

# PROVINCIAL ADMINISTRATION OF KWAZULU-NATAL DEPARTMENT OF PUBLIC WORKS



**KWAZULU-NATAL PROVINCE**

**PUBLIC WORKS**  
REPUBLIC OF SOUTH AFRICA

## **BILLS OF QUANTITIES**

with GCC for Construction Works - Second Edition 2010

### **CONTRACTUAL SECTION** **ONE VOLUME APPROACH**

**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL:  
COMPLETION OF ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND  
KITCHEN BLOCKS INCLUDING CONSTRUCTION OF NEW GUARD HOUSE, THREE  
TOILET BLOCKS, PARKING FACILITIES, PATHWAYS AND FENCING**

SCHOOL NAME	WIMS NO.	CONTRACT PERIOD	TYPE OF CONTRACT
NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL	042720	12 Calendar Months	GCC 2010

**Engineer/Principal Agent**

W Kassier Architects  
55 Glen Grey Drive, Waterfall  
Durban  
Durban  
3610  
071 888 1882 - Tel Number  
n/a - Fax Number  
mdingwa@sivago.co.za

**Quantity Surveyor**

ProQS Quantity Surveyors  
26 Ring Avenue  
Newcastle  
Durban  
2940  
082 460 3893 - Tel Number  
n/a - Fax Number  
rudi@quanto2000.co.za

**Employer:**

Head: Public Works  
KZN Department of Public Works  
Private Bag X 9041  
**PIETERMARITZBURG**  
3200  
Tel Number: 033 - 8971300  
Fax Number: 033 - 8971399

**Region:**

Regional Manager  
KZN Department of Public Works  
X9963  
**LADYSMITH**  
3370  
Tel Number: 036-638 8000  
Fax Number: 036-638 8099

**Tender No ZNTL 05813 W**  
**CIDB Grading 6GB or Higher**

**Project Code: 042720**  
**Document Date: 15 July 2026**  
**Contract Period: 12 Calendar Months**

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

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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, 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"**



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**THE CONTRACT**

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**C1 - AGREEMENT AND CONTRACT DATA**

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**FORM OF OFFER AND ACCEPTANCE**

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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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PATHWAYS AND FENCING**

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**C1.2 - CONTRACT DATA**

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<b>C 1.2 CONTRACT DATA:</b> with GCC for Construction Works - Second Edition 2010	
<b>CONTRACT DATA FOR:</b>	
<b>NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES, PATHWAYS AND FENCING</b>	
<b>Tender no: ZNTL 05813 W</b>	
	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> The following contract specific data are applicable to this contract:
	<b>CONTRACT VARIABLES</b>  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 agreement.  Spaces requiring information must be filled in, shown as 'not applicable' or deleted but not left blank. 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. <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:	
PRE-TENDER INFORMATION	
CONTRACTING AND OTHER PARTIES	
[1.1.1.15]	<b>Employer:</b> <b>Head: Public Works (KZN Department of Public Works: Province of KwaZulu-Natal)</b>  Postal address: <b>Private Bag X 9041</b> <b>PIETERMARITZBURG</b> <b>3200</b>  Tel: <b>033 - 8971399</b> Fax: <b>033 - 8971300</b>
[1.2.1.2]	Physical address: <b>10 Prince Alfred Street</b> <b>PIETERMARITZBURG</b> <b>3200</b>
[1.1.1.16]	<b>Employers Agent 1</b> <b>W Kassier Architects</b>  <b>Agent's service:</b> <b>Architect</b>  Postal address: <b>55 Glen Grey Drive, Waterfall</b> <b>Durban</b> <b>3610</b>  Tel: <b>071 555 1882</b> Fax: <b>n/a</b>
	<b>Employers Agent 2</b> <b>ProQS Quantity Surveyors</b>  <b>Agent's service:</b> <b>Quantity Surveyor</b>  Postal address: <b>26 Ring Avenue</b> <b>Newcastle</b> <b>2940</b>  Tel: <b>082 460 3893</b> Fax: <b>n/a</b>
	<b>Employers Agent 3</b> <b>Isimo Engineers</b>  <b>Agent's service:</b> <b>Structural Engineer</b>  Postal address: <b>P.O Box 3078</b> <b>Newcastle</b> <b>2940</b>  Tel: <b>034 - 983 2752</b> Fax: <b>034 - 983 2750</b>
	<b>Employers Agent 4</b> <b>Ilifa Africa Engineers</b>  <b>Agent's service:</b> <b>Civil Engineer</b>  Postal address: <b>P.O Box 467</b> <b>Vryheid</b> <b>3100</b>  Tel: <b>034 - 312 6464</b> Fax: <b>034 - 312 2429</b>

Tender no: ZNTL 05813 W	
<b>Employers Agent 5</b> <b>Takusa Consulting and Services</b>  Agent's service: <b>Electrical Engineer</b>  Postal address: <b>Private Bag X43</b> <b>Sunninghill</b> <b>2157</b>  Tel: <b>034 - 312 3648</b> Fax: <b>0866 - 592 099</b>	
<b>PART 1: DATA PROVIDED BY THE EMPLOYER</b>	
[1.1.1.13]	<b>Defects Liability Period</b> The defects liability period is: <b>A time measured from the date of the Certificate of Completion.</b> 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: <input type="text" value="5 years after the Final Approval Certificate"/>
<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 <input type="text" value="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 <input type="text" value="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 <input type="text" value="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 <input type="text" value="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 <input type="text" value="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 <input type="text" value="The Contractor shall deliver his Priced Bill of Quantity within 14 calendar days after notice from the Employer, prior to the Commencement Date."/>
	Programme <input type="text" value="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 <input type="text"/>
[5.3.2]	The time to submit the documentation required before commencement with Works execution is: <input type="text" value="14"/> calendar days
<b>Non-Working days</b>	
[5.8.1]	Non-Working days <b>Sundays</b>
	Special non- working days <b>All Nationally Recognized Public Holidays and the year end break</b>
[5.8.1]	First Year end break - commences <b>15 Dec 26</b> ends on <b>11 Jan 27</b>
	Second Year end break - commences <b>N/A</b> ends on <b>N/A</b>
	Third Year end break - commences <b>N/A</b> ends on <b>N/A</b>
	Fourth Year end break - commences <b>N/A</b> ends on <b>N/A</b>
[3.1.3]	<b>Engineer/Principal Agent to consult with Employer</b> 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.
[6.2.1]	<b>Security</b> 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.	
The <b>Agreement comes into effect</b> on the date when; The tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any)  The agreement ("this document") consists of; 1. Agreement and Conditions of Contract. 2. Form of Offer and Acceptance. 3. Contract Data. 4. Scope of Works. 5. Site Information. 6. Drawings & documents referred to in the 1 to 4 above.  (See Form of Offer and Acceptance)	

[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 contractor 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 employer.													
[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 State organ only Where so :														
[6.10.6.2]	<p>1) Interest rate legislation:</p> <p>(a) in respect of interest owed by the employer, 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 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</p> <p>2) Lateral support insurance to be effected by the contractor: <table border="1" style="float: right;"><tr><td>Yes</td><td>No</td><td>X</td></tr></table></p> <p>3) Payment will be made for materials and goods <table border="1" style="float: right;"><tr><td>Yes</td><td>X</td><td>No</td></tr></table></p> <p>4) Dispute resolution by litigation <table border="1" style="float: right;"><tr><td>Yes</td><td>No</td><td>X</td></tr></table></p> <p>5) Extended defects liability period applicable to the following elements: <table border="1" style="float: right;"><tr><td colspan="3" style="text-align: center;"><i>Electrical, Mechanical and Civil work</i></td></tr></table></p>		Yes	No	X	Yes	X	No	Yes	No	X	<i>Electrical, Mechanical and Civil work</i>		
Yes	No	X												
Yes	X	No												
Yes	No	X												
<i>Electrical, Mechanical and Civil work</i>														
[8.6.1.1.2]	The Value of material, supplied by the Employer, and not included in the Contract Price, is:	<b>R0,00</b>												
[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: <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>													
[5.5.1]	For the works as a whole: The whole of the works shall be completed within:	<b>12 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).												
[5.13.1]	The date for practical completion shall be	<b>To be determined</b>												
[5.13.1]	The penalty per calendar day shall be :	<b>0.04% of the Contract Price, rounded to the nearest R10</b>												
[5.5.1]	<b>For the works in sections:</b> <b>The date for practical completion from the commencement date and the penalty per calendar day:</b>													
[5.5.1]	Portion 1:	<b>N/A</b>												
[5.13.1]	<b>0.04% of the Contract Price, rounded to the nearest R10</b>													
[5.5.1]	Portion 2:	<b>N/A</b>												
[5.13.1]	<b>0.04% of the Contract Price, rounded to the nearest R10</b>													
[5.5.1]	Portion 3:	<b>N/A</b>												
[5.13.1]	<b>0.04% of the Contract Price, rounded to the nearest R10</b>													
[5.5.1]	Portion 4:	<b>N/A</b>												
[5.13.1]	<b>0.04% of the Contract Price, rounded to the nearest R10</b>													
[5.5.1]	Portion 5:	<b>N/A</b>												
[5.13.1]	<b>0.04% of the Contract Price, rounded to the nearest R10</b>													
[5.5.1]	Portion 6:	<b>N/A</b>												
[5.13.1]	<b>0.04% of the Contract Price, rounded to the nearest R10</b>													
[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:	<b>80,00%</b>												
[6.10.3]	Percentage retention on amounts due to contractor is:	<b>The Percentage retention is nil. 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.</b>												
	Maximum retention is:	<b>5%</b> of the Contract Price												
[6.8.1]	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.													

[6.8.2] [6.8.3]	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] [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]	<p><b>The following clause must be added to clause 5.14.5:</b></p> <p>[5.14.5.6] The employers agent shall submit the final account within 3 calendar months to the principal agent.</p>
[10.5] [10.5.3] [10.9.1]	<p>The determinations of disputes shall be by ARBITRATION ONLY.</p> <p>The number of Adjudication Board Members to be appointed is: <span style="border: 1px solid black; padding: 2px;">One</span></p> <p>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."</p>
	<p><b>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:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> </ol> <p><b>Alternative Indices: Not Applicable</b></p> <p>Details of changes made to the General Conditions of Contract for construction works (2010) Second Edition</p>
[1.1]	<p><b>Clause</b></p> <p>[1.1.1.5] <b>COMMENCEMENT DATE</b> – 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.</p> <p>[5.12.2.2] <b>ABNORMAL CLIMATIC CONDITIONS</b> - 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.</p> <p>[6.2.1] <b>CONSTRUCTION GUARANTEE</b> – 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.</p> <p><b>CONSTRUCTION PERIOD</b> – 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.</p> <p><b>CORRUPT PRACTICE</b> – 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.</p> <p><b>FINAL ACCOUNT</b> - The document prepared by the principal agent, which reflects the contract value of the works at final approval or termination.</p> <p><b>FRAUDULENT PRACTICE</b> – 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.</p>
	<p><b>INTEREST</b> – 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:</p> <ol style="list-style-type: none"> <li>(a) in respect of interest owed by the employer, 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</li> <li>(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</li> </ol>
[1.1.1.16]	<p><b>ENGINEER/PRINCIPAL AGENT</b> – means the person or entity appointed by the Employer and named in the Contract Data as the Engineer /Principal Agent to act as agent of the Employer. In the event of an Engineer/Principal Agent not being appointed, then all the duties and obligations of an Engineer/Principal Agent as detailed in the Contract shall be fulfilled by a representative of the Employer as named in the Contract Data. (Hereafter referred to as Engineer)</p> <p>[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.</p>
[4.4.1]	Add the following to the clause 4.4.1: "The Contract shall only use subcontractors who are duly registered with the CIDB and who has an ACTIVE 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 Guarantee 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> <ol style="list-style-type: none"> <li>5.12.3.1 Failure to give possession of the site to the contractor.</li> <li>5.12.3.2 Making good physical loss and repairing damage to the works where the contractor is not at risk.</li> <li>5.12.3.3 Contract instructions not occasioned by default by the contractor.</li> <li>5.12.3.4 Failure to issue construction information timeously or the late issue of a contract instruction following a request from the contractor.</li> <li>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.</li> <li>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.</li> <li>5.12.3.7 Insolvency of a nominated subcontractor.</li> </ol>

- 5.12.3.8 A direct contractor.  
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.  
5.12.3.10 The execution of additional work for which the quantity included in the bills of quantities is not sufficiently accurate.  
5.12.3.11 Late or failure to supply materials and goods for which the employer is responsible.  
5.12.3.12 Suspension of the works."

[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:  
5.16.4.1. The performance Guarantee (if any) shall be returned within 14 days to the guarantor in terms of Clause 7."

[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 guarantee.

[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 Engineer requiring the specific approval of the Employer BEFORE execution of any part of these duties are as follows:

- 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 Engineer, together with the Engineer's recommendations, to the Employer for determination. Omit "Engineer" in clause 42.2 and replace with "Employer".
- Drawings, instructions or communications of any kind requiring variations of the works and involving EXTRA's shall NOT be given effect by the Contractor 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 Employer.
- Insurance policies to be approved by the Employer within 21 days of the date of the Commencement of the Works.
- Any notice of disagreement raised by the Contractor or written Dispute Notice given by the Contractor to the Engineer shall be submitted by the Engineer, together with the Engineer's recommendations, to the Employer for determination.
- The issue of the certificate of practical completion, certificate of completion and the final approval certificate shall be signed and submitted by the Engineer, to the Employer for final approval and signature. The certificates shall not be considered as officially issued until signed by the Employer.

#### MANAGING PROJECT DURATION

- 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.
- Activity-and total float shall belong to the Employer.
- 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.

#### INCLEMENT WEATHER AND CLAIMS FOR DELAYS IN PERFORMANCE

- 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.
- 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:
  - The criteria to be used for WORK stoppages shall be for safety hazards or poor quality of work.
  - 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.

- 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.
- No claims for stoppages less than 2(two) hours per day shall be considered.
- 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.
- All claims shall be submitted in writing to the Principal Agent within one working day of the actual stoppage.
- 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.
- 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.
- 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:	ZNTL 05813 W	Part 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR:					
<b>POST-TENDER INFORMATION</b>							
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.							
<b>1 CONTRACT DETAILS</b>							
[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]						
	.....						
	<b>Payment Of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)</b>						
	The preliminaries amounts shall be paid in terms of:	<table border="1"> <tr> <td>*Alternative A</td> <td>Yes</td> </tr> <tr> <td>**Alternative B</td> <td>N/A</td> </tr> </table>	*Alternative A	Yes	**Alternative B	N/A	
*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.						
	<b>Adjustment of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)</b>						
<b>Alternative A</b>	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:-						
	<p>- An amount which shall not be varied.</p> <p>- An amount varied in proportion to the contract value as compared to the Contract Sum.</p> <p>- 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.</p> <p>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</p> <p>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:</p> <p>10% of the amount shall not be varied</p> <p>15% varied in proportion of the Contract Value to the Contract Sum</p> <p>75% varied in proportion to the revised Construction period compared with the initial Construction Period</p> <p><b>Sectional Completion : Subdivision of Preliminaries Costs</b></p> <p>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.</p> <p>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.</p>						
	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.						
		<input type="checkbox"/> YES / no					
	or						
<b>Alternative B</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.						
		<input type="checkbox"/> NO / no					
<b>The contractor is informed that only option 'A' shall apply</b>							

**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   | <input type="checkbox"/> |
| (ii) bank or insurance Performance Guarantee of 10 % of the Contract Price   | <input type="checkbox"/> |
| (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)               | <input type="checkbox"/> |
| (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) | <input type="checkbox"/> |

**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 warrants

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 warrants

Capacity of signatory \_\_\_\_\_ as Witness.



