                                                 |                                                                    |    |    |
| <b><u>EXCAVATION OTHER THAN BULK</u></b>                                                                                                |                                                                    |    |    |
| <u>Excavation in earth not exceeding 2m deep</u>                                                                                        |                                                                    |    |    |
| 17                                                                                                                                      | Bases                                                              | m3 | 6  |
| Carried Forward                                                                                                                         |                                                                    |    | R  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                               |                                                                    |    |    |

| Brought Forward                                                                                           |                                                                                                                                                                                                      |    | R    |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
|                                                                                                           | <u>Extra over trench and hole excavation in earth for excavation in</u>                                                                                                                              |    |      |
| 18                                                                                                        | Hard rock                                                                                                                                                                                            | m3 | 1    |
|                                                                                                           | <b><u>CARTING AWAY</u></b>                                                                                                                                                                           |    |      |
|                                                                                                           | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk)</u>                                                               |    |      |
| 19                                                                                                        | Off site to be located by the contractor                                                                                                                                                             | m3 | 4    |
|                                                                                                           | <b><u>EARTH FILLING, ETC</u></b>                                                                                                                                                                     |    |      |
|                                                                                                           | <b><u>Note: All filling whether obtained from the excavations, from stockpiles or by the contractor from an outside source must be selected and approved by the Structural / Civil Engineers</u></b> |    |      |
|                                                                                                           | <u>Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density</u>                                                                                         |    |      |
| 20                                                                                                        | Backfilling to trenches, holes, etc.                                                                                                                                                                 | m3 | 2    |
|                                                                                                           | <b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>                                                                                                                                                      |    |      |
|                                                                                                           | <u>Keeping excavations free of water</u>                                                                                                                                                             |    |      |
| 21                                                                                                        | Allow for keeping excavations free of water or mud by hand or machinery                                                                                                                              |    | Item |
| Carried Forward                                                                                           |                                                                                                                                                                                                      |    | R    |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                      |    |      |

|                                                                                                                   |                                                                                                                                                                                                                |    |    |  |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|
| Brought Forward                                                                                                   |                                                                                                                                                                                                                |    | R  |  |
| <b><u>COMPACTION</u></b>                                                                                          |                                                                                                                                                                                                                |    |    |  |
| <u>Compaction of surfaces</u>                                                                                     |                                                                                                                                                                                                                |    |    |  |
| 22                                                                                                                | Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod. AASHTO density. | m2 | 7  |  |
| <b><u>TESTS</u></b>                                                                                               |                                                                                                                                                                                                                |    |    |  |
| <u>Prescribed density tests on filling</u>                                                                        |                                                                                                                                                                                                                |    |    |  |
| 23                                                                                                                | Modified AASHTO Density test                                                                                                                                                                                   | No | 1  |  |
| <b><u>SOIL POISONING</u></b>                                                                                      |                                                                                                                                                                                                                |    |    |  |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                              |                                                                                                                                                                                                                |    |    |  |
| 24                                                                                                                | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                              | m2 | 13 |  |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b> |                                                                                                                                                                                                                |    |    |  |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>                                               |                                                                                                                                                                                                                |    |    |  |
| <u>10MPa Concrete</u>                                                                                             |                                                                                                                                                                                                                |    |    |  |
| 25                                                                                                                | Surface blinding under footings, bases, etc.                                                                                                                                                                   | m3 | 1  |  |
| Carried Forward                                                                                                   |                                                                                                                                                                                                                |    | R  |  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544         |                                                                                                                                                                                                                |    |    |  |

| Brought Forward                                                                                           |                                                                                                                                                                                       |      | R   |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| <b><u>REINFORCED CONCRETE</u></b>                                                                         |                                                                                                                                                                                       |      |     |
| <u>25MPa/19mm Concrete</u>                                                                                |                                                                                                                                                                                       |      |     |
| 26                                                                                                        | Surface beds                                                                                                                                                                          | m3   | 1   |
| 27                                                                                                        | Bases                                                                                                                                                                                 | m3   | 2   |
| <b><u>TEST BLOCKS</u></b>                                                                                 |                                                                                                                                                                                       |      |     |
| <u>Test blocks</u>                                                                                        |                                                                                                                                                                                       |      |     |
| 28                                                                                                        | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 1.0 |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                                                                       |      |     |
| <u>Finishing top surfaces of concrete with a wood float</u>                                               |                                                                                                                                                                                       |      |     |
| 29                                                                                                        | Surface beds, slabs, etc.                                                                                                                                                             | m2   | 14  |
| Carried Forward                                                                                           |                                                                                                                                                                                       |      | R   |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                       |      |     |

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|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----|------|
| Brought Forward                                                                                           |                                                                  |    | R    |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP NO. 111)</u></b>                           |                                                                  |    |      |
| <u>Rough formwork to sides</u>                                                                            |                                                                  |    |      |
| 30                                                                                                        | Edges, risers, ends and reveals not exceeding 300mm high or wide | m  | 14   |
| <u>Boxing in smooth formwork to form</u>                                                                  |                                                                  |    |      |
| 31                                                                                                        | 50mm Horizontal chamfer at corner                                | m  | 10   |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                       |                                                                  |    |      |
| <u>Mild steel reinforcement to structural concrete work</u>                                               |                                                                  |    |      |
| 32                                                                                                        | 10mm Diameter bars                                               | t  | 0.40 |
| <b><u>MASONRY (CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u></b>                                   |                                                                  |    |      |
| <b><u>BRICKWORK IN FOUNDATIONS</u></b>                                                                    |                                                                  |    |      |
| <u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u>       |                                                                  |    |      |
| 33                                                                                                        | One brick wall                                                   | m2 | 8    |
| Carried Forward                                                                                           |                                                                  |    | R    |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                  |    |      |

|                                                                                                                                          |                                                                                                                                                                                          |    |    |  |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|
| Brought Forward                                                                                                                          |                                                                                                                                                                                          |    | R  |  |
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                                                         |                                                                                                                                                                                          |    |    |  |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                                                            |                                                                                                                                                                                          |    |    |  |
| 34                                                                                                                                       | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 6  |  |
| <u>Brickwork reinforcement</u>                                                                                                           |                                                                                                                                                                                          |    |    |  |
| 35                                                                                                                                       | 150mm Wide reinforcement built in horizontally                                                                                                                                           | m  | 46 |  |
| <b><u>FACE BRICKWORK</u></b>                                                                                                             |                                                                                                                                                                                          |    |    |  |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u> |                                                                                                                                                                                          |    |    |  |
| 36                                                                                                                                       | Extra over brickwork for face brickwork                                                                                                                                                  | m2 | 8  |  |
| <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                      |                                                                                                                                                                                          |    |    |  |
| <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148</u></b>                                                                                      |                                                                                                                                                                                          |    |    |  |
| <b><u>UNLESS OTHERWISE STATED)</u></b>                                                                                                   |                                                                                                                                                                                          |    |    |  |
| <b><u>WATER SUPPLIES AND FIRE SERVICES</u></b>                                                                                           |                                                                                                                                                                                          |    |    |  |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                                          |                                                                                                                                                                                          |    |    |  |
| <u>"Cobra Watertech" or other approved</u>                                                                                               |                                                                                                                                                                                          |    |    |  |
| 37                                                                                                                                       | 15mm Rough brass hose bib tap as 'Cobra Watertech' Ref. No. 108-15 or other equal and approved including hose union, wall plate elbow, etc.                                              | No | 1  |  |
| Carried Forward                                                                                                                          |                                                                                                                                                                                          |    | R  |  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                |                                                                                                                                                                                          |    |    |  |

Brought Forward

R

**TANKS, ETC**

Polyethylene drinking water tanks

- 38 5000 Litre low profile circular tank size 2250mm diameter x 1800mm high, with access lid and inlet hole, embedded in pedestal to a minimum of 400mm above ground level and tied down with 2 No. off 4mm galvanised double strap stay wires tied to galvanised mild steel M12 eye bolt of which is to be drilled and fixed to the 4 corners of concrete supporting base

No

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EXTERNAL WORKS (PROVISIONAL)  
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**V- DRAINS (ALL TRADES) (PROVISIONAL)**

The Tenderer is referred to the relevant  
Clauses in the separate document Model  
Preambles for Trades (2008 Edition)

**EARTHWORKS (PROVISIONAL)(CPAP WORK  
GROUP NO. 104 UNLESS OTHERWISE  
STATED)**

**STANDARD PREAMBLES**

**Note: Model Preambles for Trades 2008 as  
published by the Association of South African  
Quantity Surveyors shall apply**

**Testing of material and filling**

**SITE CLEARANCE ETC**

**User Note:**

Where the value is of significance, the removal of  
hedges etc shall be given separately in meters or in  
number