**KWAZULU-NATAL PROVINCE**

**PUBLIC WORKS**  
REPUBLIC OF SOUTH AFRICA

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**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES, PATHWAYS AND FENCING**

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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 ZNTL 05813 W**

**Project Code 042720**

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:

**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL:  
COMPLETION OF ADMINISTRATION, MULTI-PURPOSE CLASSROOM  
AND KITCHEN BLOCKS INCLUDING CONSTRUCTION OF NEW GUARD  
HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES, PATHWAYS  
AND FENCING**

"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**

**PUBLIC WORKS**  
REPUBLIC OF SOUTH AFRICA

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**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF  
ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING  
CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES,  
PATHWAYS AND FENCING**

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**PART C2 - PRICING DATA**

I

**C2.1 PRICING INSTRUCTIONS**  
**GCC FOR CONSTRUCTION WORKS (Second Edition 2010)**

<b>Project title:</b>	<b>NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES, PATHWAYS AND FENCING</b>		
<b>Tender no:</b>	<b>ZNTL 05813 W</b>	<b>Project Code:</b>	<b>042720</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 REQUIREMENTS</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>

<b>10</b>	<p><b>BROAD BASED BLACK ECONOMIC EMPOWERMENT</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> </ol>
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<b>11</b>	<p><b>REGISTRATION ON THE CENTRAL SUPPLIERS DATABASE</b></p> <ol style="list-style-type: none"> <li>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 varification functionality of key supplier information.</li> <li>2. Prospective suppliers will be able to self - register on the CSD website: <a href="http://www.csd.gov.za">www.csd.gov.za</a></li> <li>3. Once the supplier information has been varified 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.</li> <li>4. Suppliers can provide their CSD supplier number and unique security code to organs of state to view their varified CSD information.</li> <li>5. Tenderers are required to fill in clearly, legibly, in bold print and black ink their CSD supplier number in the space hereunder:</li> </ol>
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<b>Name of Supplier</b>	
<b>Central Supplier Database (CSD) Supplier Number:</b>	

12	<p><b>TAX CLEARANCE REQUIREMENTS</b></p> <p>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.</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3 In tenders where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Compliance Status (TCS) PIN.</li> <li>4 Application for Tax Compliance Status (TCS) PIN can be done via e-filing at any SARS branch office nationally or on the website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</li> <li>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 <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</li> <li>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 <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</li> </ol>		
	<table border="1"> <tr> <td data-bbox="167 974 534 1041"><b>Security PIN Number</b></td> <td data-bbox="534 974 1560 1041"></td> </tr> </table>	<b>Security PIN Number</b>	
<b>Security PIN Number</b>			
	<table border="1"> <tr> <td data-bbox="167 1041 534 1108"><b>Company / Entity Tax Reference Number</b></td> <td data-bbox="534 1041 1560 1108"></td> </tr> </table>	<b>Company / Entity Tax Reference Number</b>	
<b>Company / Entity Tax Reference Number</b>			
13	<p><b>BILLS OF QUANTITIES/LUMP SUM DOCUMENT</b></p> <p>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.</p>		
14	<p><b>VALUE ADDED TAX</b></p> <p>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.</p>		
15	<p><b>FIXED PRICE CONTRACT</b></p> <p>Tenderers are to take note that the contract price adjustments are applicable to this contract.</p>		



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

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**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF  
ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING  
CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES,  
PATHWAYS AND FENCING**

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

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**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF  
 ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING  
 CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES,  
 PATHWAYS AND FENCING**

**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)  F:..... V:..... T:.....	Item			
A2	Basis of Contract (clause 2)  F:..... V:..... T:.....	Item			
A3	Engineer (clause 3)  F:..... V:..... T:.....	Item			
A4	Contractor's General Obligation (clause 4)  F:..... V:..... T:.....	Item			
A5	Time and Related Matters (clause 5) - As referred to in the Contract Data under Special Condition of Contract. 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.  F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

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

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

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

		UNIT	QUANTITY	RATE	AMOUNT
C8	Permits - CLAUSE 5.9 F:..... V:..... T:.....	Item			
C9	Proof of compliance with the law - CLAUSE 5.10 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 F:..... V:..... T:.....	Item			
D2	The responsibility strategy assigned to the contractor for the works CLAUSE 4.2.1 F:..... V:..... T:.....	Item			
D3	The planning, programme and method statements - CLAUSE 4.3 F:..... V:..... T:.....	Item			
D4	Samples of materials, workmanship and finishes - CLAUSE 4.12.1 F:..... V:..... T:.....	Item			
D5	Fabrication drawings that the contractor is to provide and deliver to the employer - CLAUSE 4.12.2 F:..... V:..... T:.....	Item			
D6	Office for the foreman CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D7	Telephone - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D8	Office for inspector of works - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D9	Telephone in office for inspector of works - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D10	Sheds - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
D11	Provision and erection of signboards - CLAUSE 4.14.6 F:..... V:..... T:.....	Item			
D12	Termination, diversion or maintenance of existing services - CLAUSE4.17.1 F:..... V:..... T:.....	Item			
D13	Services which are known to exist - CLAUSE 4.17.3 F:..... V:..... T:.....	Item			
D14	Detection apparatus - CLAUSE 4.17.4 F:..... V:..... T:.....	Item			
D15	Additional health and safety requirements - CLAUSE 4.18 F:..... V:..... T:.....	Item			
<b>SECTION E: SPECIFIC PRELIMINARIES</b>					
<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>  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.  F:..... V:..... T:.....	Item			
E2	<b>OVERTIME</b>  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.  F:..... V:..... T:.....	Item			
E3	<b>AS BUILT DRAWINGS</b>  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.  F:..... V:..... T:.....	Item			
Carried forward to collection				R	

SECTION E: SPECIFIC PRELIMINARIES		UNIT	QUANTITY	RATE	AMOUNT
E4	<p><b>SITE INSTRUCTIONS</b></p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
E5	<p><b>LABOUR RECORD</b></p> <p>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.</p> <p>F:..... V:..... T:.....</p> <p><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></p>	Item			
E6	<p><b>PLANT RECORD</b></p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
E7	<p><b>NON CESSION OF MONIES</b></p> <p>The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract.</p> <p>F:..... V:..... T:.....</p>	Item			
E8	<p><b>SECTIONAL COMPLETION</b></p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
E9	<p><b>LOCAL LABOUR</b></p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
E10	<p><b>IMPORT PERMITS AND DUTIES</b></p> <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	<p><b>CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)</b></p> <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	<p><b>EPWP CONDITIONS AND SPECIFICATIONS</b></p> <p><b>12.1 EMPLOYMENT TARGETS</b></p> <p><b>E12.1 a Employment Targets</b></p> <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 = ..... [Contractor to fill in an estimated number]</p> <p>F:..... V:..... T:.....</p> <p><b>E12.1 b Employment requirements</b></p> <p>Tenderers are advised that this contract will be subject to the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment.</p> <p>Tenderers must allow for any costs for the employment of unskilled labour as per the requirements of the EPWP program;</p> <p>1. 60% of unskilled labour to be women                  2. 55% of unskilled labour to be youth aged between 18 and 35 years                  3. 2% of unskilled labour to be people living with disability                  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.</p> <p>F:..... V:..... T:.....</p>	Item			
	Carried forward to collection			R	

	UNIT	QUANTITY	RATE	AMOUNT
<p><b>E12.1 c Labour rate and payment intervals</b>                      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.                      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.                      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>  <b>E12.2 a Labour Intensive Construction (LIC) method</b>                      On site there must a person(s) having competency in managing and implementing LIC methods.                      *Foreman @ NQF Level 4 the Unit Standard on Implementing LIC methods on site.                      *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>                      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>                      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> <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			
Carried forward to collection			R	

	UNIT	QUANTITY	RATE	AMOUNT
<p><b>E12.4 EPWP REPORTING as per EPWP DATA FORM</b>                      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 &amp; Public Works with a written records, as per EPWP data form; which will be reflecting, beneficiaries full name &amp; 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:                      1. EPWP monthly data collection form                      2. Worker monthly payment upload                      3. Worker monthly proof of payment i.e                      3.1 Acknowledgement of receipt of payment or                      3.2 Payslips                      3.3 Bank statement highlighted the workers paid                      4. Worker monthly training form                      5. Monthly attendance register                      6. Certified copies of ID's (once off)                      7. ID size photos (once off)                      8. Proof of UIF                      9. Proof of COIDA</p> <p>F:..... V:..... T:.....</p>	Item			
<p><b>E12.5 EPWP PROMOTION</b>  <b>12.5.1 EPWP signage board</b>                      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.</p> <p>F:..... V:..... T:.....</p>	Item			
<p><b>12.5.2 Branding of labour apparel</b>                      Contractor &amp; 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.</p> <p>The contractor is then advised to price for both item 17.5.1 and 17.5.2</p> <p>F:..... V:..... T:.....</p>	Item			
<p><b>E12.6 COMMUNITY LIAISON OFFICER (CLO)</b>  <b>UTILISATION OF A COMMUNITY LIAISON OFFICER</b>                      In addition to the requirements of Clause E9, contained in this document; 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>				
Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	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>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> <li>8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.</li> <li>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.</li> <li>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.</li> </ol> <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>                      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>	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	<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>                      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> <p><u>TENDERER'S TO NOTE CONDITIONS</u></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>	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	<p><b>CO-ORDINATION</b>                      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>                      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>                      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> <p><b>E12.10 EPWP SCOPE of WORK</b>  <b>Note:</b>                      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>	Item			
		Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
<p><b>Note:</b>                      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>                      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>                      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>                      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> <p><b>E13 HIV/AIDS AWARENESS</b>                      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)</p> <p>E13.1 Provide and maintain a condom dispenser in terms of Clause 5.1a)                      F:..... V:..... T:.....</p> <p>E13.2 Provide and maintain HIV/AIDS awareness posters terms of Clause 5.1b)                      F:..... V:..... T:.....</p>		<p>Item</p> <p>Item</p> <p>Item</p>			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E13.3	HIV /Aids Awareness Programme on Site for not less than 90% of workers inclusive of all direct and indirect costs;  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)  F:..... V:..... T:.....	Item			
E13.4	Arrange for workers to attend the HIV Awareness Programme in terms of Clause 5.2.1b)  F:..... V:..... T:.....	Item			
E13.5	<b>Reporting</b>  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).  F:..... V:..... T:..... <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> 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"  F:..... V:..... T:.....	Item			
E15	<b>NOTICE BOARD, SITE OFFICE, ETC.</b> 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.  F:..... V:..... T:.....	Item			
E16	<b>IMPORTED MATERIALS AND EQUIPMENT</b> 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. ( <i>Refer to T2.14 - Schedule of Imported Materials and Equipment .</i> )  F:..... V:..... T:.....	Item			
E17	<b>CONTRACT DOCUMENTS</b> 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.  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.  F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E18	<p><b>GENERAL PREAMBLES</b>                      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.</p> <p>F:..... V:..... T:.....</p>	Item			
E19	<p><b>TRADE NAMES</b>                      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.</p> <p>F:..... V:..... T:.....</p>	Item			
E20	<p><b>EXISTING PREMISES OCCUPIED</b>                      Refer to Scope of Works Part C3 of this Tender Document for information on the occupation of existing buildings.</p> <p>F:..... V:..... T:.....</p>	Item			
E21	<p><b>INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT</b>                      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.</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
E22	<p><b>VIEWING THE SITE IN SECURITY AREAS</b>                      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.</p> <p>F:..... V:..... T:.....</p>	Item			
E23	<p><b>COMMENCEMENT OF WORKS IN SECURITY AREAS</b>                      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.</p> <p>F:..... V:..... T:.....</p>	Item			
E24	<p><b>ENTRANCE PERMITS TO SECURITY AREAS</b>                      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.</p> <p>F:..... V:..... T:.....</p>	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
E25	<p><b>SECURITY CHECK OF PERSONNEL</b>            The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified.</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
E26	<p><b>PROHIBITION ON TAKING PHOTOGRAPHS</b>            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.</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item			
E27	<p><b>Management of Water</b> <span style="float: right;">Water for</span>            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.</p>				
Carried forward to collection				R	

**SECTION 1**

**SUMMARY – PRELIMINARY & GENERAL**

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	2	R	
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	7	R	
	8	R	
	9	R	
	10	R	
	11	R	
	12	R	
	13	R	
	14	R	
	15	R	
	16	R	
Carried forward to Final Summary		R	

Section No. 1  
 Preliminary & General  
 Summary



**KWAZULU-NATAL PROVINCE**

**PUBLIC WORKS**  
REPUBLIC OF SOUTH AFRICA

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**NQUTHU (KWAZULU NATAL) - MASHESHELENG PRIMARY SCHOOL: COMPLETION OF  
ADMINISTRATION, MULTI-PURPOSE CLASSROOM AND KITCHEN BLOCKS INCLUDING  
CONSTRUCTION OF NEW GUARD HOUSE, THREE TOILET BLOCKS, PARKING FACILITIES,  
PATHWAYS AND FENCING**

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**PART C2.3 BILL OF QUANTITIES**

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 2</u></b>			
	<b><u>RENOVATIONS (PROVISIONAL)</u></b>			
	<b><u>Items marked (LI) indicate Labour Intensive</u></b>			
	NOTE : Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No 102 for CPAP			
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	<b><u>Concrete</u></b>			
1	Break up and remove 100mm thick mesh reinforced surface bed A : 0      B : 67      C : 41      D : 0 E : 0	m2	108	
	<b><u>Brick work</u></b>			
2	Break down and remove existing one brick wall(LI) A : 0      B : 0      C : 10      D : 0 E : 0	m2	10	
3	Break into brickwork for insert and including 114 x 75mm precast concrete lintol 922mm long, including bedding lintol both sides in 3:1 cement mortar(LI) A : 0      B : 0      C : 1      D : 0 E : 0	m	1	
4	Break off and remove 230mm wide brick on edge face brick coping and one layer of brick work and prepare to receive new (elsewhere) (LI) A : 0      B : 44      C : 18      D : 0 E : 0	m	62	
5	Cut construction joint between brickwork and concrete beam and fill with 20mm deep polysulphide(LI) A : 6      B : 0      C : 0      D : 0 E : 0	m	6	
6	Make good to face bricks around existing plug boxes(LI) A : 0      B : 5      C : 0      D : 0 E : 0	m	5	
	<b>Carried to Collection</b>			
	Bill No. 2 Renovations (Provisional)			R