**Site clearance**

- |    |                                                                                                                          |    |    |
|----|--------------------------------------------------------------------------------------------------------------------------|----|----|
| 39 | Digging up and removing rubbish, debris, vegetation,<br>hedges, shrubs and trees not exceeding 200mm girth,<br>bush, etc | m2 | 23 |
|----|--------------------------------------------------------------------------------------------------------------------------|----|----|

**EXCAVATION, FILLING, ETC. OTHER THAN BULK**

**Excavation in earth not exceeding 2m deep**

- |    |                             |    |   |
|----|-----------------------------|----|---|
| 40 | Reduced levels under floors | m3 | 7 |
|----|-----------------------------|----|---|

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| Brought Forward                                                                                           |                                                                                                                                                                                                                |    | R  |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <u>CARTING AWAY</u>                                                                                       |                                                                                                                                                                                                                |    |    |
| <u>Extra over all excavations for carting away</u>                                                        |                                                                                                                                                                                                                |    |    |
| 41                                                                                                        | Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor                                                                                                | m3 | 7  |
| <u>COMPACTION</u>                                                                                         |                                                                                                                                                                                                                |    |    |
| <u>Compaction of surfaces</u>                                                                             |                                                                                                                                                                                                                |    |    |
| 42                                                                                                        | Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod. AASHTO density | m2 | 23 |
| <u>Prescribed density tests on filling</u>                                                                |                                                                                                                                                                                                                |    |    |
| 43                                                                                                        | "Modified AASHTO Density" test                                                                                                                                                                                 | No | 2  |
| 44                                                                                                        | "Field Density" test including "Optimum Moisture Content" (four readings per test)                                                                                                                             | No | 2  |
| <u>SOIL POISONING</u>                                                                                     |                                                                                                                                                                                                                |    |    |
| <u>Soil Insecticide in accordance with SANS 5859</u>                                                      |                                                                                                                                                                                                                |    |    |
| 45                                                                                                        | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                              | m2 | 23 |
| Carried Forward                                                                                           |                                                                                                                                                                                                                |    | R  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                                |    |    |

|                                                                                                                         |                                                     |    |    |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|----|
| Brought Forward                                                                                                         |                                                     |    | R  |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b>                    |                                                     |    |    |
| <b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>                                                                   |                                                     |    |    |
| <u>20Mpa/19mm Concrete</u>                                                                                              |                                                     |    |    |
| 46                                                                                                                      | Surface beds, slabs, etc., to falls and currents    | m3 | 4  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                                         |                                                     |    |    |
| <u>Finishing top surfaces of concrete with a wood float finish</u>                                                      |                                                     |    |    |
| 47                                                                                                                      | Concrete channel to falls                           | m2 | 23 |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u></b>                                          |                                                     |    |    |
| <b><u>Rough formwork to sides</u></b>                                                                                   |                                                     |    |    |
| 48                                                                                                                      | V drains, paving and ramps not exceeding 300mm high | m  | 23 |
| <b><u>MOVEMENT JOINTS, ETC.</u></b>                                                                                     |                                                     |    |    |
| <u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces</u>                                |                                                     |    |    |
| 49                                                                                                                      | 10mm Joints not exceeding 300mm high                | m  | 23 |
| Carried Forward                                                                                                         |                                                     |    | R  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b> |                                                     |    |    |

|                                                                                                                                         |                                                                    |    |    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----|----|--|
| Brought Forward                                                                                                                         |                                                                    |    | R  |  |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                                                     |                                                                    |    |    |  |
| <u>Fabric reinforcement</u>                                                                                                             |                                                                    |    |    |  |
| 50                                                                                                                                      | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 23 |  |
| <b><u>WATERPROOFING (CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                           |                                                                    |    |    |  |
| <b><u>JOINT SEALANTS, ETC</u></b>                                                                                                       |                                                                    |    |    |  |
| <u>"ABE Flexothane" or other approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> |                                                                    |    |    |  |
| 51                                                                                                                                      | In 10mm joints not exceeding 300mm high                            | m  | 23 |  |
| Carried Forward                                                                                                                         |                                                                    |    | R  |  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                               |                                                                    |    |    |  |

|                                                           |                                                                                                                 |    |      |  |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----|------|--|
| Brought Forward                                           |                                                                                                                 |    | R    |  |
| <b><u>WALKWAYS (ALL TRADES)</u></b>                       |                                                                                                                 |    |      |  |
| <b><u>(PROVISIONAL)</u></b>                               |                                                                                                                 |    |      |  |
| <b><u>EXCAVATION OTHER THAN BULK</u></b>                  |                                                                                                                 |    |      |  |
| <b><u>Excavations in earth not exceeding 2m deep</u></b>  |                                                                                                                 |    |      |  |
| 52                                                        | To reduce levels                                                                                                | m3 | 30   |  |
| 53                                                        | Trenches                                                                                                        | m3 | 20   |  |
| <b><u>Risk of collapse of excavations</u></b>             |                                                                                                                 |    |      |  |
| 54                                                        | Sides of trench and hole excavations not exceeding 1,5m deep                                                    | m2 | 175  |  |
| <b><u>CARTING AWAY</u></b>                                |                                                                                                                 |    |      |  |
| <b><u>Extra over all excavations for carting away</u></b> |                                                                                                                 |    |      |  |
| 55                                                        | Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor | m3 | 30   |  |
| <b><u>Keeping excavations free of water</u></b>           |                                                                                                                 |    |      |  |
| 56                                                        | Keeping excavations free of all water other than subterranean water                                             |    | Item |  |
| Carried Forward                                           |                                                                                                                 |    | R    |  |
| Section No. 5                                             |                                                                                                                 |    |      |  |
| Bill No. 14                                               |                                                                                                                 |    |      |  |
| EXTERNAL WORKS (PROVISIONAL)                              |                                                                                                                 |    |      |  |
| KHANYISA SECONDARY SCHOOL                                 |                                                                                                                 |    |      |  |
| WIMS: 065544                                              |                                                                                                                 |    |      |  |

| Brought Forward                                                                                                         |                                                                                                                                                                                                                |    | R   |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| <b><u>COMPACTION</u></b>                                                                                                |                                                                                                                                                                                                                |    |     |
| <u>Compaction of surfaces</u>                                                                                           |                                                                                                                                                                                                                |    |     |
| 57                                                                                                                      | Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod. AASHTO density | m2 | 184 |
| <b><u>TESTS</u></b>                                                                                                     |                                                                                                                                                                                                                |    |     |
| <u>Prescribed density tests on filling</u>                                                                              |                                                                                                                                                                                                                |    |     |
| 58                                                                                                                      | "Modified AASHTO Density" test                                                                                                                                                                                 | No | 3   |
| 59                                                                                                                      | "Field Density" test including "Optimum Moisture Content" (four readings per test)                                                                                                                             | No | 2   |
| <b><u>SOIL POISONING</u></b>                                                                                            |                                                                                                                                                                                                                |    |     |
| <u>Soil Insecticide in accordance with SANS 5859</u>                                                                    |                                                                                                                                                                                                                |    |     |
| 60                                                                                                                      | Under concrete walkways, etc                                                                                                                                                                                   | m2 | 184 |
| Carried Forward                                                                                                         |                                                                                                                                                                                                                |    | R   |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br><b>KHANYISA SECONDARY SCHOOL</b><br><b>WIMS: 065544</b> |                                                                                                                                                                                                                |    |     |

| Brought Forward                                                                                           |                                                                                                                                                                                       |      | R   |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b>      |                                                                                                                                                                                       |      |     |
| <b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>                                                     |                                                                                                                                                                                       |      |     |
| <b><u>20Mpa/19mm Concrete</u></b>                                                                         |                                                                                                                                                                                       |      |     |
| 61                                                                                                        | Foundation beams                                                                                                                                                                      | m3   | 28  |
| 62                                                                                                        | Surface beds cast in panels                                                                                                                                                           | m3   | 38  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                                                                       |      |     |
| <b><u>15MPa Non-shrink grout</u></b>                                                                      |                                                                                                                                                                                       |      |     |
| 63                                                                                                        | Bedding approximately 25mm thick under 220 x 220mm base plate including chamfered edges all round                                                                                     | No   | 20  |
| <b><u>Finishing top surfaces of concrete with a broomed non-slip finish</u></b>                           |                                                                                                                                                                                       |      |     |
| 64                                                                                                        | Surface beds, slabs, etc                                                                                                                                                              | m2   | 184 |
| <b><u>Test blocks</u></b>                                                                                 |                                                                                                                                                                                       |      |     |
| 65                                                                                                        | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 2.0 |
| Carried Forward                                                                                           |                                                                                                                                                                                       |      | R   |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                       |      |     |