7	Break into existing half brick wall to lower cill of 2m wide opening by 6 courses and including lower lintol hight by 6 corses including forming lintol over (LI) A : 1      B : 0      C : 0      D : 0 E : 0	No	1	
<b><u>Roof sheeting</u></b>				
8	Take down and remove existing roof sheets and prepare to receive new sheeting(LI) A : 0      B : 0      C : 0      D : 0 E : 1136	m2	1 136	
9	Take off and remove existing fibre cement fascias or barge boards, not exceeding 300mm wide, from roof timber (L1) A : 87      B : 145      C : 38      D : 14 E : 28	m	312	
<b><u>Hack off plaster</u></b>				
10	Hack off existing plaster by hand on walls and prepare to receive new(LI) A : 0      B : 0      C : 0      D : 0 E : 313	m2	313	
<b>Carried to Collection</b>				
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Bill No. 2  
Renovations (Provisional)

Bill No. 2  
 Renovations (Provisional)

**COLLECTION**

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**Amount**

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Bill No. 2  
 Renovations (Provisional)

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 4</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Cost of tests</u></b>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect.			
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>Class Mpa 25/19 mm concrete placed by hand</u></b>			
1	Table tops (LI) A : 0      B : 0      C : 1      D : 0 E : 0	m3	1	
2	Surface beds cast on waterproofing (LI) A : 0      B : 7      C : 4      D : 0 E : 0	m3	11	
	<b><u>Strike and cure top surface of concrete to slabs, surface beds, etc. by hand</u></b>			
3	Surface beds, slabs, etc. including wood float finish (LI) A : 0      B : 67      C : 38      D : 0 E : 0	m2	105	
	<b><u>CONCRETE TESTS</u></b>			
4	Concrete tests as described A : 1.00      B : 0.00      C : 0.00      D : 0.00 E : 0.00		Item	
	<b><u>ROUGH FORMWORK</u></b>			
	<b>Carried to Collection</b>			R
	Bill No. 3 Concrete, Formwork and Reinforcement			

**(HAYLETT FORMULA WORK GROUP NO. 111)**

**Rough formwork to**

5	Soffits of slabs	m2	8
	A : 8      B : 0      C : 0      D : 0		
	E : 0		

6	Soffit of table tops	m2	6
	A : 0      B : 0      C : 6      D : 0		
	E : 0		

**Smooth formwork to**

7	Edge of 150mm thick slab	m	18
	A : 0      B : 0      C : 13      D : 5		
	E : 0		

**REINFORCEMENT**

**(HAYLETT FORMULA WORK GROUP NO. 114)**

**Fabric reinforcement**

8	Type 245 fabric reinforcement in concrete surface beds, slabs, etc(LI)	m2	105
	A : 0      B : 67      C : 38      D : 0		
	E : 0		

**Carried to Collection**

Bill No. 3  
 Concrete, Formwork and Reinforcement

R

Bill No. 3

Concrete, Formwork and Reinforcement

**COLLECTION**

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**Amount**

**Carried to Summary**

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Bill No. 3

Concrete, Formwork and Reinforcement

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 6</u></b>			
	<b><u>MASONRY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>BRICKWORK</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP			
	<b><u>Sizes in descriptions</u></b>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<b><u>Face bricks</u></b>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<b><u>FACE BRICKWORK</u></b>			
	<b><u>Corobrik Roan Satin face bricks pointed with halfround ruled horizontal and vertical joints</u></b>			
1	Extra over brickwork for face brickwork in stretcher bond including two coats bricxeal bag washed to inner face A : 0      B : 0      C : 16      D : 0 E : 0	m2	16	
2	Half brick face brick walls in beam filling, including cutting around roof timber A : 0      B : 0      C : 0      D : 1 E : 0	m2	1	
3	Face brick, brick-on-edge coping pointed on side and 230mm wide top A : 0      B : 44      C : 0      D : 0 E : 0	m	44	
	<b><u>Sundries</u></b>			
4	Fair cutting and waste to facings around not exceeding 100mm pipes A : 15      B : 6      C : 6      D : 0 E : 0	No	27	
	<b>Carried to Collection</b>			R
	Bill No. 4 Masonry			

**NUTEC FIBRE-CEMENT WINDOW CILLS**

**Nutec Fibre cement natural grey sills in single lengths bedded in 1:5 cement mortar including metal fixing lugs etc**

5	15 x 150mm Wide cills set flat and slightly projecting in single lengths to suit width of windows	m	110
	A : 32      B : 73      C : 3      D : 3		
	E : 0		

**Carried to Collection**

Bill No. 4  
 Masonry

R

Bill No. 4

Masonry

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

25

26

**Amount**

**Carried to Summary**

R

Bill No. 4  
 Masonry



Item No	BILL NO 8	Quantity	Rate	Amount
	<b><u>ROOF COVERINGS, ETC.</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP			
	<b><u>0.58mm Continuous S Profile Chromadeck Industrial prepainted one side roof sheeting to match the existing and fixing with Leak King screws, Mastic sealant to side laps all strictly in accordance with the manufacturers instructions, including all straight cutting and waste, fasteners, clips, screws, nails, etc.</u></b>			
1	Roof sheeting fixed to timber purlins (elsewhere) A : 0      B : 0      C : 0      D : 0 E : 1136	m2	1 136	
2	Standard ridge capping A : 0      B : 0      C : 0      D : 0 E : 33	m	33	
3	Poly closers A : 0      B : 0      C : 0      D : 0 E : 66	m	66	
	<b>Carried to Summary</b>			R
	Bill No. 6 Roof Coverings			

Item  
No

Quantity Rate Amount

**BILL NO 9**

**CARPENTRY AND JOINERY**

NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 126 for CPAP

**SUPPLEMENTARY PREAMBLES**

**Descriptions:**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres

Items described as as "bolted" the bolts have been given elsewhere

**Particle board:**

Particle board shall comply with the following specifications:

- a) SANS 1300 Particle board: exterior and flooring type
- b) SANS 1301 Particle board: interior type

**Joinery:**

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

Descriptions of hardwood joinery shall be deemed to include holes for screws and bolts.

**Decorative laminate finish:**

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

**ROOFS, ETC.**

**Carried to Collection**

R

Bill No. 7  
 Carpentry and Joinery

<b><u>Sawn softwood</u></b>				
1	50 x 76mm Purlins A : 0      B : 0      C : 0      D : 0 E : 694	m	694	
<b><u>Wrought softwood</u></b>				
2	50 x 76mm Trimmers A : 23      B : 21      C : 18      D : 5 E : 0	m	67	
3	50 x 76mm Purlins A : 0      B : 0      C : 0      D : 0 E : 289	m	289	
<b><u>Sundries</u></b>				
4	Two coats creosote on sawn timbers (LI) A : 202      B : 77      C : 35      D : 5 E : 0	m2	319	
5	Teco Hurricane clips A : 0      B : 0      C : 0      D : 0 E : 1056	No	1 056	
<b><u>EAVES, VERGES, ETC.</u></b>				
6	12 x 225mm Fascias including galvanised steel H-profile jointing strips and fixing to timber with 50mm brass screws A : 64      B : 125      C : 20      D : 8 E : 28	m	245	
7	15 x 80 x 200mm Barge boards including galvanised steel H-profile jointing strips and fixing to timber with 50mm brass screws A : 23      B : 21      C : 18      D : 5 E : 0	m	67	
<b><u>SKIRTINGS, RAILS, ETC</u></b>				
<b><u>Wrought hardwood</u></b>				
8	16 x 69mm Sirting nailed to walls including 19mm quadrant bead planted on at junction with floor A : 245      B : 275      C : 0      D : 8 E : 0	m	527	
<b>Carried to Collection</b>				
Bill No. 7 Carpentry and Joinery				R

9	12 x 44mm Grounds plugged A : 8      B : 0      C : 0      D : 0 E : 0	m	8
10	12 x 25mm Window beads planted on A : 13      B : 0      C : 0      D : 0 E : 0	m	13
11	32 x 70mm Rebated stiles planted on A : 5      B : 0      C : 0      D : 0 E : 0	m	5
12	32 x 70mm Rebated frame plugged A : 4      B : 0      C : 0      D : 0 E : 0	m	4
13	32 x 146mm Rebated frame plugged A : 4      B : 0      C : 0      D : 0 E : 0	m	4
<b><u>DOORS ETC.</u></b>			
<b><u>Semi Solid flush doors with veneer suitable for painting and concealed edging strips</u></b>			
14	40mm Door 762 x 1823mm high A : 4      B : 0      C : 0      D : 0 E : 0	No	4
15	40mm Door 813 x 2032mm high A : 14      B : 7      C : 0      D : 0 E : 7	No	28
<b><u>Wrought Meranti doors hung to steel frames</u></b>			
16	44 mm Framed batten door 813 x 2032mm high of 44 x 110 mm top rail and stiles, 22 x 150 mm middle ledge and braces and 22 x 225 mm bottom rail filled in with 22 mm V-jointed one side boarding, including 40 x 70mm rebated splayed and grooved weather board. A : 0      B : 10      C : 5      D : 1 E : 7	No	23

Carried to Collection

Bill No. 7  
 Carpentry and Joinery

R

17	44 mm Framed batten double door 1613 x 2032mm high each leaf formed of 44 x 110 mm top rail and stiles, 22 x 150 mm middle ledge and braces and 22 x 225 mm bottom rail filled in with 22 mm V-jointed one side boarding and covered on other side with 3 mm tempered hardboard with veneer to match door let into and including rebates all round, 44 x 70mm rebated, splayed and grooved weather board. A : 2      B : 0      C : 0      D : 0 E : 0	No	2
<b><u>PINNING BOARDS</u></b>			
18	10mm Soft board pinning board 2000 x 1200mm high overall with 22 x 50mm rebated hardwood surround all glued to plasterd wall. A : 4      B : 1      C : 0      D : 0 E : 0	No	5
19	10mm Soft board pinning board 2400 x 1200mm high overall with 22 x 50mm rebated hardwood surround all glued to plasterd wall. A : 0      B : 2      C : 0      D : 0 E : 0	No	2
20	10mm Soft board pinning board 3600 x 1200mm high overall with 22 x 50mm rebated hardwood surround all glued to plasterd wall. A : 1      B : 1      C : 0      D : 0 E : 0	No	2
21	10mm Soft board pinning board 4800 x 1200mm high overall with 22 x 50mm rebated hardwood surround all glued to plastered wall. A : 0      B : 3      C : 0      D : 0 E : 7	No	10

**FITTINGS**

**WORKTOPS, CUPBOARDS AND COUNTERS, ETC.**

Carried to Collection

Bill No. 7  
 Carpentry and Joinery

R

General:

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been measured separately. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass ironmongery, metalwork, paint or varnish finish, etc.

The reverance given in the descriptions are to the respective types of fittings detailed on the Architect's drawings annexed to these Bills of Quantities for tender purposes.

Unless otherwise indicated on the attached drawings, material to be used for the following joinery fittings will be **LAMINATED SALIGNA** of various thicknesses.

**All joinery fittings to be supplied with the following Drawers:**

Runners: BLUM drawer slides  
Handles: UNION AL5516AS  
Lock: UNION Drawer Lock (Code: 457)

**Cupboard doors:**

Hinges: BLUM self closing hinges,  
Handles: UNION AL5516AS  
Locks: UNION (Code: 452)

22	32mm Worktops not exceeding 600mm wide with bull nose to one side, screwed onto steel framing (elsewhere)	m	17
	A : 11      B : 4      C : 0      D : 2 E : 0		
23	Extra over ditto for raking cutting and waste	m	3
	A : 3      B : 0      C : 0      D : 0 E : 0		
24	Cupboard F1 489mm long as detailed on Gate House and drawing A at the back of these Bills of Quantities ( Desk top measured elsewhere)	No	1
	A : 0      B : 0      C : 0      D : 1 E : 0		

**Carried to Collection**

Bill No. 7  
Carpentry and Joinery

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25	Cupboard F1 600mm long as detailed on Administration and drawing A at the back of these Bills of Quantities (Desk top measured elsewhere) A : 3      B : 0      C : 0      D : 0 E : 0	No	3	
26	Cupboard F1 2450mm long as detailed on Kitchen, Media Centre and drawing A at the back of these Bills of Quantities.. (Doors maximum 500mm centres) A : 0      B : 2      C : 1      D : 0 E : 0	No	3	
27	Cupboard F1 2764mm long as detailed on Media Centre and drawing A at the back of these Bills of Quantities.. (Doors maximum 500mm centres) A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
28	Cupboard F1 3350mm long as detailed on page A annexed to these Bills of Quantities complete. (Doors maximum 500mm centres) A : 0      B : 2      C : 0      D : 0 E : 0	No	2	
29	Cupboard F2 489mm long as detailed on Gate House and drawing A at the back of these Bills of Quantities (Desk top measured elsewhere) A : 0      B : 0      C : 0      D : 1 E : 0	No	1	
30	Cupboard F5 1500mm long as detailed on Administration, Media Centre and drawing B at the back of these Bills of Quantities. (Doors maximum 500mm centres) A : 1      B : 1      C : 0      D : 0 E : 0	No	2	
31	Cupboard F10 600mm long as detailed on Administration and drawing C at the back of these Bills of Quantities. (desk top measured elsewhere) A : 3      B : 0      C : 0      D : 0 E : 0	No	3	
<b>Carried to Collection</b>				R
Bill No. 7 Carpentry and Joinery				

32	Cupboard F13 600mm long as detailed on Media Centre and drawing D at the back of these Bills of Quantities. (Desk top measured elsewhere) A : 0      B : 2      C : 0      D : 0 E : 0	No	2
33	Cupboard F16 2500mm long as detailed on Kitchen and drawing E at the back of these Bills of Quantities. A : 0      B : 0      C : 1      D : 0 E : 0	No	1
34	Worktop F1 690mm long as detailed on page A annexed to these Bills of Quantities ( Desk top measured elsewhere) A : 0      B : 3      C : 0      D : 0 E : 0	No	3
35	Worktop F6 1100mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 1      C : 0      D : 0 E : 0	No	1
36	Worktop F6 1485mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 0      C : 1      D : 0 E : 0	No	1
37	Worktop F6 2000mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 0      C : 0      D : 1 E : 0	No	1
38	Worktop F6 2200mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 1      C : 0      D : 0 E : 0	No	1
39	Worktop F6 2850mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 2      C : 0      D : 0 E : 0	No	2

**Carried to Collection**

Bill No. 7  
Carpentry and Joinery

R

40	Worktop F6 3260mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 1      B : 0      C : 0      D : 0 E : 0	No	1	
41	Worktop F6 7010mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
42	Worktop F7 2900mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 1      B : 0      C : 0      D : 0 E : 0	No	1	
43	Worktop F8 10556mm long as detailed on page B annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
44	Worktop F8AA 7010mm long as detailed on page C annexed to these Bills of Quantities complete, including support and bolted to wall. A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
45	Worktop F8AA 7800mm long as detailed on page C annexed to these Bills of Quantities complete including support and bolted to wall. A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
46	Worktop F12 600mm long as detailed on page D annexed to these Bills of Quantities ( Desk top measured elsewhere) complete including brackets and bolted to walls A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
47	Worktop and Shelving S8 3180mm long as detailed on page I annexed to these Bills of Quantities A : 0      B : 2      C : 0      D : 0 E : 0	No	2	
<b>Carried to Collection</b>				<b>R</b>
Bill No. 7 Carpentry and Joinery				