| Brought Forward                                                                                                                         |                                                                  |    | R   |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----|-----|
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                                                                    |                                                                  |    |     |
| <u>Rough formwork to sides</u>                                                                                                          |                                                                  |    |     |
| 66                                                                                                                                      | Edges, risers, ends and reveals not exceeding 300mm high or wide | m  | 150 |
| <b><u>MOVEMENT JOINTS, ETC.</u></b>                                                                                                     |                                                                  |    |     |
| <u>Expansion joints with bitumen impregnated fibreboard between vertical concrete surfaces</u>                                          |                                                                  |    |     |
| 67                                                                                                                                      | 10mm Joints not exceeding 300mm high                             | m  | 90  |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                                                     |                                                                  |    |     |
| <u>Fabric reinforcement</u>                                                                                                             |                                                                  |    |     |
| 68                                                                                                                                      | Type 193 fabric reinforcement in concrete surface beds, etc      | m2 | 184 |
| <b><u>WATERPROOFING (CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)</u></b>                                                           |                                                                  |    |     |
| <b><u>JOINT SEALANTS, ETC</u></b>                                                                                                       |                                                                  |    |     |
| <u>"ABE Flexothane" or other approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> |                                                                  |    |     |
| 69                                                                                                                                      | In 10mm joints not exceeding 300mm high                          | m  | 90  |
| Carried Forward                                                                                                                         |                                                                  |    | R   |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                               |                                                                  |    |     |

|                                                                                                                                                                                        |                                                                                                                                 |    |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----|------|--|
| Brought Forward                                                                                                                                                                        |                                                                                                                                 |    | R    |  |
| <b><u>WATER TANK SUPPORTS (ALL TRADES)</u></b>                                                                                                                                         |                                                                                                                                 |    |      |  |
| <b><u>(PROVISIONAL)</u></b>                                                                                                                                                            |                                                                                                                                 |    |      |  |
| <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK</u></b>                                                                                                                                       |                                                                                                                                 |    |      |  |
| <b><u>GROUP NO. 104 UNLESS OTHERWISE</u></b>                                                                                                                                           |                                                                                                                                 |    |      |  |
| <b><u>STATED)</u></b>                                                                                                                                                                  |                                                                                                                                 |    |      |  |
| <b><u>EXCAVATION OTHER THAN BULK</u></b>                                                                                                                                               |                                                                                                                                 |    |      |  |
| <u>Excavation in earth not exceeding 2m deep</u>                                                                                                                                       |                                                                                                                                 |    |      |  |
| 70                                                                                                                                                                                     | Bases                                                                                                                           | m3 | 6    |  |
| <u>Extra over trench and hole excavation in earth for excavation in</u>                                                                                                                |                                                                                                                                 |    |      |  |
| 71                                                                                                                                                                                     | Hard rock                                                                                                                       | m3 | 1    |  |
| <b><u>Carting away</u></b>                                                                                                                                                             |                                                                                                                                 |    |      |  |
| 72                                                                                                                                                                                     | Extra over excavations for carting away surplus material from the excavations to a dumping site to be located by the contractor | m3 | 4    |  |
| <b><u>EARTH FILLING, ETC</u></b>                                                                                                                                                       |                                                                                                                                 |    |      |  |
| Note: All filling whether obtained from the excavations, from stockpiles or by the contractor from an outside source must be selected and approved by the Structural / Civil Engineers |                                                                                                                                 |    |      |  |
| <u>Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density</u>                                                                           |                                                                                                                                 |    |      |  |
| 73                                                                                                                                                                                     | Backfilling to trenches, holes, etc.                                                                                            | m3 | 4    |  |
| <b><u>Keeping excavations free of water</u></b>                                                                                                                                        |                                                                                                                                 |    |      |  |
| 74                                                                                                                                                                                     | Keeping excavations free of water other than subterranean water                                                                 |    | Item |  |
| Carried Forward                                                                                                                                                                        |                                                                                                                                 |    | R    |  |
| Section No. 5                                                                                                                                                                          |                                                                                                                                 |    |      |  |
| Bill No. 14                                                                                                                                                                            |                                                                                                                                 |    |      |  |
| EXTERNAL WORKS (PROVISIONAL)                                                                                                                                                           |                                                                                                                                 |    |      |  |
| KHANYISA SECONDARY SCHOOL                                                                                                                                                              |                                                                                                                                 |    |      |  |
| WIMS: 065544                                                                                                                                                                           |                                                                                                                                 |    |      |  |

| Brought Forward                                                                                                   |                                                                                                                                                                                                               |    | R  |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b><u>Compaction of surfaces</u></b>                                                                              |                                                                                                                                                                                                               |    |    |
| 75                                                                                                                | Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod. AASHTO density | m2 | 7  |
| <b><u>TESTS</u></b>                                                                                               |                                                                                                                                                                                                               |    |    |
| <u>Prescribed density tests on filling</u>                                                                        |                                                                                                                                                                                                               |    |    |
| 76                                                                                                                | Modified AASHTO Density test                                                                                                                                                                                  | No | 1  |
| <b><u>SOIL POISONING</u></b>                                                                                      |                                                                                                                                                                                                               |    |    |
| <u>Soil insecticide in accordance with SANS 5859</u>                                                              |                                                                                                                                                                                                               |    |    |
| 77                                                                                                                | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming                                                                             | m2 | 13 |
| <b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u></b> |                                                                                                                                                                                                               |    |    |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>                                               |                                                                                                                                                                                                               |    |    |
| <u>10MPa Concrete</u>                                                                                             |                                                                                                                                                                                                               |    |    |
| 78                                                                                                                | Surface blinding under footings, bases, etc.                                                                                                                                                                  | m3 | 1  |
| Carried Forward                                                                                                   |                                                                                                                                                                                                               |    | R  |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544         |                                                                                                                                                                                                               |    |    |

| Brought Forward                                                                                           |                                                                                                                                                                                       |      | R   |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| <b><u>REINFORCED CONCRETE</u></b>                                                                         |                                                                                                                                                                                       |      |     |
| <u>25MPa/19mm Concrete</u>                                                                                |                                                                                                                                                                                       |      |     |
| 79                                                                                                        | Surface beds                                                                                                                                                                          | m3   | 6   |
| 80                                                                                                        | Bases                                                                                                                                                                                 | m3   | 10  |
| <b><u>TEST BLOCKS</u></b>                                                                                 |                                                                                                                                                                                       |      |     |
| 81                                                                                                        | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 1.0 |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                           |                                                                                                                                                                                       |      |     |
| <u>Finishing top surfaces of concrete with a wood float</u>                                               |                                                                                                                                                                                       |      |     |
| 82                                                                                                        | Surface beds, slabs, etc.                                                                                                                                                             | m2   | 6   |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP WORK GROUP NO. 111)</u></b>                           |                                                                                                                                                                                       |      |     |
| <u>Rough formwork to sides</u>                                                                            |                                                                                                                                                                                       |      |     |
| 83                                                                                                        | Edges, risers, ends and reveals not exceeding 300mm high or wide                                                                                                                      | m    | 10  |
| <u>Boxing in smooth formwork to form</u>                                                                  |                                                                                                                                                                                       |      |     |
| 84                                                                                                        | 50mm Horizontal chamfer at corner                                                                                                                                                     | m    | 10  |
| Carried Forward                                                                                           |                                                                                                                                                                                       |      | R   |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                       |      |     |

|                                                                                                           |                                                                                                                                                                                          |    |      |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| Brought Forward                                                                                           |                                                                                                                                                                                          |    | R    |
| <b><u>REINFORCEMENT (PROVISIONAL) (CPAP WORK GROUP NO. 114)</u></b>                                       |                                                                                                                                                                                          |    |      |
| <u>Mild steel reinforcement to structural concrete work</u>                                               |                                                                                                                                                                                          |    |      |
| 85                                                                                                        | 10mm Diameter bars                                                                                                                                                                       | t  | 0.10 |
| <b><u>MASONRY (CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u></b>                                   |                                                                                                                                                                                          |    |      |
| <b><u>BRICKWORK IN FOUNDATIONS</u></b>                                                                    |                                                                                                                                                                                          |    |      |
| <u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u>       |                                                                                                                                                                                          |    |      |
| 86                                                                                                        | One brick wall                                                                                                                                                                           | m2 | 8    |
| <b><u>BRICKWORK SUNDRIES</u></b>                                                                          |                                                                                                                                                                                          |    |      |
| <u>Bagging of 1:3 cement and sand mixture</u>                                                             |                                                                                                                                                                                          |    |      |
| 87                                                                                                        | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 4    |
| <u>Brickwork reinforcement</u>                                                                            |                                                                                                                                                                                          |    |      |
| 88                                                                                                        | 150mm Wide reinforcement built in horizontally                                                                                                                                           | m  | 46   |
| Carried Forward                                                                                           |                                                                                                                                                                                          |    | R    |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                          |    |      |

| Brought Forward                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                        |    | R |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| <b><u>FACE BRICKWORK</u></b>                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <u>"Corobrik Travertine FBA" or other approved face bricks in stretcher bond with ruled joints and perpend internally and externally</u> |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| 89                                                                                                                                       | Extra over brickwork for face brickwork                                                                                                                                                                                                                                                                                                                                | m2 | 4 |
| <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>(PROVISIONAL)(CPAP WORK GROUP NO. 148</u></b>                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>UNLESS OTHERWISE STATED)</u></b>                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>WATER SUPPLIES AND FIRE SERVICES</u></b>                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <b><u>TAPS, VALVES, ETC</u></b>                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <u>"Cobra Watertech" or other approved</u>                                                                                               |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| 90                                                                                                                                       | 15mm Rough brass hose bib tap as 'Cobra Watertech' Ref. No. 108-15 or other equal and approved including hose union, wall plate elbow, etc.                                                                                                                                                                                                                            | No | 1 |
| <b><u>TANKS, ETC</u></b>                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| <u>Polyethylene drinking water tanks</u>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |    |   |
| 91                                                                                                                                       | 5000 Litre low profile circular tank size 2250mm diameter x 1800mm high, with access lid and inlet hole, embedded in pedestal to a minimum of 400mm above ground level and tied down with 2 No. off 4mm galvanised double strap stay wires tied to galvanised mild steel M12 eye bolt of which is to be drilled and fixed to the 4 corners of concrete supporting base | No | 1 |
| Carried Forward                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                        |    | R |
| Section No. 5<br>Bill No. 14<br>EXTERNAL WORKS (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                |                                                                                                                                                                                                                                                                                                                                                                        |    |   |

Brought Forward

**PRECAST CONCRETE (CPAP WORK GROUP  
NO. 112 UNLESS OTHERWISE STATED)**

- 92 Infraset InfraBlok™ 425' or 'equal approved' Grey concrete retaining blocks size 425 x 340 x 180mm high in retaining wall system exceeding 1,2m high at 75° dry stacked on concrete foundation (elsewhere specified), stepped face and curved as required to suit slopes with horizontal bed joints, reinforced with geosynthetic cloth, with flexible 75mm diameter perforated drainage pipe encased in 400 x 220mm deep 19mm gravel wrapped in filter fabric behind the first layer of blocks, backfilled with 300mm layer of drainage sand and approved material, compacted and lightly tamped as the work proceeds. Laid in accordance with the latest editions of CMA Concrete Retaining Block Walls Installation Manual and Code of Practice

m2

40

**INFILTRATOR CHAMBER SYSTEM**

"KAYTECH" or equal and approved infiltrator chamber system

- 93 1220 x 1000 x 410mm High, high capacity chamber

No

1

Carried Forward to Summary of Section No. 5

Section No. 5  
Bill No. 14  
EXTERNAL WORKS (PROVISIONAL)  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

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**SECTION SUMMARY - TYPE B - PIT - TEACHERS - 3NO. WC SEATS - ABLU**

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| 4                                                          | WATERPROOFING                                      | 156     |        |
| 5                                                          | ROOF COVERINGS, ETC.                               | 159     |        |
| 6                                                          | CARPENTRY AND JOINERY                              | 163     |        |
| 7                                                          | IRONMONGERY                                        | 166     |        |
| 8                                                          | METALWORK                                          | 168     |        |
| 9                                                          | STRUCTURAL STEELWORK                               | 169     |        |
| 10                                                         | PLASTERING                                         | 172     |        |
| 11                                                         | PLUMBING AND DRAINAGE (PROVISIONAL)                | 179     |        |
| 12                                                         | GLAZING                                            | 180     |        |
| 13                                                         | PAINTWORK                                          | 185     |        |
| 14                                                         | EXTERNAL WORKS (PROVISIONAL)                       | 210     |        |
| <b>Carried to Final Summary</b>                            |                                                    |         | R      |
|                                                            |                                                    |         |        |
| Section No. 5<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                    |         |        |

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quantity | Rate | Amount |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <p><b><u>SECTION No. 6</u></b></p> <p><b><u>BILL No. 01</u></b></p> <p><b><u>ELECTRICAL WORK</u></b></p> <p><b><u>STANDARD PREAMBLES</u></b></p> <p><u>Note: Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors shall apply</u></p> <p><b><u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u></b></p> <p><b><u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL. IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Distribution boards etc</u></p> <p>Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings</p> <p><u>Switches, socket outlets, etc</u></p> <p>Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates</p> |          |      |        |
| <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | R    |        |
| <p>Section No. 6<br/>Bill No. 1<br/>ELECTRICAL WORK (PROVISIONAL)<br/>KHANYISA SECONDARY SCHOOL<br/>WIMS: 065544</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |        |

**Brought Forward**

Light fittings

Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described

ELECTRICAL 1. The work is to be carried out in accordance with SANS 10142 and the Occupational Health and Safety Act of 1993 as amended. The installation is to be tested and compliance certificate submitted on completion of works. 2. Workmanship must comply with good engineering practice. 3. All materials necessary to satisfactorily complete the installation as per the bill of quantities. 4. The scope of work is for the complete electrical installation as shown on the layout drawings / site instruction. 5.

The installation is to be covered by a 12 month unconditional guarantee, commencing from date of completion and acceptance of the works. 6.

Ablution Block Being Demolished - the contractor to make safe and disconnect the feeder cable from the incomer distribution board and also from the distribution board before the demolition of the ablution block. 7. Refurbished Ablution Block - the

contractor to verify that the electrical installation is compliant and advise the electrical engineer. 8. New Ablution Block - refer to electrical drawings layout. 9.

Light fittings as per the bill of quantities / site instruction. 10. All surface conduit to be mild steel galvanised. 11. 2.5mm<sup>2</sup> uPVC copper insulated wiring in conduit to be used LIGHTNING PROTECTION 1.

This work is to be carried out by a specialist 2.

The test result to be below 10 ohms. 3. 25mm<sup>2</sup> uPVC conduit dropper to be installed. 4. 50mm<sup>2</sup> Aluminium earth conductors to be used. 5. 10mm<sup>2</sup> Aluminium ridge conductor to be used for non-metal roofs. 6. Earth spike to be 1.8m. 7.

Stainless steel lugs, bolts and nuts.

R

**Carried Forward**

R

Section No. 6

Bill No. 1

ELECTRICAL WORK (PROVISIONAL)

**KHANYISA SECONDARY SCHOOL**

**WIMS: 065544**

| Brought Forward                                                                                                                                                 |                                                                                                                                                                                                                                                                           |      | R |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| <b><u>ELECTRICAL INSTALLATION (PROVISIONAL)</u></b>                                                                                                             |                                                                                                                                                                                                                                                                           |      |   |
| <b><u>GUARANTEE</u></b>                                                                                                                                         |                                                                                                                                                                                                                                                                           |      |   |
| 1                                                                                                                                                               | Guarantee the efficient and safe working of the whole installation for 12 months after hand over of the completed building to the Department.                                                                                                                             | Item |   |
| <b><u>EARTHING SYSTEM</u></b>                                                                                                                                   |                                                                                                                                                                                                                                                                           |      |   |
| 2                                                                                                                                                               | Earthing of wash hand basin and all cold and hot water piping, by means of standard copper tape earth strapping at regular intervals of 6m and connecting same to the electrical earth system at the distribution board (2 No wash hand basins )                          | No   | 3 |
| <b><u>TESTING</u></b>                                                                                                                                           |                                                                                                                                                                                                                                                                           |      |   |
| 3                                                                                                                                                               | After the installation has been completed the Electrical Contractor shall issue a certificate of compliance                                                                                                                                                               | Item |   |
| 4                                                                                                                                                               | Before issuing a certificate of compliance, an accredited person shall inspect and test each new installation or extension of an existing installation for compliance with the relevant standard                                                                          | Item |   |
| <b><u>P&amp; G's</u></b>                                                                                                                                        |                                                                                                                                                                                                                                                                           |      |   |
| 5                                                                                                                                                               | Preliminary and General                                                                                                                                                                                                                                                   | Item |   |
| <b><u>DISTRIBUTION BOARDS</u></b>                                                                                                                               |                                                                                                                                                                                                                                                                           |      |   |
| <u>Distribution boards complete with sheet metal trays, frames, sub frames, bus bars, provision for four future circuit breakers, labeling and legend cards</u> |                                                                                                                                                                                                                                                                           |      |   |
| 6                                                                                                                                                               | <i>Distribution board - indoor recessed mounted, enclosed type, supplied complete, with detailed shop drawing and specifications for engineers approval, incl. circuit breakers, surge protection, Earth &amp; Neutral busbars, any additional accessories, COC, etc.</i> | No   | 3 |
| 7                                                                                                                                                               | 20A CBI / HYMAG SX1-G3 single pole 230 V circuit breaker 5 kA fault level installed in existing main board                                                                                                                                                                | No   | 3 |
| Carried Forward                                                                                                                                                 |                                                                                                                                                                                                                                                                           |      | R |
| Section No. 6<br>Bill No. 1<br>ELECTRICAL WORK (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                                                       |                                                                                                                                                                                                                                                                           |      |   |