48	<p>Worktop and Shelving S8 3380mm long as detailed on page I annexed to these Bills of Quantities</p> <p style="margin-left: 20px;">A : 0      B : 3      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	3	
49	<p>Shelving S2 2270mm long as detailed on page H annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 1      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
50	<p>Shelving S2 2900mm long as detailed on page H annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 1      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
51	<p>Shelving S2 3600mm long as detailed on page H annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 1      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
52	<p>Shelving S3 7524mm long as detailed on page H annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 0      B : 1      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
53	<p>Shelving S4 3444mm long as detailed on page H annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 0      B : 1      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
54	<p>Shelving S5 2500mm long as detailed on page H annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 0      B : 0      C : 1      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
55	<p>Shelving S6 1600mm long as detailed on page I annexed to these Bills of Quantities complete including fixing to wall</p> <p style="margin-left: 20px;">A : 1      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	1	
<b>Carried to Collection</b>				R
<p>Bill No. 7 Carpentry and Joinery</p>				

56	Shelving S6 1800mm long as detailed on page I annexed to these Bills of Quantities complete including fixing to wall A : 0      B : 2      C : 0      D : 0 E : 0	No	2
57	Shelving S6 2500mm long as detailed on page I annexed to these Bills of Quantities complete including fixing to wall A : 0      B : 0      C : 2      D : 0 E : 0	No	2
58	Shelving S6 4010mm long as detailed on page I annexed to these Bills of Quantities complete including fixing to wall A : 1      B : 0      C : 0      D : 0 E : 0	No	1
59	Shelving S6 7010m long as detailed on page I annexed to these Bills of Quantities complete including fixing to wall A : 0      B : 1      C : 0      D : 0 E : 0	No	1
60	Island Shelving S7 3940mm long as detailed on page I annexed to these Bills of Quantities A : 0      B : 3      C : 0      D : 0 E : 0	No	3
61	Pigeon hole shelving unit 1459 x 1838mm high as detailed on page G annexed to these Bills of Quantities complete including fixing to wall A : 1      B : 0      C : 0      D : 0 E : 0	No	1
62	Computer bench 3 station unit 2610mm long complete with framework all as detailed on pages J and K annexed to these Bills of Quantities A : 0      B : 5      C : 0      D : 0 E : 0	No	5
63	Computer bench 4 station unit 3840mm long complete with framework all as detailed on pages J and K annexed to these Bills of Quantities A : 0      B : 5      C : 0      D : 0 E : 0	No	5

**Carried to Collection**

Bill No. 7  
Carpentry and Joinery

R

64	<p>Reception window as detailed on page F annexed to these Bills of Quantities complete including glass and security screen.</p> <p>A : 1      B : 0      C : 0      D : 0</p> <p>E : 0</p>	No	1
65	<p>Reception window as detailed on page F annexed to these Bills of Quantities complete including, glass louvres and security screen.</p> <p>A : 1      B : 0      C : 0      D : 0</p> <p>E : 0</p>	No	1
66	<p>News paper stand F14 2000mm long as detailed on page D annexed to these Bills of Quantities complete with frame work and bolted to wall.</p> <p>A : 0      B : 1      C : 0      D : 0</p> <p>E : 0</p>	No	1
67	<p>Bag rack F15 3350mm long as detailed on page D annexed to these Bills of Quantities complete with frames and bolted to wall.</p> <p>A : 0      B : 1      C : 0      D : 0</p> <p>E : 0</p>	No	1
68	<p>Magazine stand F18 1500mm long as detailed on page E annexed to these Bills of Quantities complete</p> <p>A : 0      B : 1      C : 0      D : 0</p> <p>E : 0</p>	No	1
69	<p>Bench F11 2740mm long as detailed on page C annexed to these Bills of Quantities complete including support and bolted to wall.</p> <p>A : 1      B : 0      C : 0      D : 0</p> <p>E : 0</p>	No	1
70	<p>Key board 850mm x 1988mm high as detailed on page G annexed to these Bills of Quantities complete including bolted to wall.</p> <p>A : 1      B : 0      C : 0      D : 0</p> <p>E : 0</p>	No	1

**Carried to Collection**

Bill No. 7  
Carpentry and Joinery

R



Item No	<b><u>BILL NO 10</u></b>	Quantity	Rate	Amount
	<b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 126 for CPAP			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions:</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres			
	Items described as as "bolted" the bolts have been given elsewhere			
	<b><u>NAILED UP CEILINGS</u></b>			
	<b><u>6.4 mm "Rhino" or equal approved gypsum plasterboard with H-type pressed steel jointing strips</u></b>			
1	Ceilings including 38 x 38 mm sawn softwood bandering at 400 mm centres in one direction A : 0      B : 0      C : 0      D : 0 E : 286	m2	286	
2	Extra over ceiling for opening for 700 x 700 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc as described A : 0      B : 0      C : 0      D : 0 E : 3	No	3	
	<b><u>4mm Everite Nutec fibre-cement boards with H-type pressed steel jointing strips</u></b>			
3	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres in one direction A : 0      B : 0      C : 0      D : 6 E : 0	m2	6	
	<b>Carried to Collection</b>			R
	Bill No. 8 Ceilings, partitions and Access Flooring			

4	Extra over ceiling for opening for 700 x 700 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc as described A : 1      B : 4      C : 1      D : 0 E : 0 <b><u>"Nucornice" by Everite or equal approved</u></b>	No	6
5	75 mm Coved cornice, glued to wall with approved adhesive A : 274      B : 391      C : 66      D : 14 E : 88 <b><u>ROOF INSULATION</u></b> <b><u>Factorylite or equal approved lightweight fibre reinforced foil facing both sides bonded insulation</u></b>	m	833
6	135mm Thick Insulation laid taut over rafters strictly in accordance with manufacturers instructions (LI) A : 260      B : 434      C : 51      D : 4 E : 392	m2	1 141

Carried to Collection

Bill No. 8  
 Ceilings, partitions and Access Flooring

R

Bill No. 8

Ceilings, partitions and Access Flooring

**COLLECTION**

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**Carried to Summary**

R

Bill No. 8

Ceilings, partitions and Access Flooring

Item  
No

Quantity

Rate

Amount

**BILL NO 11**

**FLOOR COVERINGS, PLASTIC LININGS, ETC.**

NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 130 for CPAP

**FLOOR COVERINGS**

**300 x 300 x 2,5 mm FloorworX or equal approved vinyl tiles laid strictly in accordance with the manufacturers instructions**

1	On floors	m2	607	
	A : 195    B : 408    C : 0    D : 4			
	E : 0			

**Pavelite, or similar approved self levelling screed (Provisional)**

2	On floors	m2	412	
	A : 0    B : 408    C : 0    D : 4			
	E : 0			

**POLISH, SEALERS, ETC.**

3	Prepare and strip vinyl flooring with an approved vinyl wax stripper and apply three coats heavy duty commercial vinyl floor sealant, mechanically buffed up to high gloss finish	m2	1 009	
	A : 195    B : 408    C : 0    D : 4			
	E : 402			

Carried to Summary

R

Bill No. 9  
 Floor Coverings, Plastic Linings, etc.

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 12</u></b>			
	<b><u>IRONMONGERY</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	All joinery fittings to include for fixing to timber fitting or plugged to walls			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<b><u>LOCKS</u></b>			
	<b><u>Union or equal approved</u></b>			
1	50mm Union brass padlock A : 3      B : 5      C : 0      D : 0 E : 0	No		8
2	37651 Lock with occupancy signal and emergency release A : 1      B : 1      C : 0      D : 0 E : 0	No		2
3	CZ 80941 SC indicator bolt A : 4      B : 0      C : 0      D : 0 E : 16	No		20
4	CZ 682-24/2277-78 SC chrome plated 3 lever lock set A : 13      B : 6      C : 6      D : 1 E : 0	No		26
5	CB 682-24/2247-78 SC chrome plated 4 lever lock set A : 2      B : 0      C : 0      D : 0 E : 0	No		2
	<b>Carried to Collection</b>			
	Bill No. 10 Ironmongery		R	

**PUSH PLATES AND KICK PLATES**

**3mm Thick satin anodised aluminium**

6	AL 5063-05AS push plates	No	8	
	A : 8      B : 0      C : 0      D : 0			
	E : 0			

**LETTERS, NAMEPLATES, ETC.**

**Union**

7	AL 8021/2 aluminium male or female indicator plates	No	2	
	A : 2      B : 0      C : 0      D : 0			
	E : 0			

**3mm Perspex name plate reverse engraved and enamelled in letters or numerals**

25mm High letters engraved on and including plate

8	Door number consisting one letter and one number, including 25mm key ring with 1mm brass plate with same number as door	No	25	
	A : 9      B : 9      C : 6      D : 1			
	E : 0			

9	Door number consisting one letter and two numbers including 25mm key ring with 1mm brass plate with same number as door.	No	14	
	A : 7      B : 7      C : 0      D : 0			
	E : 0			

50mm High letters engraved on and including plate

10	Door signage consisting four letters	No	1	
	A : 1      B : 0      C : 0      D : 0			
	E : 0			

11	Door signage consisting five letters	No	3	
	A : 2      B : 1      C : 0      D : 0			
	E : 0			

12	Door signage consisting six letters	No	4	
	A : 2      B : 2      C : 0      D : 0			
	E : 0			

13	Door signage consisting seven letters	No	3	
	A : 3      B : 0      C : 0      D : 0			
	E : 0			

**Carried to Collection**

Bill No. 10  
 Ironmongery

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14	Door signage consisting eight letters A : 0      B : 1      C : 0      D : 0 E : 0	No	1
15	Door signage consisting nine letters A : 5      B : 2      C : 0      D : 0 E : 0	No	7
16	Door signage consisting ten letters A : 1      B : 0      C : 0      D : 0 E : 0	No	1
17	Door signage consisting eleven letters A : 0      B : 3      C : 1      D : 0 E : 0	No	4
18	Door signage consisting twelve letters A : 0      B : 2      C : 0      D : 0 E : 0	No	2
19	Door signage consisting thirteen letters A : 0      B : 1      C : 0      D : 0 E : 0	No	1
20	Door signage consisting fourteen letters A : 0      B : 0      C : 2      D : 0 E : 0	No	2
21	Door signage consisting sixteen letters A : 0      B : 1      C : 0      D : 0 E : 0	No	1
22	Door signage consisting twenty one letters A : 0      B : 1      C : 0      D : 0 E : 0	No	1

**PELMETS AND CURTAIN TRACKS**

23	Approved single fascia type Aluminium Curtain track, including runners and plugged to wall. A : 23      B : 4      C : 0      D : 0 E : 0	m	27
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**Carried to Collection**

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**SUNDRIES**

24	100mm chromium plated cabin hook and eye including 150x150mm Saligna block bolted to wall A : 5      B : 5      C : 0      D : 0 E : 0	No	10
25	Union AL8722AS Hat and coat hook A : 4      B : 0      C : 0      D : 0 E : 0	No	4
26	Union AL5066-06ASE14 Paraplegic sign screwed on A : 1      B : 1      C : 0      D : 0 E : 0	No	2
27	Union 87001SS door stop plugged A : 20      B : 17      C : 5      D : 0 E : 0	No	42
28	Approved 916 x 19mm diameter Polished stainless steel towel rail including end brackets plugged to wall A : 3      B : 2      C : 0      D : 0 E : 0	No	5
29	Purpose made Toilet roll holder as detail on page G attached to these Bills of Quantities A : 5      B : 1      C : 0      D : 0 E : 0	No	6
30	Union 744SC door closer fixed to steel door frame A : 2      B : 0      C : 0      D : 0 E : 0	No	2
<b><u>"Chairman Industries" or similar approved</u></b>			
31	DL3 Stainless steel wall mounted side grab rail plugged A : 1      B : 1      C : 0      D : 0 E : 0	No	2
32	SR2 Stainless steel wall mounted rear grab rail around cistern plugged A : 1      B : 1      C : 0      D : 0 E : 0	No	2

**PINNING BOARDS, WRITING BOARDS,  
 PROJECTION SCREENS, ETC**

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**"Parrot Products" or similar approved**

33 Folding white "Edu" board, size 4860 x 1220mm high overall, consisting of 2420 x 1220mm high non-reflective, magnetic centre board and two 1220 x 1220mm high magnetic side boards, complete with , chalk rails plugged to wall  
 A : 0      B : 6      C : 0      D : 0  
 E : 7

No 13

**SLIDING FOLDING DOOR**

34 Varifold or equal approved double folding door including suitable lockset, hung from and including aluminium track with ball bearing rollers, etc complete for opening 2000 x 800mm high overall plugged to wall  
 A : 1      B : 0      C : 0      D : 0  
 E : 0

No 1

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**COLLECTION**

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Bill No. 10  
 Ironmongery

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 13</u></b>			
	<b><u>METALWORK</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></b>			
	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			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<b><u>SUNDRY STEELWORK</u></b>			
	<b><u>Galvanised mild steel gates</u></b>			
1	Mild steel gate G1 877 x 2118mm high all as detailed on page L and M annexed to these Bills of Quantities complete including hinges, upright lock box and fixing to wall  A : 1      B : 7      C : 0      D : 0 E : 0	No	8	
2	Mild steel gate G2 2300 x 2118mm high all as detailed on page L and M annexed to these Bills of Quantities complete including hinges, upright lock box, barrel bolt and fixing to wall  A : 2      B : 0      C : 0      D : 0 E : 0	No	2	
3	Mild steel gate G2 3640 x 2118mm high all as detailed on page L annexed to these Bills of Quantities complete including hinges, upright lock box, barrel bolt detailed on page M and fixing to wall  A : 2      B : 0      C : 0      D : 0 E : 0	No	2	
	<b>Carried to Collection</b>			R
	Bill No. 11 Metalwork			

**HOT DIPPED GALVANISED STEEL WINDOWS**

All windows shall be fitted with brass handles, stays, catches and other fittings

**CATCHES AND STAYS ONLY for existing Standard type windows**

4	Window type E1, 533 x 654mm high A : 4      B : 0      C : 0      D : 0 E : 0	No	4
5	Window type E2, 1022 x 654mm high A : 5      B : 0      C : 0      D : 0 E : 0	No	5
6	Window type C2F, 1022 x 949mm high A : 3      B : 0      C : 0      D : 0 E : 0	No	3
7	Window type D2F, 1022 x 1245mm high A : 21      B : 0      C : 0      D : 0 E : 0	No	21
8	Window type SSB31 987 x 511mm high A : 0      B : 6      C : 0      D : 0 E : 0	No	6
9	Window type SSB31/SSB31, 987 x 1022mm high A : 0      B : 0      C : 4      D : 0 E : 0	No	4
10	Window type SSB41, 1303 x 511mm high A : 0      B : 32      C : 0      D : 0 E : 0	No	32
11	Window type SSB42, 1303 x 978mm high A : 0      B : 17      C : 0      D : 0 E : 0	No	17
12	Window type SSB43, 1303 x 1445mm high A : 0      B : 6      C : 0      D : 0 E : 0	No	6

**APPROVED STEEL ROLLER SHUTTERS, ETC.**

**Carried to Collection**

Bill No. 11  
Metalwork

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**Roller shutters fixed to brickwork or concrete**