| Brought Forward                                                                                                           |                                                                                                                                                                                                 |    | R    |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| 8                                                                                                                         | 40A CBI / HYMAG SX1-G3 single pole 230 V circuit breaker 5 kA fault level installed in existing main board                                                                                      | No | 3    |
| 9                                                                                                                         | Allow to work on existing distribution board incl. updating of legend card and compliance for modifications                                                                                     |    | Item |
| <b><u>DISTRIBUTION CABLES</u></b>                                                                                         |                                                                                                                                                                                                 |    |      |
| <u>600/1000V rated cables laid in ground or in sleeves. To be protected when installed vertically up wall from ground</u> |                                                                                                                                                                                                 |    |      |
| 10                                                                                                                        | 10mm <sup>2</sup> 2 Core Airdec cable                                                                                                                                                           | m  | 202  |
| 11                                                                                                                        | Termination for 10 mm <sup>2</sup> 2 core cable above                                                                                                                                           | No | 8    |
| 12                                                                                                                        | 4mm <sup>2</sup> 2-Core CU 0,6/1kV PVC/ECC/PVC Cable (SANS1507) run in trench or Strapped to Cable Tray                                                                                         | m  | 176  |
| 13                                                                                                                        | Termination for 4mm <sup>2</sup> 2 core cable above                                                                                                                                             | No | 8    |
| <b><u>EARTHWORKS (PROVISIONAL)(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)</u></b>                                   |                                                                                                                                                                                                 |    |      |
| <b><u>EXCAVATION</u></b>                                                                                                  |                                                                                                                                                                                                 |    |      |
| 14                                                                                                                        | Excavate for and build cable inspection chamber with half brick sides fitted with 600 x 600 x 600 medium duty cover and frame complete with drain holes. Size internally 600 x 600 x 600mm deep | No | 3    |
| 15                                                                                                                        | Excavate not exceeding 600mm deep in soft intermediate rock material for cabling and cable pipe trench including bedding, backfilling, compaction and disposal of surplus material              | m3 | 81   |
| 16                                                                                                                        | Excavate not exceeding 600mm deep in hard rock for and cabling and cable pipe trench including bedding, backfilling, compaction and disposal of surplus material                                | m3 | 15   |
| Carried Forward                                                                                                           |                                                                                                                                                                                                 |    | R    |
| Section No. 6<br>Bill No. 1<br>ELECTRICAL WORK (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544                 |                                                                                                                                                                                                 |    |      |

|    |                                                                                                                                                  |                 |     |   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|---|
|    |                                                                                                                                                  | Brought Forward |     | R |
|    | <u>SLEEVES</u>                                                                                                                                   |                 |     |   |
| 17 | 50mm uPVC sleeves                                                                                                                                | m               | 110 |   |
| 18 | 50mm uPVC long radius bend                                                                                                                       | No              | 8   |   |
|    | <u>LIGHTING AND SMALL POWER</u>                                                                                                                  |                 |     |   |
|    | <u>Thin walled hot dipped galvanised conduits</u>                                                                                                |                 |     |   |
| 19 | 20mm Diameter surface mounted on brickwork                                                                                                       | m               | 40  |   |
| 20 | 20mm Diameter fixed on timber rafters                                                                                                            | m               | 131 |   |
|    | <u>Thin walled uPVC conduits</u>                                                                                                                 |                 |     |   |
| 21 | 20mm Diameter chased in brickwork                                                                                                                | m               | 105 |   |
| 22 | 20mm Diameter fixed on timber rafters                                                                                                            | m               | 210 |   |
|    | <u>CONDUIT BOXES AND FITTINGS</u>                                                                                                                |                 |     |   |
| 23 | 100 x 100 x 100/50mm Deep hot dipped galvanised box for 20mm diameter conduit in brick or concrete walls including conduit ends and cover        | No              | 8   |   |
| 24 | 65mm Round hot dipped galvanised box for 20mm diameter steel conduit in brick or concrete walls or ceiling void including conduit ends and cover | No              | 57  |   |
|    | <u>CONDUCTORS</u>                                                                                                                                |                 |     |   |
|    | <u>uPVC insulated stranded copper conductors drawn into wire ways</u>                                                                            |                 |     |   |
| 25 | 2.5mm <sup>2</sup>                                                                                                                               | m               | 800 |   |
|    | <u>LIGHT SWITCHES, SWITCHED SOCKET OUTLETS ETC.</u>                                                                                              |                 |     |   |
|    | <u>Switches etc. complete with cover plates fixed in flush boxes</u>                                                                             |                 |     |   |
| 26 | 20A Light switch with cover plate                                                                                                                | No              | 3   |   |
|    |                                                                                                                                                  |                 |     |   |
|    |                                                                                                                                                  | Carried Forward |     | R |
|    | Section No. 6                                                                                                                                    |                 |     |   |
|    | Bill No. 1                                                                                                                                       |                 |     |   |
|    | ELECTRICAL WORK (PROVISIONAL)                                                                                                                    |                 |     |   |
|    | <b>KHANYISA SECONDARY SCHOOL</b>                                                                                                                 |                 |     |   |
|    | <b>WIMS: 065544</b>                                                                                                                              |                 |     |   |

| Brought Forward                                                                                           |                                                                                                                                                                                                           |    | R   |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 27                                                                                                        | 20A IP65 Double pole Weatherproof Isolator                                                                                                                                                                | No | 8   |
| <b><u>LUMINARIES AND EQUIPMENT</u></b>                                                                    |                                                                                                                                                                                                           |    |     |
| <u>Luminaries or equipment complete with lamps, connections etc. mounted in position</u>                  |                                                                                                                                                                                                           |    |     |
| 28                                                                                                        | Type A - 14W LED Bulkhead, IP65 Rated, Regent Odin Pro or similar approved including trailing cable, all accessories, fixings, brackets, labelling, commissioning, and performance testing                | No | 40  |
| 29                                                                                                        | Type B - 1200mm 35W LED Linear Fitting, IP65 Rated, Regent Nimbus Pro or similar approved including trailing cable, all accessories, fixings, brackets, labelling, commissioning, and performance testing | No | 3   |
| 30                                                                                                        | Photocells inclusive of enclosure                                                                                                                                                                         | No | 3   |
| <b><u>LIGHTNING PROTECTION</u></b>                                                                        |                                                                                                                                                                                                           |    |     |
| <b><u>ABLUTION BLOCK</u></b>                                                                              |                                                                                                                                                                                                           |    |     |
| 31                                                                                                        | Undertake soil resistivity test, witnessed by the Engineer inclusive of submitting a typed test report/certificate                                                                                        | No | 1   |
| 32                                                                                                        | 10mm <sup>2</sup> Aluminium conductor                                                                                                                                                                     | m  | 105 |
| 33                                                                                                        | 50mm <sup>2</sup> uPVC insulated aluminium earth wire                                                                                                                                                     | m  | 60  |
| 34                                                                                                        | Bonding of earth tails to sheet trusses/roof sheeting/tiles                                                                                                                                               | No | 12  |
| 35                                                                                                        | Supply and install 25mm galvanised conduit                                                                                                                                                                | m  | 60  |
| 36                                                                                                        | Supply and install stainless steel lugs                                                                                                                                                                   | No | 15  |
| 37                                                                                                        | Supply and install stainless steel bolts and nuts                                                                                                                                                         | No | 15  |
| 38                                                                                                        | Supply and install stop cork box                                                                                                                                                                          | No | 15  |
| 39                                                                                                        | 1,8m Earth spike                                                                                                                                                                                          | No | 30  |
| Carried Forward                                                                                           |                                                                                                                                                                                                           |    | R   |
| Section No. 6<br>Bill No. 1<br>ELECTRICAL WORK (PROVISIONAL)<br>KHANYISA SECONDARY SCHOOL<br>WIMS: 065544 |                                                                                                                                                                                                           |    |     |

Brought Forward

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TESTING AND CERTIFICATE OF COMPLIANCE

40 Allow for testing of the complete installation to be witnessed by the Electrical Engineer, including the issue of SABS Certificate of Compliance of Earthing Systems, Annexures of recorded test results and "As Built" drawings as specified

No

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Carried to Final Summary

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Section No. 6  
Bill No. 1  
ELECTRICAL WORK (PROVISIONAL)  
KHANYISA SECONDARY SCHOOL  
WIMS: 065544

## FINAL SUMMARY

[illegible]



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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:  
ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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**PART C3. SCOPE OF WORKS**

| <b>C3.1 SCOPE OF WORKS</b><br><b>GCC FOR CONSTRUCTION WORKS (Edition 2 of 2010)</b>                            |                                                                                                                                                                                                                                                        |               |        |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|
| Scope of Works complied in accordance with SANS 10403 where reference is made to this part of SANS 1921-1:2004 |                                                                                                                                                                                                                                                        |               |        |
| Project title:                                                                                                 | DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAMME<br>PHASE 03: ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL                                                                                                                                |               |        |
| Tender no:                                                                                                     | ZNTD 06395 W                                                                                                                                                                                                                                           | Project Code: | 065544 |
| 1                                                                                                              | <b><u>SECTION 1</u></b><br><b><u>EXTENT OF THE WORKS</u></b>                                                                                                                                                                                           |               |        |
| 1.1                                                                                                            | <b>EMPLOYERS OBJECTIVES</b><br>Ensure all learners and teachers have acceptable toilets to use by building new and/or rehabilitating existing toilets.                                                                                                 |               |        |
| 1.2                                                                                                            | <b>OVERVIEW OF THE WORKS</b><br>Building new toilets for the school                                                                                                                                                                                    |               |        |
| 1.3                                                                                                            | <b>EXTENT OF THE WORKS</b><br>The contract comprises the construction of three new blocks of toilets and demolishing existing toilet blocks.                                                                                                           |               |        |
| 1.4                                                                                                            | <b>LOCATION OF THE WORKS</b><br>The site is situated within the premises of the Khanyisa Secondary school within the Montobello area located in Ozwathini Municipality.<br>GPS Co-ordinates for the site is 29 45242 Lattitude and 30 82351 Longitude. |               |        |
| 1.5                                                                                                            | <b>TEMPORARY WORKS</b><br>All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)                                                                                                                                    |               |        |
| 2                                                                                                              | <b><u>ENGINEERING</u></b>                                                                                                                                                                                                                              |               |        |
| 2.1                                                                                                            | <b>EMPLOYER'S DESIGN</b><br>Not applicable                                                                                                                                                                                                             |               |        |
| 2.2                                                                                                            | <b>DESIGN BRIEF</b><br>Not applicable                                                                                                                                                                                                                  |               |        |
| 2.3                                                                                                            | <b>DRAWINGS</b><br>See list of drawings/Annexure's attached to this document.                                                                                                                                                                          |               |        |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.4 | <p><b>DESIGN PROCEDURES</b></p> <p>Not applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3   | <p><b><u>PROCUREMENT</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3.1 | <p><b>PREFERENTIAL PROCUREMENT PROCEDURES</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|     | <p>This tender will be subject to the implementation of the Preferential Procurement Regulations, 2022, pertaining to the Preferential Procurement Policy Framework Act, Act Number 5 of 2000 and the relevant Supply Chain Management Legislation and the KwaZulu-Natal Supply Chain Management Policy Framework published by the KwaZulu-Natal Provincial Treasury. Tenderders are referred to <a href="http://www.kzntreasury.gov.za">www.kzntreasury.gov.za</a> for access to the relevant documents.</p> <p>Tenderders are advised to familiarize themselves with the contents of the KwaZulu-Natal Supply Chain Management Policy Framework regarding Preference Point Systems, evaluation of tenders appeals and other matters.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.2 | <p><b>RESOURCE STANDARD PERTAINING TO TARGETED PROCUREMENT</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     | <p>NOTE : This project will be adjudicated as not exceeding R 50,000 000,00</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.3 | <p><b>SCOPE OF MANDATORY SUBCONTRACT WORK</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|     | <p>Not applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.4 | <p><b>PREFERRED SUBCONTRACTORS/SUPPLIERS</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|     | <p>Not applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.5 | <p><b>SUBCONTRACTING PROCEDURES</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|     | <p>Not applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4   | <p><b><u>CONSTRUCTION</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4.1 | <p><b>APPLICABLE SANS 2001 STANDARDS FOR CONSTRUCTION WORKS</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|     | <p>The Contractor is referred to the "Model Preambles to Trades - 2008", any "Supplementary Preambles", the Electrical Specifications and Mechanical Specification for full descriptions of materials and methods referred to in these Bills of Quantities/Lump Sum documents, insofar as they apply. The Contractor is advised to study the "Standard Preambles to all Trades", any "Supplementary Preambles", the Electrical Specifications and Mechanical Specification, before pricing Bills of Quantities/Lump Sum documents.</p> <p>Where the description in the Bills of Quantities/Lump Sum documents differ from those in the Standard Electrical Specifications, the descriptions in the Bills of Quantities/Lump Sum documents are to apply. No claim whatsoever will be allowed in respect of errors in pricing due to brevity of description of items in the Bills of Quantities/Lump Sum documents which are fully described when read in conjunction with the relevant Preambles and/or Specifications. Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9000 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.</p> <p>Wherever the words "shall be deemed to be included in the description", "shall be stated" or other words having the same effect, appear in the Standard System, it shall be deemed that all descriptions in these Bills of Quantities/Lump Sum documents incorporated such inclusions and statements whether specifically stated or not.</p> <p>The Contractor is hereby informed that where SABS/SANS Specifications are referred to in these Bills of Quantities/Lump Sums documents and Specifications thereto, then ONLY the Specification of Work Clauses will apply. The method of measurement and payment clauses will NOT apply to this Contract.</p> <p>The Contractor is hereby informed that risk of collapse and keeping excavations free from water (excluding subterranean water) generally are deemed to be included in the descriptions unless accommodated in the system of measurement. Please refer to the Geotechnical Investigation report when included at the end of these tender documents.</p> <p>Whenever reference is made to "Sub-Contractor", "Nominated Sub-Contractor" or the like in the specifications included or referred to in these Bills of Quantities/Lump Sums documents, it shall be deemed to mean "Contractor" as defined.</p> |

| 4.2                                                          | <b>APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS</b><br><br>See above 4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|---------------------------------------------|--------------|--------------------------------------------------------------|--|---------------------------------|---------|----------------------------------|-------------|-----------------------------------|--------------|
| 4.3                                                          | <b>PARTICULAR / GENERIC SPECIFICATIONS</b><br><br>The Contractor is referred to the following documents whether attached to this document or not:<br><table border="0"> <thead> <tr> <th><u>SPECIFICATION</u></th><th><u>PAGES</u></th></tr> </thead> <tbody> <tr> <td>Specification for HIV/AIDS Awareness (CIDB)</td><td>HIV1 TO HIV3</td></tr> <tr> <td>Specific Construction, Safety, Health and Environmental Plan</td><td></td></tr> <tr> <td>Model Preambles for Trades 2008</td><td>1 to 49</td></tr> <tr> <td>General Electrical Specification</td><td>E/1 to E/20</td></tr> <tr> <td>Lightning Protection Installation</td><td>LP/1 to LP/6</td></tr> </tbody> </table>                                                                                                                         | <u>SPECIFICATION</u> | <u>PAGES</u> | Specification for HIV/AIDS Awareness (CIDB) | HIV1 TO HIV3 | Specific Construction, Safety, Health and Environmental Plan |  | Model Preambles for Trades 2008 | 1 to 49 | General Electrical Specification | E/1 to E/20 | Lightning Protection Installation | LP/1 to LP/6 |
| <u>SPECIFICATION</u>                                         | <u>PAGES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| Specification for HIV/AIDS Awareness (CIDB)                  | HIV1 TO HIV3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| Specific Construction, Safety, Health and Environmental Plan |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| Model Preambles for Trades 2008                              | 1 to 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| General Electrical Specification                             | E/1 to E/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| Lightning Protection Installation                            | LP/1 to LP/6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| 4.4                                                          | <b>CERTIFICATION BY RECOGNIZED BODIES</b><br><br>Only contractors registered with the Electrical Contracting Board of South Africa in accordance with the Regulations of the Occupational Health and Safety Act will be accepted and permitted to do work under this contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| 4.5                                                          | <b>AGRÉMENT CERTIFICATES</b><br><br>Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| 4.6                                                          | <b>PLANT AND MATERIAL PROVIDED BY THE EMPLOYER</b><br><br>Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| 4.7                                                          | <b>SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER</b><br><br>Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| 4.8                                                          | <b>OTHER SERVICES AND FACILITIES</b><br><br>The Contractor shall provide any artificial lighting which may be necessary or required for the proper execution of the works, and provide electric power and water required by all Sub-Contractors, Nominated Sub-Contractors and Sub-Contractors appointed directly by the Administration.<br>The Contractor shall give all notices and pay all fees in connection with temporary electrical and water connections and shall connect temporary Electrical and Water meters for and pay for all current and water consumed.<br>The Contractor is advised that the permanent light fittings and water points of any kind installed in the Works are not to be used to provide temporary lighting and supplement water requirements for construction purposes. |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |
| 5                                                            | <b><u>MANAGEMENT</u></b><br><br>5.1 <b>APPLICABLE SANS 1921 STANDARDS</b><br><br>Tenderders are referred to<br>SECTION 2 : SPECIFICATION DATA ASSOCIATED WITH SANS 1921-1:2004 IN THIS DOCUMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |              |                                             |              |                                                              |  |                                 |         |                                  |             |                                   |              |

## 5.2 RECORDING OF WEATHER

The Contractor shall keep record of abnormal climatic conditions to facilitate the adjudication of claims for extension of the contract period.