13	Manual push-up slatted roller shutter for 2440 x 1340mm high opening A : 0      B : 0      C : 1      D : 0 E : 0	No	1
14	Manual push-up slatted roller shutter for 2440 x 2100mm high opening A : 0      B : 1      C : 0      D : 0 E : 0	No	1

**NATURAL ANODISED ALUMINIUM LOUVRE UNITS**

15	Adjustable aluminium louvre unit fit into 420 x 1105mm high wooden opening including 150 x 6mm arris rounded laminated safety glass horizontal louvres. A : 2      B : 0      C : 0      D : 0 E : 0	No	2
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**STRONG ROOM DOORS**

16	Approved record room door 948 x 1980mm high with 2 hour fire test rating, including breaking out existing pressed steel door frame and build into one brick wall in accordance with manufacturers instructions A : 1      B : 0      C : 0      D : 0 E : 0	No	1
17	Approved strong room ventilator, including forming hole into existing one brick wall and making good. A : 3      B : 0      C : 0      D : 0 E : 0	No	3
18	Approved strong room door stop bolted to floor A : 1      B : 0      C : 0      D : 0 E : 0	No	1

**SAFE'S**

**"Mutual Austen" or equal approved**

19	WL3 Security wall safe size, 295 x 250 x 450mm high, fixed to concrete A : 1      B : 0      C : 0      D : 0 E : 0	No	1
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**Carried to Collection**

Bill No. 11  
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Bill No. 11

Metalwork

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Bill No. 11  
 Metalwork

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 14</u></b>			
	<b><u>PLASTERING</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP			
	<b><u>GRANOLITHIC (PROVISIONAL)</u></b>			
	<b><u>Untinted granolithic on concrete</u></b>			
1	25mm Thick on floors A : 8      B : 0      C : 0      D : 0 E : 0	m2	8	
2	Average 50mm Thick on floors laid to falls A : 0      B : 0      C : 3      D : 0 E : 0	m2	3	
3	70mm high coved skirting A : 11      B : 41      C : 51      D : 0 E : 0	m	103	
	<b><u>SCREEDS (PROVISIONAL)</u></b>			
	<b><u>Cement plaster screeds steel trowelled on concrete</u></b>			
4	25mm Thick on floors and landings A : 0      B : 0      C : 0      D : 4 E : 0	m2	4	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>Cement plaster on brickwork part on concrete</u></b>			
5	On walls A : 0      B : 0      C : 0      D : 0 E : 125	m2	125	
6	On walls in patcing and making good A : 0      B : 5      C : 0      D : 0 E : 0	m2	5	
7	On narrow widths A : 0      B : 0      C : 0      D : 0 E : 12	m2	12	
	<b>Carried to Collection</b>			
	Bill No. 12 Plastering			R

<b><u>Cement plaster on concrete</u></b>				
8	Soffits of slabs A : 8      B : 0      C : 0      D : 0 E : 0	m2	8	
<b><u>EXTERNAL PLASTER</u></b>				
<b><u>Cement plaster on brickwork part on concrete</u></b>				
9	On walls A : 0      B : 0      C : 20      D : 0 E : 313	m2	332	
<b><u>Cement plaster on concrete including preparing existing smooth concrete surface to receive plaster</u></b>				
10	Saw cut joint to plaster A : 141      B : 89      C : 31      D : 0 E : 0	m	261	
<b><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC.</u></b>				
11	3 x 30mm Flat section brass dividing strips between different floor finishes A : 13      B : 5      C : 2      D : 1 E : 0	m	20	
12	Genesis type MMB brass medium duty movement joint with type 16 finish A : 1      B : 0      C : 0      D : 0 E : 0	m	1	
<b>Carried to Collection</b>				
Bill No. 12 Plastering				R

Bill No. 12

Plastering

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Bill No. 12  
 Plastering

Item No	<b>BILL NO 15</b>	Quantity	Rate	Amount
	<b><u>TILING</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 144 for CPAP			
	-----			
	<b><u>WALL TILING</u></b>			
	<b><u>300 x 300mm First Grade matt white ceramic tiles pointed with anti-bacterial grout</u></b>			
1	On walls A : 4      B : 0      C : 3      D : 0 E : 0	m2	7	
2	Fair exposed cutting and fitting around pipe not exceeding 100mm internal diameter A : 25      B : 0      C : 0      D : 0 E : 0	No	25	
	<b><u>FLOOR TILING</u></b>			
	<b><u>300 x 300mm approved ceramic floor tiles with 8mm joints fixed with adhesive to screed (screed elsewhere) and flush pointed with approved tinted grout</u></b>			
3	On floors A : 64      B : 0      C : 0      D : 0 E : 0	m2	64	
	<b>Carried to Summary</b>			
	Bill No. 13 Tiling			
				R

Item  
No

Quantity      Rate      Amount

**BILL NO 16**

**PLUMBING AND DRAINAGE**

NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 148 for CPAP

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**SUPPLEMENTARY PREAMBLES**

**Concrete pipes:**

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

**uPVC pipes and fittings:**

Soil, waste and vent pipes and fittings shall be solvent weld jointed

**uPVC pressure pipes and fittings:**

Pipes for water supply shall be of the class stated

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

**Copper pipes:**

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

**Carried to Collection**

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Bill No. 14  
 Plumbing and Drainage (Provisional)

**Fixing of pipes**

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

**Lead pipes and fittings**

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

**Reducing fittings**

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

**Wire gratings**

Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings

**Exposed concrete surfaces**

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster

**Excavations**

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

**Laying, backfilling, bedding, etc. of pipes**

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

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Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:  
 SANS 1200 L : Medium-pressure pipelines  
 LD : Sewers  
 LE : Stormwater drainage  
 Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200  
 DB : Earthworks (Pipe trenches)  
 Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200  
 LB : Bedding (Pipes).  
 Unless otherwise described bedding of rigid pipes shall be class B bedding

**Flush pans**

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

**RAINWATER DISPOSAL**

**Ogee seamless gutters with factory painted finish including approved snow straps**

1	150 x 100mm eaves gutters. A : 64    B : 125    C : 20    D : 8 E : 116	m	333
2	Extra over eaves gutter for stopped end A : 4    B : 4    C : 4    D : 4 E : 8	No	24
3	Extra over eaves gutter for outlet for 75 x 100mm pipe A : 10    B : 10    C : 4    D : 2 E : 8	No	34
4	100 x 75mm Rainwater downpipe with brackets fixed to brick wall or concrete A : 39    B : 43    C : 18    D : 7 E : 28	m	135
5	Extra over rainwater pipe for shoe A : 10    B : 10    C : 4    D : 2 E : 8	No	34
6	Extra over rainwater pipe for eaves offset A : 10    B : 10    C : 4    D : 2 E : 8	No	34

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**SANITARY FITTINGS**

**Stainless steel**

7	Franki SW06 1200mm Drop-on type sink and drainer with single 460 x 355 x 150mm basin	No	2	
	A : 1      B : 1      C : 0      D : 0			
	E : 0			

8	Franki Luxtub code 318600 wash trough complete, including code 200322 brackets plugged to wall and Cobra code 316 CP waste	No	7	
	A : 0      B : 2      C : 5      D : 0			
	E : 0			

**Vitreous China**

9	Vaal Lavatra code 704001 wall mounted bowl urinal complete with grating, spreader, two hangers, Cobra code 345/50 CP bottle trap, Flushmaster FJ6000 CP flush valve and CP flushpipe	No	2	
	A : 2      B : 0      C : 0      D : 0			
	E : 0			

10	Vaal Springbok code 7031 basin complete with and including two 15mm Cobra 111 pillar tap, Cobra 303/309 32mm chromium plated waste, anti-theft plug and chain and fixing to wall, complete with all necessary bolts, hangers, etc. and silicone finish to walls	No	2	
	A : 1      B : 1      C : 0      D : 0			
	E : 0			

11	Vaal Springbok code 7031 basin complete with and including one 15mm Cobra lever action pillar tap, Cobra 303/309 32mm chromium plated waste, anti-theft plug and chain and fixing to wall, complete with all necessary bolts, hangers, etc. and silicone finish to walls	No	7	
	A : 6      B : 1      C : 0      D : 0			
	E : 0			

12	Afsan Aquasave code 755499 white washdown suit with P trap and 6 litre SISO cistern for fixing in duct, complete with gaskets, bolts, heavy duty flap and seat, etc. and bedding pan in position	No	5	
	A : 4      B : 1      C : 0      D : 0			
	E : 0			

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13	Vaal Protea Paraplegic code 750200 floor mounted paraplegic suite complete with 9 litre cistern code 710631, complete with CP flushpipe, gaskets, bolts, Samp thermoplastic flap and seat, etc. and bedding pan in position	No	2
	A : 1      B : 1      C : 0      D : 0 E : 0		
	<b><u>TRAPS, ETC.</u></b>		
14	40mm Flexitrap rubber deep seal P or S trap	No	14
	A : 5      B : 5      C : 0      D : 0 E : 4		
15	Marley Code ETP 10 trap	No	6
	A : 0      B : 1      C : 5      D : 0 E : 0		
16	40mm rough brass shallow seal shower P-trap with chromium plated grating	No	1
	A : 0      B : 1      C : 0      D : 0 E : 0		
	<b><u>TAPS, VALVES, ETC.</u></b>		
	<b><u>Cobra Watertech</u></b>		
17	15mm 1075-CP fullway ballcock	No	36
	A : 34      B : 2      C : 0      D : 0 E : 0		
18	Code 206-15 Star bib tap with extension	No	14
	A : 6      B : 3      C : 5      D : 0 E : 0		
19	Code 138-15 Star undertile stopcock	No	2
	A : 0      B : 2      C : 0      D : 0 E : 0		
20	15mm CP shower rose	No	1
	A : 0      B : 1      C : 0      D : 0 E : 0		
21	Code 345/50 CP bottle trap	No	8
	A : 7      B : 1      C : 0      D : 0 E : 0		

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22	Code 365/50 CP bottle trap A : 2      B : 0      C : 0      D : 0 E : 0	No	2
23	20mm Gate valve A : 9      B : 2      C : 0      D : 0 E : 0	No	11
24	32mm Gate valve A : 1      B : 1      C : 0      D : 0 E : 0	No	2
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
25	50mm Pipes laid under floors A : 12      B : 5      C : 6      D : 0 E : 0	m	23
26	32mm Pipes A : 11      B : 12      C : 0      D : 0 E : 0	m	23
27	40mm Pipes A : 24      B : 5      C : 14      D : 0 E : 0	m	43
28	50mm Pipes A : 12      B : 0      C : 11      D : 0 E : 0	m	23
29	100mm Pipes A : 9      B : 8      C : 11      D : 0 E : 0	m	28
<b><u>Extra over uPVC pipes for fittings</u></b>			
30	100mm Reducer A : 5      B : 4      C : 0      D : 0 E : 0	No	9
31	50mm Bend A : 15      B : 4      C : 0      D : 0 E : 0	No	19

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32	100mm Bend A : 15      B : 6      C : 2      D : 0 E : 0	No	23
33	100mm Pan connector A : 20      B : 2      C : 0      D : 0 E : 0	No	22
34	50mm Access bend A : 8      B : 4      C : 4      D : 0 E : 0	No	16
35	100mm Access bend A : 4      B : 2      C : 0      D : 0 E : 0	No	6
36	50mm Access junction A : 6      B : 0      C : 3      D : 0 E : 0	No	9
37	100mm Access junction A : 21      B : 2      C : 1      D : 0 E : 0	No	24
38	100mm "GI Two-way" vent valve A : 3      B : 1      C : 0      D : 0 E : 0	No	4
<b><u>Sundries</u></b>			
39	Testing waste pipe system A : 1.00      B : 0.00      C : 0.00      D : 0.00 E : 0.00		Item
<b><u>WATER SUPPLIES</u></b>			
<b><u>Class 1 copper pipes and fittings</u></b>			
40	15mm pipes A : 70      B : 22      C : 24      D : 0 E : 0	m	116
41	22mm pipes A : 107      B : 28      C : 18      D : 0 E : 0	m	153

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42	32mm pipes A : 4      B : 0      C : 0      D : 0 E : 0	m	4
<b><u>Extra over class 1 copper pipes for capillary fittings</u></b>			
43	15 mm Fittings A : 83      B : 12      C : 14      D : 0 E : 0	No	109
44	22 mm Fittings A : 44      B : 14      C : 12      D : 0 E : 0	No	70
<b><u>TESTING</u></b>			
45	Testing water pipe system A : 0.00      B : 1.00      C : 0.00      D : 0.00 E : 0.00		Item
<b><u>FIRE APPLIANCES, ETC.</u></b>			
46	4.5kg DCP portable fire extinguisher on and including wrought Saligna backboard 25mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook A : 3      B : 3      C : 1      D : 1 E : 0	No	8
<b><u>GAS INSTALLATION</u></b>			
<b><u>Gas Installation for Stove</u></b>			
47	Provide the amount of R20 000.00 (Twenty Thousand Rand) for the cost of gas installation for stove.		Item
48	Profit & Attendance on above		Item

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Bill No. 14  
 Plumbing and Drainage (Provisional)

Item No	<b><u>BILL NO. 17</u></b>	Quantity	Rate	Amount
	<b><u>ELECTRICAL INSTALLATION</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 160 for Haylett Formula purposes			
	-----			
	<b><u>BUILDINGS</u></b>			
	<b><u>(CPAP WORK GROUP NO. 160)</u></b>			
	<b><u>Draw Wires</u></b>			
1	Supply and install 0,6mm diameter galvanised draw wire in sleeves or conduits for data installation A : 0      B : 0      C : 0      D : 100 E : 180	m	280	
	<b><u>Distribution Boards</u></b>			
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars. Including breaking out existing trays, build in new trays and making good to brickwork and cement plaster			
2	Distribution Board (DB-Block A) A : 1      B : 0      C : 0      D : 0 E : 0	No	1	
3	Distribution Board (DB-Block B) A : 0      B : 1      C : 0      D : 0 E : 0	No	1	
4	Distribution Board (DB-Block C) A : 0      B : 0      C : 1      D : 0 E : 0	No	1	
	<b>Carried to Collection</b>		R	
	Bill No. 15 Electrical Installation (Provisional)			

5	Distribution Board (DB-Block D) A : 0      B : 0      C : 0      D : 1 E : 0	No	1
6	Renovate existing Distribution Board (DB-Block E) A : 0      B : 0      C : 0      D : 0 E : 1	No	1
7	Renovate existing Distribution Board (DB-Block F) A : 0      B : 0      C : 0      D : 0 E : 1	No	1
<b><u>Low Voltage PVC Cables</u></b>			
Supply and installation of PVC SWA PVC cables and bare copper Earth Wire in sleeves and in trenches			
8	16mm 2 core PVC SWA cable A : 0      B : 0      C : 0      D : 0 E : 11	m	11
9	10mm BCEW A : 0      B : 0      C : 0      D : 0 E : 11	m	11
Terminations:			
10	10mm 2 core cable A : 0      B : 0      C : 0      D : 0 E : 2	No	2
11	16mm 2 core cable A : 1      B : 1      C : 1      D : 0 E : 0	No	3
12	25mm 2 core cable A : 0      B : 0      C : 0      D : 1 E : 0	No	1
13	6mm BCEW A : 0      B : 0      C : 0      D : 0 E : 2	No	2
14	10mm BCEW A : 1      B : 1      C : 1      D : 0 E : 0	No	3

**Carried to Collection**

Bill No. 15  
Electrical Installation (Provisional)

R

15	<p>16mm BCEW</p> <p style="margin-left: 20px;">A : 0      B : 0      C : 0      D : 1</p> <p style="margin-left: 20px;">E : 0</p> <p><b><u>Conduit Work</u></b></p> <p>Supply, delivery and installation of SABS approved PVC/Galvanised Conduits complete with all required conduit accessories</p> <p>Built or Chase into brick or concrete work:</p>	No	1
16	<p>20mm PVC Conduit</p> <p style="margin-left: 20px;">A : 0      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 160</p> <p>In ceiling space and timber work or along purlins</p>	m	160
17	<p>20mm PVC Conduit</p> <p style="margin-left: 20px;">A : 344      B : 241      C : 95      D : 20</p> <p style="margin-left: 20px;">E : 160</p> <p><b><u>Conduit Boxes</u></b></p> <p>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</p>	m	860
18	<p>20mm diameter 4 way type (round box)</p> <p style="margin-left: 20px;">A : 0      B : 0      C : 0      D : 3</p> <p style="margin-left: 20px;">E : 30</p> <p><b><u>Wall Boxes</u></b></p> <p>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work</p> <p>Flush mounted type:</p>	No	33
19	<p>100 x 50 x 50mm</p> <p style="margin-left: 20px;">A : 0      B : 0      C : 0      D : 2</p> <p style="margin-left: 20px;">E : 7</p>	No	9
20	<p>100 x 100 x 50mm</p> <p style="margin-left: 20px;">A : 0      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 14</p>	No	14

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**PVC Wiring in conduits:**

21	1.5mm <sup>2</sup> for lights circuits A : 0      B : 0      C : 690      D : 170 E : 300	m	1 160
22	2,5mm <sup>2</sup> for plug sockets circuits A : 1057      B : 840      C : 200      D : 200 E : 200	m	2 497

**Stranded Bare Copper Earth Wire**

Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits measured net.

23	1.5mm <sup>2</sup> A : 120      B : 0      C : 150      D : 30 E : 300	m	600
24	2.5mm <sup>2</sup> A : 400      B : 600      C : 100      D : 20 E : 200	m	1 320

**Light Switches**

Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas

25	1 Lever 1 way A : 2      B : 6      C : 1      D : 0 E : 8	No	17
26	1 Lever 2 way A : 2      B : 0      C : 1      D : 0 E : 0	No	3
27	2 Lever 1 way A : 1      B : 1      C : 1      D : 1 E : 0	No	4

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28	<p>Photo cell</p> <p style="margin-left: 20px;">A : 0      B : 2      C : 1      D : 0</p> <p style="margin-left: 20px;">E : 2</p> <p><b><u>Socket Outlets</u></b></p> <p>Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A Switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface</p> <p>The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.</p> <p>All flush type boxes and special pedestals measured elsewhere.</p> <p><b><u>Flush switched sockets type:</u></b></p>	No	5	
29	<p>16A 3 pin double socket outlets</p> <p style="margin-left: 20px;">A : 11      B : 6      C : 4      D : 1</p> <p style="margin-left: 20px;">E : 14</p>	No	36	
30	<p>Type D: wall mounted power cluster socket outlets</p> <p style="margin-left: 20px;">A : 10      B : 4      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p> <p><b><u>Light Fittings</u></b></p> <p>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</p> <p>Fittings to be equal and similar approved to the below quoted manufacture.</p>	No	14	
31	<p>Type F2: 2x28W 1200mm T5 Open Channel Fluorescent Luminaire with electronic control gear</p> <p style="margin-left: 20px;">A : 0      B : 40      C : 2      D : 1</p> <p style="margin-left: 20px;">E : 35</p>	No	78	
32	<p>Type D1: 18 W Ceiling mounted downlighter</p> <p style="margin-left: 20px;">A : 23      B : 0      C : 0      D : 0</p> <p style="margin-left: 20px;">E : 0</p>	No	23	
<b>Carried to Collection</b>				R
<p>Bill No. 15 Electrical Installation (Provisional)</p>				

33	Type W: 2x28W 1200mm Vapour proof Fluorescent Luminaire with electronic control gear A : 0      B : 0      C : 9      D : 0 E : 0	No	9
34	Type B2 1x18W wall/ceiling mounted bulkhead Luminaire with electronic control gear A : 0      B : 20      C : 9      D : 2 E : 9	No	40
<b><u>Electrical Tests</u></b>			
Making provision for the required inspection tests and the commissioning of the complete installation and the issuing of the required certificate			
35	Building installation A : 1      B : 0      C : 0      D : 0 E : 0		
<b><u>Sundries</u></b>			
36	300 x 300mm - Telephone & Data DB A : 1      B : 1      C : 0      D : 0 E : 0	No	2
37	100 x 100 x 50mm - Draw box for Communication complete with blank cover A : 3      B : 0      C : 0      D : 0 E : 0	No	3
38	Two compartment power skirting installed A : 18      B : 63      C : 0      D : 0 E : 0	m	81
39	Telephone points on Powerskirting: including draw box, blank cover plate etc. A : 38      B : 0      C : 0      D : 0 E : 0	No	38
40	Power points on Powerskirting: including draw box, blank cover plate etc. A : 5      B : 20      C : 0      D : 0 E : 0	No	25

SUM

**Carried to Collection**

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Bill No. 15  
Electrical Installation (Provisional)

41	Supply and install a 150L Solar Water Geyser A : 1      B : 0      C : 1      D : 0 E : 0	No	2	
42	40A Isolator points with complete and suitable fitting, for geyser or cooker A : 1      B : 1      C : 1      D : 0 E : 0	No	3	
43	Supply and install 114db 230V 50Hz 1 Amp weatherproof school siren 1000SL blaster low penetrating A : 1      B : 0      C : 0      D : 0 E : 0	No	1	
<p><b><u>Install Lightning Protection and Earthing systems in accordance to SANS 62305 and SANS 10313 complete with the following accessories - air termination conductor, test joint plus box, earth electrodes and surge arrestors</u></b></p> <p>Lightning protection shall be carried out by appointed specialist and must comply with SANS 10313</p>				
44	Lightning protection-to Guard house with sheet iron roof covering and approximately 9m <sup>2</sup> in area			Item
45	Lightning protection to Kitchen with sheet iron roof covering and approximately 62m <sup>2</sup> in area			Item
46	Lightning protection to Classroom block with sheet iron roof covering and approximately 487m <sup>2</sup> in area			Item
47	Lightning protection to Administration block with sheet iron roof covering and approximately 306m <sup>2</sup> in area			Item
48	Lightning protection to existing classroom block with sheet iron roof covering and approximately 184m <sup>2</sup> in area			Item
49	Lightning protection to existing classroom block with sheet iron roof covering and approximately 264m <sup>2</sup> in area			Item
<b>Carried to Collection</b>				
Bill No. 15 Electrical Installation (Provisional)				R

Bill No. 15

Electrical Installation (Provisional)

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Bill No. 15  
 Electrical Installation (Provisional)

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 18</u></b>			
	<b><u>GLAZING</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 150 for Haylett Formula purposes -----			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP -----			
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>			
	<b><u>6.38 mm Obscure glass</u></b>			
1	Panes not exceeding 0,1 m2 A : 4      B : 6      C : 0      D : 0 E : 84	m2	94	
	<b><u>MIRRORS, ETC.</u></b>			
	<b><u>6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b>			
2	450 x 600mm Mirrors plugged to wall with four chromium plated dome headed screws. A : 2      B : 1      C : 0      D : 0 E : 0	No	3	
3	450 x 900mm Mirrors plugged to wall with four chromium plated dome headed screws. A : 1      B : 0      C : 0      D : 0 E : 0	No	1	
	<b>Carried to Summary</b>			R
	Bill No. 16 Glazing			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 19</u></b>			
	<b><u>PAINTWORK</u></b>			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP			
	-----			
	<b><u>ON FLOATED PLASTER</u></b>			
	<b><u>Prepare, stop and paint one coat alkali resistant primer and two full coats Wall and All</u></b>			
1	On internal plastered walls and columns A : 0      B : 0      C : 106      D : 7 E : 232	m2	344	
2	On external plastered wall beams A : 41      B : 69      C : 14      D : 0 E : 0	m2	124	
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>One coat Plaster Primer and two coats super acrylic PVA paint</u></b>			
3	On ceilings and cornices (LI) A : 0      B : 0      C : 0      D : 0 E : 402	m2	402	
	<b><u>Prepare, stop, paint one coat alkali resistant primer and two full coats Super Acrylic Emulsion</u></b>			
4	On internal fibre cellulose board ceilings including priming nail heads with one coat Universal undercoat A : 0      B : 0      C : 0      D : 6 E : 161	m2	167	
5	On internal fibre cellulose board cills A : 5      B : 11      C : 0      D : 1 E : 0	m2	17	
	<b>Carried to Collection</b>			
	Bill No. 17 Paintwork			
				R

<b><u>Prepare, stop and paint one coat alkali resistant primer and two full coats Wall and All</u></b>			
6	On fibre cellulose fascia A : 43    B : 65    C : 23    D : 3 E : 0	m2	133
<b><u>ON METAL</u></b>			
<b><u>Prepare, touch up factory primer, paint one coat zinc chromate primer, one undercoat and two full coats high Plascon Vevaglo Polyurethane Enamel</u></b>			
7	On putty only in steel windows A : 34    B : 57    C : 6    D : 3 E : 0	m2	101
8	On surfaces not exceeding 300mm girth A : 61    B : 0    C : 0    D : 0 E : 0	m	61
<b><u>ON WOOD</u></b>			
<b><u>Prepare, stop and apply three coats Plascon X44 Polyurethane varnish, lightly sanded down between coats</u></b>			
9	On general surfaces of fittings, doors, etc. A : 50    B : 0    C : 0    D : 3 E : 0	m2	53
<b><u>Prepare, stop, stain and apply two coats Plascon X44 Polyurethane varnish, lightly sanded down between coats</u></b>			
10	On skirtings, rails, etc. not exceeding 300mm girth A : 245    B : 275    C : 0    D : 8 E : 0	m	527
<b><u>Prepare, stop and paint one coat alkali resistant primer and two full coats Plascon Velvaglo Polyurethane enamel</u></b>			
11	On general surfaces of fittings, doors, etc. A : 164    B : 58    C : 16    D : 0 E : 0	m2	239
<b><u>PREPARATORY WORK TO EXISTING WORK (PROVISIONAL)</u></b>			

Carried to Collection

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Bill No. 17  
 Paintwork

**Previously painted plastered surfaces**

Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth

**Previously painted metal surfaces**

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

**Previously painted wood surfaces**

Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth

**ON FACE BRICK WALLS**

**Wash down thoroughly by means of high pressure water blasting.**

12	Internal & external walls	m2	892	
	A : 0      B : 0      C : 0      D : 0			
	E : 892			

**ON PREVIOUSLY PAINTED PLASTERED WALLS**

**Paint one coat Wall and All**

13	On internal plastered walls and columns	m2	1 583	
	A : 745      B : 838      C : 0      D : 0			
	E : 0			

**ON FIBRE CEMENT**

**Prepare and paint one coat Plascon Super Acrylic PVA (EPL) paint**

14	On internal fibre cellulose board ceilings including priming nail heads with one coat Universal undercoat	m2	784	
	A : 300      B : 434      C : 51      D : 0			
	E : 0			

**Carried to Collection**

Bill No. 17  
 Paintwork

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<b><u>Prepare and paint two coats Plascon Super Acrylic PVA (EPL) paint</u></b>			
15	On ceilings A : 0      B : 0      C : 0      D : 0 E : 116	m2	116
<b><u>Prepare, stop and paint two full coats Plascon Cashmere</u></b>			
16	On internal plastered walls and columns in multi colours A : 0      B : 0      C : 0      D : 0 E : 705	m2	705
17	On external plastered walls and columns in multi colours A : 0      B : 0      C : 0      D : 0 E : 366	m2	366
<b><u>ON METAL</u></b>			
<b><u>Prepare and remove flaking paint and rust complete apply rust converter, touch up with Plascon Namelcote Zinc Chromate Metal Primer, one coat Plascon Merit Universal Undercoat and one coat Plascon Velvaglo Polyurethane Velvet Enamel paint</u></b>			
18	On steel gates (both sides measured) A : 0      B : 0      C : 0      D : 0 E : 23	m2	23
19	On steel windows (both sides measured) A : 0      B : 0      C : 0      D : 0 E : 168	m2	168

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Bill No. 17  
 Paintwork

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Bill No. 17

Paintwork

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Bill No. 17  
 Paintwork

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 20</u></b>			
	<b><u>EXTERNAL WORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Top soil			
	All top soil to be spread and levelled on site			
	<b><u>Nature of ground</u></b>			
	NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density -----			
	<b><u>(CPAP WORK GROUP NO. 102)</u></b>			
	<b><u>DEMOLITIONS, ETC.</u></b>			
1	Break up by hand and remove existing 100mm thick walkway slab	m2	325	
2	Take down by hand and remove existing 2m high fencing (LI)	m	210	
3	Break down by hand and remove one brick retaining wall approximately 500mm high (LI)	m	44	
	<b><u>(CPAP WORK GROUP NO. 104)</u></b>			
	<b><u>SITE CLEARANCE, ETC.</u></b>			
4	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. and soil to be stock piled as described	m2	1 050	
5	Syzygium Cordatum selected 50 litre trees planted in well prepared holes, including digging 200 litre hole, treated backfilling with approved manure and backfill. (LI)	No	8	
	<b>Carried to Collection</b>			R
	Bill No. 18 External Site Work (Provisional)			

**BULK EARTH WORKS**

6	Excavate over site 400mm deep set aside and re-fill in layers 200mm thick and compact to 90% modified AASHTO density	m3	2 040
7	Extra over excavations in earth for boulder excavation	m3	306

**PARKING AREA**

**EXCAVATIONS BY HAND UNDER PARKING AREA AND PAVING**

8	Open face excavation including carting away (LI)	m3	451
9	Compaction of ground surface by hand under pavings, etc. including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density (LI)	m2	576

**Wearing course (G6) 200 mm thick filling supplied and carted on by the Contractor, compacted in layers to 95% Mod. AASHTO density including tests as described**

10	Under pavings	m2	576
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**Wearing course (C4)150 mm thick filling supplied and carted on by the Contractor with 3% cement, compacted in layers to 95% Mod. AASHTO density including tests as described**

11	Under pavings	m2	557
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**(CPAP GROUP NO. 110)**

**Paving**

12	80mm thick Precast interlocking paving laid on and including 25mm thick layer of sand treated with weed killer and ant poisoning as described.	m2	537
13	Circular cutting and waste to ditto	m	26

**Carried to Collection**

Bill No. 18  
External Site Work (Provisional)