The Contractor shall allow in his programme for the following number of days for rain days (rain > 10mm per day) as per the table below:

| CURRENT YEAR |        |   | YEAR + 1 | YEAR + 2 |
|--------------|--------|---|----------|----------|
| January      | w/days |   | 3        | 3        |
| February     | w/days |   | 3        | 3        |
| March        | w/days |   | 3        | 3        |
| April        | w/days |   | 3        | 3        |
| May          | w/days |   | 3        | 3        |
| June         | w/days |   | 3        | 3        |
| July         | w/days |   | 3        |          |
| August       | w/days |   | 3        |          |
| September    | w/days |   | 3        |          |
| October      | w/days |   | 3        |          |
| November     | w/days |   | 3        |          |
| December     | w/days | 3 | 3        |          |

## 5.3 MANAGEMENT MEETINGS

In order to facilitate the smooth functioning of the Works and to ensure the closest co-operation between all the parties concerned, the Employer will call for regular meetings to be held on the site, at which a senior member of the Contracting firm and the General Foreman of the Works will always be required to be present. In addition to the above, other persons will be required to attend these meetings as and when their presence is necessary, e.g., Consultants in all disciplines, representatives of the various Sub-Contractors, etc. Proper minutes of these meetings will be kept by the Employer/Principal Agent and copies will be circulated to all persons attending the meetings and to others who need to be kept informed.

## 5.4 FORMS FOR CONTRACT ADMINISTRATION

The Employer shall provide all necessary forms.

## 5.5 ELECTRONIC PAYMENTS

The Contractor shall provide all required information to the Employer to facilitate electronic payments upon request.

## 5.6 DAILY RECORDS

The Contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site.

At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all Sub-Contractors on the works each day.

At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.

## 5.7 BONDS AND GUARANTEES

The Contractor shall within 10 calendar days after receiving notice from the Engineer and prior to receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the Contract Data.

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.8            | <b>PAYMENT CERTIFICATES</b><br><br>Requirements will be in accordance with the Employers prescriptions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5.9            | <b>PERMITS</b><br><br>The Contractor is advised that, in the case of an existing building or institution, all security measures in force will remain in operation and he must acquaint himself and his Employees with them as he and his Employees will at all times be subject to these measures.<br>The Contractor will on no account extend his operations beyond the confines of the building site as indicated by the Employer and must ensure that all his Employees are made aware of these limits. Any Employee disregarding this instruction and found outside the limit of the building site without authority, shall be redeployed immediately and shall not again be employed on this Contract.<br>The Contractor will be responsible for ensuring that this instruction is strictly enforced and must provide and remove upon completion or when directed, such other necessary temporary barriers, fences, etc., as may be required and is to allow opposite this item for any charges he may wish to make in this connection.<br>The Employer will accept no responsibility whatsoever for damage to or the loss of plant, materials, etc., from the site. |
| 5.10           | <b>PROOF OF COMPLIANCE WITH THE LAW</b><br><br>The following certificates must be provided before first delivery is taken:<br>- HIV/STI Report (Bound into this document)<br>- Electrical Compliance Certificate<br>- Plumbing Compliance Certificate<br>- Lightning Certificate<br>- Soil Protection Certificate<br>- Concrete test and cube certificates<br>- Waterproofing Guarantee certificates<br>- TR1 and TR2 prefabricated roof truss certificates<br>- Soil compaction certificates<br>- Electrical and Mechanical test certificates<br>- Plumbing and drainage pressure test certificates<br>- Fire Compliance Certificate<br>- Entomology Certificate<br>- SANS 10400-A:2010 compliance certificates<br>- Latest National Building Regulation                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.11           | <b>INSURANCE PROVIDED BY THE EMPLOYER</b><br><br>Not Applicable<br><br><u><b>SECTION 2</b></u><br><br><u><b>SPECIFICATION DATA ASSOCIATED WITH SANS 1921-2004</b></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clause Numbers | <b>4.1.7 The requirements for drawings, information and calculations for which the Contractor is responsible are:</b><br>Prefabricated roof trusses design must be submitted for approval 30 days prior to erections.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                | <b>4.2.1 The responsibility strategy assigned to the Contractor for the works is:</b><br>Strategy A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                | <b>4.2.2 The structural engineer is:</b><br>Public Works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                | <b>4.2.3 Drawings &amp; other info are to be submitted in accordance with the contractors programme</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.3    | <p><b>The planning, programme and method statement are to comply with the following:</b></p> <p>N/A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4.12.1 | <p><b>Samples of materials</b></p> <p>The work is to be executed with materials of the best specified and in the most substantial and workmanlike manner under the inspection of the Employer and to his satisfaction.</p> <p>The Contractor shall furnish, without delay, such samples as called for or may be called for by the Employer, who may reject all materials or workmanship not corresponding with the approved sample.</p> <p>The samples of materials, workmanship and finishes that the Contractor is to provide and deliver to the employer are:</p> <ul style="list-style-type: none"> <li>- Tile sample.</li> <li>- Brick sample.</li> <li>- Light fitting sample.</li> <li>- Screed panel 2m x 2m impact test.</li> <li>- Tested trial mix to be approved by the Engineer.</li> </ul> <p><b>4.12.2 Fabrication drawings that the contractor is to provide to the employer are:</b></p> <p>None</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4.12.3 | <p><b>Office accommodation, equipment, accommodation for site meetings and other facilities for use by the employer and his agents are:</b></p> <p><b>OFFICE FOR FOREMAN</b></p> <p>Provide, erect, maintain and remove at completion a suitable temporary office for the Contractor or his Foreman, perfectly secured, lighted and ventilated and having a desk with drawers.</p> <p><b>TELEPHONE</b></p> <p>The Contractor shall provide a telephone on the site for the use of the Contractor and all Sub-Contractors for the duration of the Contract, and must make the necessary application for connection, give all notices and pay all fees, rentals and charges for the service and also for all calls.</p> <p><b>OFFICE FOR INSPECTOR OF WORKS</b></p> <p>Provide, erect, maintain and remove at completion a well constructed temporary office for the Inspector of Works not less than 4 x 3 m on plan and 3 m high to eaves to the approval of the Employer. The office shall be constructed of wood framing covered externally with corrugated iron or corrugated asbestos and with a lean-to roof covered with the same material as the external wall covering. The office shall be lined internally with soft board or other approved material and a ceiling shall be provided of the same material as the internal lining. A suspended wood floor shall be provided and is to finish not less than 300 mm above the ground level. A lockable door and a window, which provides adequate light and ventilation, shall be fitted.</p> <p>An office constructed of 115 mm thick brick-work and provided with a screeded concrete floor and roofed and ceiled as above described may be accepted as an alternative but prior permission of the Employer will be necessary before construction of such an office is commenced and his requirements shall be stated and fulfilled by the Contractor.</p> <p>The office shall be fitted in an approved manner with a sloping topped desk of height and length suitable for the laying out and studying of drawings, a desk or table with not less than two lock-up drawers, shelves, seating and wash-stand, and the Contractor shall provide all necessary attendance.</p> <p><b>TELEPHONE IN OFFICE FOR INSPECTOR OF WORKS</b></p> <p>The Contractor shall arrange for the installation of a lockable telephone in the Office for the Inspector of Works for the duration of the Contract. The Contractor will be required to make the necessary application for connection and give all notices on behalf of the Employer. The Employer will, however, be responsible for the direct payment of all fees, rentals and other charges by Telkom for the service for the Inspector of Works and for all calls made from this telephone.</p> |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p><b>SHED</b></p> <p>Provide, erect, maintain and remove at completion, ample temporary sheds for the proper storage of materials and for the use of the workmen, and remove when no longer required.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p><b>4.14.6</b></p> | <p><b>The requirement for provision and erection of signboards are:</b></p> <p>Supply, erect, maintain and remove at completion a painted notice board, size overall 2800 x 2345 mm high sign written to detail as Drawing No. T9506 which drawing is available from offices of the Department of Public Works. Only the official notice board is to be displayed on the site and no Sub-Contractor's boards will be permitted. The Contractor, at his own cost, may provide a board on which all sub-contract firms' names may be sign written. The notice board is to be to the approval of the Employer and is to be maintained in first class condition and placed where directed at the entrance to the site and remain there for the duration of the Contract.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>4.17.1</b></p> | <p><b>Requirement for the termination, diversion or maintenance of existing services:</b></p> <p>Should the Contractor come in contact with any underground cables or pipes during excavations, immediate notification must be made to the Employer and all work in the vicinity of such cables, pipes, etc., shall cease until authority to proceed has been obtained from the Employer. Should the Contractor damage underground cables or pipes resulting in a disruption of services to an existing institution such damage shall be repaired immediately.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>4.17.3</b></p> | <p><b>Services which are known to exist on the site:</b></p> <p>Investigate and provide detail drawings.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>4.17.4</b></p> | <p><b>Requirement for detection apparatus</b></p> <p>None</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>4.18</b></p>   | <p><b>ADDITIONAL HEALTH AND SAFETY REQUIREMENTS ARE:</b></p> <p>By the submission of a tender, any Tenderer will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act. As a mandatory the successful Tenderer will be deemed to be the "principal contractor" and an employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed and machinery and plant used in accordance with the Act. Should the Contractor, for whatever reason be unable to perform as required by the Act, the Contractor undertakes to inform the Employer accordingly. Tenderers are advised that it is a Condition of this Tender that a 'Construction Phase Safety, Health and Environmental Plan' specifically relates to the project for which tenders are being submitted and must be prepared by the Tenderer and submitted with the other tender documents at the time of tender. Failure to do so will invalidate the tender.</p> <p>Tenderers are therefore advised to study the 'Construction Safety, Health and Environmental Specification' which is issued as part of this tender document, the Model Preambles to Trades - 2008, any project Specification included in this tender document and any and all drawings which are referred to and issued as part of this tender document before preparing their own project specific 'Construction Phase Safety, Health and Environmental Plan'. Tenderers are also advised that such a plan which is submitted with a tender but is incomplete or considered inadequate by the Employer or his Representative will invalidate the tender.</p> <p>The Contractor will be deemed to have satisfied himself with his obligations in terms of the Act and to have allowed for all costs arising from compliance with the Act as no claim for extra costs arising from compliance with, and obligations in terms of the Act will be entertained.</p> |
| <p><b>4.22</b></p>   | <p><b>WORK BY NOMINATED AND SELECTED SUBCONTRACTORS COMPRISE:</b></p> <p>[Provide list of applicable contractors]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## C3.2 - SPECIFICATION FOR HIV/AIDS AWARENESS