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<b><u>Concrete beams</u></b>				
14	25MPa mass concrete ground beam	m3	0.4	
<b><u>Fig 6 Precast concrete kerbs</u></b>				
15	Kerbing placed on and including 50mm thick 15Mpa mass concrete blinding and concrete support at joints	m	97	
16	Ditto but circular on plan	m	26	
<b><u>(CPAP WORK GROUP NO. 104)</u></b>				
<b><u>PAVINGS</u></b>				
17	Open face excavation including carting away (LI)	m3	75	
18	Compaction of ground surface by hand under pavings, etc. including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 95% modified AASHTO density (LI)	m2	487	
<b><u>Wearing course (G7)150 mm thick filling supplied and carted on by the Contractor, compacted in layers to 95% Mod. AASHTO density including tests as described</u></b>				
19	Under pavings	m2	487	
<b><u>Wearing course (C4) 150 mm thick stabilized with 3% cement and carted on by the Contractor, compacted in layers to 98% Mod. AASHTO density including tests as described</u></b>				
20	Under roads, parking, etc	m2	487	
<b><u>(CPAP GROUP NO. 110)</u></b>				
<b><u>REINFORCED CONCRETE</u></b>				
<b><u>25MPa/19mm concrete placed by hand</u></b>				
21	Surface beds, walkways, aprons, etc. (LI)	m3	51	
<b>Carried to Collection</b>				
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22	150mm wide x 75mm thick thickening of edge of paving including formwork to edge 200mm high and additional excavations	m	283	
	<b><u>Finishing top surfaces of concrete smooth with a wood float by hand including saw cut joints at 3m centres in both directions</u></b>			
23	Paving, etc. to falls (LI)	m2	319	
	<b><u>Expansion joint</u></b>			
24	10mm Softboard in 80mm high expansion joint, including raking out joint 10mm deep and fill with approved Polysulphide	m	42	
	<b><u>REINFORCEMENT</u></b>			
	<b><u>(HAYLETT FORMULA WORK GROUP NO. 114)</u></b>			
	<b><u>Fabric reinforcement</u></b>			
25	Type 395 fabric reinforcement in concrete surface beds, slabs, etc(LI)	m2	319	
	<b><u>Kerbs</u></b>			
26	Figure 6 precast concrete kerbs in suitable lengths set flat including backfilling to back	m	13	
27	Figure 6 precast concrete kerbs in suitable lengths including 150 x 150mm concrete 15Mpa backing at all joints and backfilling to back	m	313	
28	Figure 6 precast concrete kerbs in suitable lengths circular on plan including 150 x 150mm concrete 15Mpa backing at all joints and backfilling to back	m	25	
	<b><u>Corobrik Roan Satin face bricks pointed with halfround ruled horizontal and vertical joints</u></b>			
29	Face brick-on-edge strip laid in cement dagha in top of concrete paving pointed on 230mm wide top, including forming nosing edge to concrete both sides	m	194	
	<b><u>(CPAP WORK GROUP NO. 104)</u></b>			
	<b>Carried to Collection</b>			R
	Bill No. 18 External Site Work (Provisional)			

**WALLS AND RETAINING WALLS**

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

30	Trenches (LI)	m3	44
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**Risk of collapse of excavations**

31	Sides of trench and hole excavations not exceeding 1,5m deep	m2	146
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**(CPAP WORK GROUP NO. 110)**

**Class 25MPa/19mm concrete**

32	Strip footings (LI)	m3	22
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**(CPAP WORK GROUP NO. 116)**

**Brickwork of NFP bricks in 1:5 cement mortar**

33	One brick walls	m2	146
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**Brickwork reinforcement**

34	150mm Wide galvanised reinforcement built in horizontally	m	585
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**Corobrik Roan Satin face bricks pointed with square recessed horizontal and flush vertical joints**

35	Extra over brickwork for face brickwork in stretcher bond	m2	146
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36	Face brick-on-edge coping pointed on both sides and 230mm wide top	m	146
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**(CPAP WORK GROUP NO. 136)**

**Steel Security spikes**

37	Approved steel security spikes on wall to Architects approval	m	7
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**Carried to Collection**

Bill No. 18  
 External Site Work (Provisional)

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**Lettering to School entrance**

38	Lettering to be in Helvetica Bold capital letters 280mm high, each letter to be cut out from 6 mm steel plate and to be fixed through one brick wall with three 10mm diameter steel rods welded to back and threaded on other end for bolting through one brick wall including holes through wall with nuts spot welded after fixing. Letters to projected 15mm from wall including tubular distance spacers around 10mm rods, with all letters on same plane and exact spacing to spell the wording MASHESHELENG PRIMARY SCHOOL, all painted with one coat zinc chromite primer, one universal undercoat and two full coats gloss enamel.			
		No	1	

**SECURITY FENCING**

**1800mm High fencing**

39	Fencing 1800mm high overall of four strands 4mm galvanised steel draw wire and three 1.6mm double strand galvanised steel barbed wire, with three barbs incorporated in twist every 150mm, tightly drawn and fixed to posts and straining eye bolts, covered with 50 x 50 x 2.5mm approved galvanised weldmesh, 1800mm high in long lengths without horizontal joints, tied with 2.5mm binding wire at 500mm centres to each strand of draw wire, including clearance and preparation of ground to a width of 1.0m			
		m	58	

40	50mm diameter x 2,8mm wall thickness hot-dip galvanised steel intermediate post 2 250mm long, five times drilled for straining wires including cast domed cap fixed in top and with 150 x 150 x 6mm thick flange plate welded on bottom end and embedded 500mm deep in concrete base (elsewhere measured)			
		No	19	

41	100mm Internal diameter x 3mm wall thickness hot dipped galvanised mild steel straining posts 2.28m long, holed for strand or bolts, with one end sealed off with 4mm thick galvanised head cap and the other end with 300 x 300 x 6mm thick base plate welded on			
		No	5	

**Carried to Collection**

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Bill No. 18  
External Site Work (Provisional)

42 Single Gate to detail size 1 000mm wide and 1800mm high formed of 50 mm diameter x 2,5 mm thick galvanised mild steel tubular frame, mitred and welded at angles and intersections and with one 50 mm diameter x 2,5 mm thick galvanised mild steel tubular diagonal brace welded to frame and covered with 3,15 mm diameter galvanised 50 x 50 mm welded mesh as before described securely bound to frame and brace with 2 mm diameter galvanised binding wire and supply gate, hang on two 20 mm diameter galvanised mild steel purpose-made adjustable hinges each 300 mm girth with one end threaded for and fitted with nut, locknut and washers and the other end forged around stile and welded together and with 10 mm diameter galvanised mild steel collar forged around and welded to stile above each hinge; fit gate with 10 mm galvanised mild steel semi-circular lock surround 300 mm girth with both ends welded to stile and with an approved 180 mm galvanised mild steel padbolt welded to stile

No 1

**"Cochrane ClearVu Invisible Wall" security fencing, gates, etc.**

43 Single Gate to detail size 1 500mm wide and 1800mm high formed of 50mm diameter x 2,5 mm thick galvanised mild steel tubular frame, mitred and welded at angles and intersections and with one 50 mm diameter x 2,5 mm thick galvanised mild steel tubular diagonal brace welded to frame and covered with 3,15 mm diameter galvanised 50 x 50 mm welded mesh as before described securely bound to frame and brace with 2 mm diameter galvanised binding wire and supply gate with approved galvanised security spikes to full width of gate fixed on top rail, hang on two 20 mm diameter galvanised mild steel purpose-made adjustable hinges each 300 mm girth with one end threaded for and fitted with nut, locknut and washers and the other end forged around stile and welded together and with 10 mm diameter galvanised mild steel collar forged around and welded to stile above each hinge; fit gate with 10 mm galvanised mild steel semi-circular lock surround 300 mm girth with both ends welded to stile and with an approved 180 mm galvanised mild steel padbolt welded to stile

No 1

**Unreinforced concrete 15MPa**

44 100 x 200mm Deep ground beam, projecting 50mm above ground level, finished smooth on all exposed faces and splayed top, including necessary excavation, backfilling, ramming and formwork

m 742

**Carried to Collection**

R

Bill No. 18  
 External Site Work (Provisional)

**WALKWAYS AND ASSEMBLY AREA**

**(CPAP WORK GROUP NO 104)**

**Excavations under pavings , etc by hand(LI)**

45	Open excavation (LI)	m3	201
46	Compaction of ground surface under pavings, etc. including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density (LI)	m2	1 033

**Wearing course (C4) 80 mm thick filling supplied and carted on by the Contractor, compacted in layers to 93% Mod. AASHTO density including tests as described**

47	Under pavings	m2	1 037
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**(CPAP WORK GROUP NO 110)**

**Unreinforced concrete**

**20MPa/19mm concrete placed by hand**

48	Surface beds, aprons, walkways, etc. (LI)	m3	66
49	150mm wide x 75mm thick thickening of edge of paving including formwork to edge 200mm high and additional excavations	m	464

**Finishing top surfaces of concrete smooth with a wood float by hand including saw cut joints at 3m centres in both directions**

50	Surface beds, aprons, walkways, etc. to falls (LI)	m2	657
51	Labour forming rounded edge to top of concrete paving edge	m	471

**Formwork to:**

52	Edges, risers, etc., not exceeding 150mm high or wide (LI)	m	523
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**REINFORCEMENT**

Carried to Collection

R

Bill No. 18  
 External Site Work (Provisional)

**(HAYLETT FORMULA WORK GROUP NO. 114)**

**Fabric reinforcement**

53	Type 395 fabric reinforcement in concrete surface beds, slabs, etc(LI)	m2	629
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**Corobrik Roan Satin face bricks pointed with halfround ruled horizontal and vertical joints**

54	Face brick-on-edge strip laid in cement dagha in top of concrete paving pointed on 220mm wide top, including forming nosing edge to concrete both sides	m	111
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**Paving**

**(CPAP WORK GROUP NO 104)**

**Excavations under pavings , etc by hand(LI)**

55	Open excavation (LI)	m3	47
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56	Compaction of ground surface under pavings, etc. including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density (LI)	m2	362
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**Wearing course (C4) 80 mm thick filling supplied and carted on by the Contractor, compacted in layers to 93% Mod. AASHTO density including tests as described**

57	Under pavings	m2	362
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**(CPAP GROUP NO. 110)**

**Paving**

58	60mm Thick standard clay paving bricks laid to falls in herringbone pattern, including all necessary square and raking cutting, infill areas and edges, etc., 25mm sand bed, approved weed killer at a rate of 50g/m <sup>2</sup> , clean sand swept into joints, compacted and cleaned.	m2	362
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**(CPAP WORK GROUP NO 152)**

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Bill No. 18  
 External Site Work (Provisional)

R

	<b><u>Prepare and paint two cots approved road marking paint</u></b>			
59	On paving blocks to form 600mm square blocks in alternatively black and white to form chess garden	No	64	
	<b><u>COVERED WALK WAY</u></b>			
	<b><u>(CPAP WORK GROUP NO. 104)</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep for by hand</u></b>			
60	Bases (LI)	m3	1	
	<b><u>Risk of collapse of excavations</u></b>			
61	Sides of trench and hole excavations not exceeding 1,5m deep	m2	19	
	<b><u>(CPAP WORK GROUP NO 110)</u></b>			
	<b><u>Class 20MPa/19mm concrete placed by hand</u></b>			
62	In bases (LI)	m3	1	
	<b><u>(CPAP WORK GROUP NO 136)</u></b>			
	<b><u>Steel work</u></b>			
63	75 x 75 x 3mm Rectangular hollow section welded framework	m	145	
64	60 x 40 x 2.5mm Rectangular hollow section welded purlins	m	140	
65	70 x 90 x 6mm angle section bracket once holed and welded on	No	108	
66	M10 expansion bolts bolted to brick wall including holes	No	24	
	<b><u>(CPAP WORK GROUP NO 124)</u></b>			
	<b>Carried to Collection</b>			R
	Bill No. 18			
	External Site Work (Provisional)			

	<b><u>Galvanised corrugated roof sheeting fixing to steel all strictly in accordance with the manufacturers instructions, including all straight cutting and waste, fasteners, clips, screws, nails, etc.</u></b>			
67	0.6mm roof sheeting fixed to steel purlins (elsewhere)	m2	114	
	<b><u>(CPAP WORK GROUP NO 152)</u></b>			
	<b><u>Prepare, touch up factory primer, paint one coat zinc chromate primer, one undercoat and two full coats high Plascon Vevaglo Polyurethane Enamel</u></b>			
68	On surfaces not exceeding 300mm girth	m	285	

Carried to Collection

R

Bill No. 18  
 External Site Work (Provisional)

Bill No. 18

External Site Work (Provisional)

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

83

84

85

86

87

88

89

90

91

92

93

**Carried to Summary**

R

Bill No. 18

External Site Work (Provisional)

Item  
No

Quantity Rate Amount

**(CPAP WORK GROUP NO. 146)**

**STORMWATER, SOIL DRAINAGE AND WATER SUPPLY**

**SUPPLEMENTARY PREAMBLES**

**Concrete pipes:**

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

**uPVC pipes and fittings:**

Soil, waste and vent pipes and fittings shall be solvent weld jointed

**uPVC pressure pipes and fittings:**

Pipes for water supply shall be of the class stated

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

**Copper pipes:**

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

**Carried to Collection**

R

Bill No. 19  
 External Plumbing & Drainage (Provisional)

**Fixing of pipes**

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

**Lead pipes and fittings**

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

**Reducing fittings**

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

**Wire gratings**

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

**Exposed concrete surfaces**

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

**Excavations**

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

Rock shall be as defined in "Earthworks"

**Laying, backfilling, bedding, etc. of pipes**

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

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Bill No. 19  
External Plumbing & Drainage (Provisional)

R

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:  
 SANS 1200 L : Medium-pressure pipelines  
 LD : Sewers  
 LE : Stormwater drainage  
 Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200  
 DB : Earthworks (Pipe trenches)  
 Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200  
 LB : Bedding (Pipes).  
 Unless otherwise described bedding of rigid pipes shall be class B bedding

NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density -----

**STORMWATER DRAINAGE**

1	Compaction by hand of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density(LI)	m2	448
<b><u>Wearing course (G5) 80 mm thick filling supplied and carted on by the Contractor, compacted in layers to 93% Mod. AASHTO density including tests as described</u></b>			
2	Under storm water channels	m2	607
<b><u>Class 25MPa/19mm mass concrete placed by hand in</u></b>			
3	Concrete open rainwater channel size 900mm wide x 200mm thick extreme with segmental channel 100mm deep formed therein including excavations and all necessary temporary formwork.(LI)	m	203
4	Concrete open rainwater channel size 1500 mm x 200mm thick extreme with segmental channel 100mm deep formed therein including excavations and all necessary temporary formwork. (LI)	m	190
5	Dished concrete open rainwater channel size 1500 mm x 100mm thick including excavations and all necessary temporary formwork. (LI)	m	218

**Carried to Collection**

R

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 External Plumbing & Drainage (Provisional)