### 1 Scope

This generic specification contains requirements applicable to the reduction of the risk of transfer of the HIV virus between and among construction workers and the local community through the following four strategies:

- a) raising awareness about HIV/AIDS;
- b) providing construction workers with access to condoms;
- c) HIV counselling, testing and referral services; and
- d) Sexually Transmitted Infection diagnosis and treatment.

### 2 Normative references:

The following standard contains provisions that, through reference in this text, constitute provisions of this standard:

SANS 4074 ISO 4074, *Condom Rubbers*

### 3 Definitions and Abbreviations

#### 3.1 Definitions

**Construction Worker:** all persons in the employ of the contractor or in the employ of any of the subcontractors contracted by the contractor.

**Local Community:** the communities local to the site which are most likely to have contact with the construction worker and, in particular, sex workers in those communities.

**Service provider:** the natural or juristic person recognised by the South African Department of Health as specialist in conducting Aids Awareness Programmes.

#### 3.2 Abbreviations

STI: Sexually transmitted infection

HIV: Human Immunodeficiency Virus

AIDS: Acquired Immune Deficiency Syndrome

### 4 Objectives

The objectives are to:

- a) reduce the risk of transfer of the HIV virus between and among construction workers and the local community;
- b) raise awareness amongst construction workers and the local community of the risk of infection with the HIV virus;
- c) promote early diagnosis; and
- d) assist affected individuals to access care and counselling.

## 5 Requirements

### 5.1 General requirement

The contractor shall, in order to satisfy the objectives stated in 4:

- a) make condoms complying with the requirements of SABS ISO 4074 available to all construction workers at readily accessible points on the site, suitably protected from the elements, for the duration of the contract;
- b) either place and maintain HIV/AIDS awareness posters of size of not less than A1 in areas which are highly trafficked by construction workers, or provide construction workers with a pamphlet, in languages largely understood by construction workers, which
- c) encourage voluntary HIV/STI testing;
- d) provide information concerning counselling, support and care of those that are infected services; and
- e) comply with the requirements of 5.2.

***The provisions of 5.1 c) and d) do not apply to this contract.***

### 5.2 HIV awareness programme

**5.2.1** The contractor shall:

- a) engage a qualified service provider as described in the scope of works to conduct an HIV Awareness Programme which is structured to achieve the outcomes stated in 5.2.3 for contract workers as soon as a construction workers camp is established and populated or, where no such camp is established, within two weeks of the commencement of a significant portion of the works and at subsequent intervals, if any, provided for in the scope of works; and
- b) arrange for, provide a suitable venue, and instruct all construction workers to attend the HIV Awareness Programme and notify the Employer's Representative of the date, time and venue whenever a session with construction workers is conducted.

**Note:** The National Department of Public Works maintains a list of qualified service providers.

**5.2.2** The contractor shall do nothing to dissuade construction workers from attending such an HIV Awareness Programme and shall take all reasonable steps to ensure that a minimum of 90% of construction workers engaged in the works attend such a programme, when it is conducted.

**5.2.3** The outcomes of the HIV Awareness Programme shall as a minimum, result in contract workers exposed to such a programme being able to:

- a) communicate the existence of problems of HIV and be able to outline the consequences of transmission of HIV to or from the local community;
- b) recall and communicate the mode of HIV transmission and preventative measures including the proper use of the condom.

The HIV/ Aids awareness programme described in 5.2 is to be repeated at four month intervals throughout the duration of the contract. (Four times in total, including the initial one at the start of the contract)

### 5,3 Reporting

- 5.3.1** The contractor shall prepare and attach to his claims for payment a brief report which outlines how the actions taken by the contractor in the period for which payment is claimed satisfy the requirements and a schedule which lists the names, identity numbers, trade / occupation and name of employer of all construction workers exposed to the programme (see **HIV/STI Compliance Report**).
- 5.3.2** The employer's representative shall certify the report and schedule described in 5.3.1 whenever a claim for payment is issued to the employer.

**Note:** In the event that the contractor fails to satisfy the requirements of this specification, the employer (Head: Public Works) may apply any of the sanctions provided for in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum.

The *HIV /Aids* awareness programme described in 5.2 shall in addition *be conducted* for the benefit of the local community on two occasions in the community centre nearest to the building site. The contractor shall be *responsible* for inviting identifiable community-based *institutions and organisations, churches, and schools to participate in the programme.*

## C3.3 - HIV/STI COMPLIANCE REPORT

Pro-forma reporting format in terms of the SPECIFICATION FOR HIV/AIDS AWARENESS

Project Code:

065544

Payment Claim number:

Period covered by payment claim:

1. Distribution of condoms (briefly describe where and how condoms are distributed).

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2. Posters / pamphlets (briefly describe where posters were placed / how pamphlets were distributed).

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3. Voluntary testing (briefly describe the actions taken / information provided to promote testing).

4. Counselling, support and care (summarise information provided).

5. HIV awareness programme (briefly describe action).

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[illegible]

**For Contractor:**

Date: \_\_\_\_\_

Date: \_\_\_\_\_



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**DPW&I: DEPARTMENT OF EDUCATION: WATER AND SANITATION PROGRAME PHASE 03:**  
**ETHEKWINI REGION: KHANYISA SECONDARY SCHOOL**

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**PART C4. SITE INFORMATION**

**C4.1 SITE INFORMATION**  
**GCC FOR CONSTRUCTION WORKS (2 Edition of 2010)**

|                       |                                                                                                                                        |                      |               |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|
| <b>Project title:</b> | <b>DPW&amp;I: DEPARTMENT OF EDUCATION: WATER AND SANITATION<br/>PROGRAME PHASE 03: ETHEKWINI REGION: KHANYISA SECONDARY<br/>SCHOOL</b> |                      |               |
| <b>Tender No.</b>     | <b>ZNTD 06395 W</b>                                                                                                                    | <b>Project Code:</b> | <b>065544</b> |

**C4.1 Site Information**

|             |                                                                                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C4.1</b> | <b>GENERAL</b>                                                                                                                                                                                                                                    |
| (a)         | Site is located in a rural area with 3,5km of gravel roads leading up to the school from Montebelo Hospital. The area has no running water and the school uses water tanks, the contractor should have a plan to have water on site consistently. |
| <b>C4.2</b> | <b>GEOTECHNICAL INVESTIGATION REPORT</b>                                                                                                                                                                                                          |
| (a)         | Not applicable                                                                                                                                                                                                                                    |