6	Extra over 900mm wide stormwater channel for permanent formwork over for walkways (LI)	m2	13		
7	Extra over 1500mm wide stormwater channel for permanent formwork over for walkways (LI)	m2	7		
8	Extra over 900mm wide stormwater channel for angle or T intersection (LI)	No	12		
9	Extra over 900mm wide stormwater channel for outlet (LI)	No	5		
10	Extra over 1500mm wide stormwater channel for angle or T intersection (LI)	No	3		
11	Extra over 1500mm wide stormwater channel for outlet (LI)	No	4		
<b><u>THE FOLLOWING IN COLLECTION PIT</u></b>					
<b><u>(CPAP GROUP NO. 104)</u></b>					
<b><u>Excavation in earth by hand including dumping on site including spreading and leveling as directed for</u></b>					
12	Tank (LI)	m3	11		
<b><u>Extra over all excavations for carting away surplus material by hand within 100m</u></b>					
13	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m3	11		
<b><u>Risk of collapse of excavations</u></b>					
14	Sides of trench and hole excavations exceeding 1,5m deep	m2	14		
<b><u>Keeping excavations free of water</u></b>					
15	Keeping excavations free of all water other than subterranean water (LI)			Item	
<b>Carried to Collection</b>					
Bill No. 19					
External Plumbing & Drainage (Provisional)					
				R	

<b><u>Compaction</u></b>		
16	Compaction of ground surface by hand under floors, etc including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density (LI)	m2 10

**(CPAP WORK GROUP NO 110)**

**Reinforced Class 25/19 concrete in**

17	Floor slab	m3 2
18	Slabs	m3 2

**Finishing top surfaces of concrete smooth with a wood float**

19	Surface beds, slabs, etc	m2 10
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**(CPAP WORK GROUP NO 111)**

**Class F1 Ordinary Finish formwork to soffits of**

20	Slabs	m2 7
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**(CPAP WORK GROUP NO 114)**

**Reinforcement**

21	Mild steel reinforcement to structural concrete work	t 0.15
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**(CPAP WORK GROUP NO. 116)**

**Brickwork of NFX bricks (14 MPa nominal compressive strength)**

22	One brick walls in English bond	m2 9
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**(CPAP WORK GROUP NO. 146)**

**SOIL DRAINAGE**

Carried to Collection

Bill No. 19  
 External Plumbing & Drainage (Provisional)

R

**uPVC pipes**

NOTE: All trenches to be 600mm wider than the diameter of the pipe. Bedding of the pipe must be stone free sand and compacted to 90% MOD AASTO and 100mm deep plus half the diameter of pipe and covered with stone free material and compacted up to 300mm above pipe

23	110mm pipes vertically or ramped to cleaning eyes etc (no excavation)	m	5
24	110mm pipes laid in and including trenches not exceeding 1m deep (LI)	m	55
25	160mm pipes vertically or ramped to cleaning eyes etc (no excavation) (LI)	m	4
26	160mm pipes laid in and including trenches not exceeding 1m deep (LI)	m	193
27	160mm pipes laid in and including trenches exceeding 1m and not exceeding 2m deep (LI)	m	107
28	160mm pipes laid in and including trenches exceeding 2m and not exceeding 2,5m deep (LI)	m	21

**Extra over uPVC pipes for fittings**

29	110mm bend	No	18
30	160mm junction	No	14
31	110mm access bend	No	13
32	110mm access junction	No	16
33	160mm bend	No	24
34	160mm junction	No	15
35	160mm access bend	No	8
36	160mm access junction	No	3
37	160mm access stop end	No	3

**Carried to Collection**

Bill No. 19  
External Plumbing & Drainage (Provisional)

R

**uPVC gulleys**

38 110mm Dished gulley not exceeding 500mm deep including concrete hopper head and removeble strainer basket

No 10

**Inspection chambers including cast iron covers, R12 reinforcing bars to slabs at 150 mm centres in both directions**

39 Inspection chamber 600 x 900mm and not exceeding 750mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 2

40 Inspection chamber 600 x 900mm and not exceeding 1000mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 2

41 Inspection chamber 600 x 900mm and not exceeding 1200mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 3

42 Inspection chamber 600 x 900mm and not exceeding 1400mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 3

43 Inspection chamber 600 x 900mm and not exceeding 1600mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 1

44 Inspection chamber 600 x 900mm and not exceeding 1800mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 1

45 Inspection chamber 600 x 900mm and not exceeding 2 000mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.

No 1

**Carried to Collection**

R

Bill No. 19  
External Plumbing & Drainage (Provisional)

46	Inspection chamber 600 x 900mm and not exceeding 200mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.	No	1
47	Inspection chamber 600 x 900mm and not exceeding 500mm deep internally as described including 450 x 600mm cast iron single seal manhole cover and frame and all excavations, etc.	No	1
<b><u>Sundries</u></b>			
48	Unreinforced concrete encasing to 110mm vertical pipe	m	3
49	Extra over trench excavation for removing class B boulders	m3	36
50	Testing drainage pipe system		Item
<b><u>THE FOLLOWING IN SEPTIC TANK, FAT TRAP AND SUB SOIL DRAINS</u></b>			
<b><u>(CPAP WORK GROUP NO. 104)</u></b>			
<b><u>Excavation in earth by hand including dumping on site including spreading and leveling as directed for</u></b>			
51	Septic tank (LI)	m3	3
<b><u>Extra over all excavations for carting away</u></b>			
52	Surplus material from excavations to within 100m (LI)	m3	39
<b><u>Risk of collapse of excavations</u></b>			
53	Sides of trench and hole excavations exceeding 1,5m deep	m2	8
<b><u>Keeping excavations free of water</u></b>			
54	Keeping excavations free of all water by hand other than subterranean water (LI)		Item

**Carried to Collection**

Bill No. 19  
External Plumbing & Drainage (Provisional)

R

<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u></b>		
55	Backfilling to trenches, holes, etc. by hand.(LI)	m3 122
<b><u>(CPAP WORK GROUP NO. 116)</u></b>		
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in foundations</u></b>		
56	Half brick wall	m2 1
57	One brick walls in English bond	m2 5
<b><u>(CPAP WORK GROUP NO. 142)</u></b>		
<b><u>Cement plaster on brickwork with Coprox or equal approved waterproof additive added at rate of 10%</u></b>		
58	On walls	m2 5
<b><u>(CPAP WORK GROUP NO. 146)</u></b>		
<b><u>Rocla or equal approved concrete pipes</u></b>		
59	750mm diameter x 330mm high manhole shaft	No 3
<b><u>uPVC pipes</u></b>		
60	110mm pipes	m 10
61	Extra for 100mm junction	m 6
<b><u>Sub-soil drain</u></b>		
62	110mm uPVC slotted drainage pipe laid in and including trench 600mm wide x 1500mm deep backfilled with approved stone filling, gravel filling and river sand filling all 1200mm high and final layer of excavated material and covered with corrugated sheet iron	m 54
<b><u>"Herbish" or equal approved</u></b>		
63	"Hb GT 2l/sec" Stainless steel grease trap	No 1

Carried to Collection

R

Bill No. 19  
 External Plumbing & Drainage (Provisional)

**MANHOLE COVERS, ETC**

64	450 x 600mm cast iron single seal manhole cover and frame, with frame bedded in 3:1 cement mortar and cover sealed in tallow	No	2
65	750mm diameter cast iron single seal manhole cover and frame, with frame bedded in 3:1 cement mortar and cover sealed	No	3

**(CPAP WORK GROUP NO. 148)**

**WATER SUPPLIES**

**Galvanised steel pipes**

66	15mm Pipes	m	12
67	50mm Pipes	m	26

**Extra over galvanised steel pipes for steel fittings**

68	15mm Fittings	No	14
69	50mm Bends	No	6
70	50mm Tee	No	4

**High density polyethylene Class 10 pressure pipes**

71	25mm pipes laid in and including trenches (LI)	m	59
72	50mm pipes laid in and including trenches (LI)	m	416

**Extra for PVC M fittings**

73	25mm Bend	No	8
74	50mm Bend	No	11
75	50mm Tee	No	4
76	50mm Reducing tee	No	23

**Taps and valves**

77	15mm Bibcock with hose union	No	2
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Carried to Collection

R

Bill No. 19  
 External Plumbing & Drainage (Provisional)

78	15mm Brass gate valve	No	1
79	15mm Bibcock with wall plate plugged to wall and with hose union	No	6
80	15mm CP demand tap Cobra KM2 102	No	3
81	50mm SANS approved Non-return valve	No	3
82	50mm SG Iron gate valve Class 10 to SANS 644 cap top and non rising spindles	No	12
83	50mm SANS approved water meter	No	1
<b><u>Sundries</u></b>			
84	450 x 450mm cast iron stopcock box including brick chamber below not exceeding 500mm deep internally	No	4
85	Search for and connect into existing water main, including all fittings	No	1
86	1,5m High galvanised steel stand pipe including 100 x 100mm class 20MPa mass concrete pipe surround	No	2
<b><u>Drinking fountain frame</u></b>			
87	100 x 50x 11mm Galvanised mild steel channel in drinking fountain frame work	m	4
88	Extra for welded angle	No	2
89	Extra for 15mm diameter holes through channel	No	4
90	15 Mpa concrete In base, size 450 x 450 x 450mm deep including formwork, excavations, etc.	No	2
<b><u>RAINWATER TANKS, ETC.</u></b>			
<b><u>The following in rain water tanks and stands</u></b>			
91	Excavation by hand not exceeding 2 m deep in trenches(LI)	m3	9
92	Risk of collapse of excavations not exceeding 1.5m	m2	31
93	Backfilling to trenches, holes, etc. by hand(LI)	m3	4

**Carried to Collection**

**R**

Bill No. 19  
External Plumbing & Drainage (Provisional)

94	Class 15MPa/19mm Concrete in strip footings placed by hand(LI)	m3	4	
95	Class 15MPa/19mm Concrete in slabs placed by hand(LI)	m3	2	
96	Finishing top surfaces of concrete by hand smooth with wood float(LI)	m2	19	
97	Type 193 mesh reinforcement in concrete surface beds	m2	19	
98	One brick walls	m2	27	
99	Extra over brickwork for Corobrik Roman Satin face bricks pointed with recessed horizontal and vertical joints	m2	23	
100	5000 Litre Polyethylene water tanks with 35mm diameter inlet at top and 50mm overflow outlet and 25mm outlet with tap at base of tank including access hatch on top fitted with vermin-proof vent.	No	6	
101	15mm Brass lockable stopcock fitted to polyethylene tank including 100mm long brass running nipple and backnuts, galvanised socket and all necessary packing, rubber insertion, etc. and holing tank	No	6	
102	Pulsar Black box water level controller fitted to polyurethane water tanks, including water panel installed in classroom, complete strictly in accordance with the manufacturers instructions.	No	3	
<b><u>THE FOLLOWING IN ELEVATED STEEL TANK AND STAND</u></b>				
<b><u>(CPAP WORK GROUP 104)</u></b>				
<b><u>Excavation in earth not exceeding 2m deep:</u></b>				
103	Bases	m3	49	
<b><u>Extra over trench and hole excavations for excavation in</u></b>				
104	Soft rock	m3	6	
105	Hard rock	m3	3	
<b>Carried to Collection</b>				R
Bill No. 19 External Plumbing & Drainage (Provisional)				

	<b><u>Risk of collapse of excavations</u></b>			
106	Sides of trench and hole excavations exceeding 1,5m deep	m2	78	
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>			
107	Under floors, steps, pavings, etc (LI)	m3	30	
	<b><u>Extra over all excavations for carting away</u></b>			
108	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m3	19	
	<b><u>(CPAP WORK GROUP 110)</u></b>			
	<b><u>Class 15/19 Un-reinforced concrete</u></b>			
109	Bilinding	m3	2	
	<b><u>Class 25/19 Reinforced concrete</u></b>			
110	Bases	m3	19	
111	Stub columns	m3	3	
	<b><u>(CPAP WORK GROUP 111)</u></b>			
	<b><u>Rough formwork to sides</u></b>			
112	Stub columns	m2	17	
	<b><u>(CPAP WORK GROUP 114)</u></b>			
	<b><u>High yield stress steel reinforcement to structural concrete work:</u></b>			
113	Bars in various diameters	t	2.17	
	<b><u>(CPAP WORK GROUP 146)</u></b>			
	<b>Carried to Collection</b>			R
	Bill No. 19			
	External Plumbing & Drainage (Provisional)			





Item No		Quantity	Rate	Amount
	<b><u>EXTERNAL ELECTRICAL</u></b>			
	<b><u>(CPAP WORK GROUP NO. 162)</u></b>			
	<b><u>MV RETICULATION</u></b>			
1	Supply and Install 100kVA 11kV/400V transformer complete with structures and poles. Supply and install fox conductor ACSR	No	1	
2	Supply and install pole mount meter kiosk for the transformer above	No	1	
	<b><u>LV RETICULATION</u></b>			
	Distribution Kiosk, 3CR12, Power coated, plinth mounted complete with equipment as specified			
3	Main Kiosk	No	1	
4	25 Mpa Plinth to suit kiosk	No	1	
	<b><u>Trenching by hand</u></b>			
	Excavating, bedding, backfilling and compacting as specified (LI)			
5	In earth	m3	249	
6	Extra for excavating in intermediate material(LI)	m3	80	
7	Extra for excavating in hard rock(LI)	m3	25	
8	Backfilling and compacting(LI)	m3	221	
9	110mm diameter PVC sleeves for road crossings/cable entries into the buildings, including for galvanised steel draw wires in sleeves and sealing of ends	m	262	
10	Cable warning tape above cables	m	262	
11	Cable markers	No	5	
	<b>Carried to Collection</b>			R
	Bill No. 20 External Electrical Work (Provisional)			

<b><u>600/1000V PVC SWA cables, in trenches and sleeves, including labels</u></b>			
12	25mm <sup>2</sup> 4 core	m	105
13	16mm <sup>2</sup> 2 core	m	266
14	10mm <sup>2</sup> 2 core	m	275
15	6mm <sup>2</sup> 2 core	m	71
<b><u>600/1000V Cable terminations for PVC, SWA PVC Cu cables</u></b>			
16	Gland no 4 complete with shroud	No	2
17	Gland no 3 complete with shroud	No	12
18	Gland no 2 complete with shroud	No	8
<b><u>Earth conductores (HDHC), including ends</u></b>			
19	16mm <sup>2</sup>	m	55
20	10mm <sup>2</sup>	m	406
21	6mm <sup>2</sup>	m	345
22	4mm <sup>2</sup>	m	50
23	Testing of section approved by the Engineer, including all equipment, power generator, etc.		Item
<b><u>Area Lighting</u></b>			
24	3.0m Fibreglass Street poles complete with circuit breakers and accessories	No	4
25	Supply and install 26W CFL TYPE E Pesseus from Genlux Fittings complete with Lamps in each pole above	No	4
26	Supply and install 4mm 2core swa cable 600/1000V PVC for Streetlights	m	180
27	Supply and install 2.5mm Bare Copper Earth Wire for Streetlights	m	154
28	Supply and install Terminations for above cable	No	6
<b>Carried to Collection</b>			
Bill No. 20 External Electrical Work (Provisional)			R

29 Supply and install Electrical Danger Tape

m

80

**Carried to Collection**

Bill No. 20  
External Electrical Work (Provisional)

R

Bill No. 20

External Electrical Work (Provisional)

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

110

111

112

**Carried to Summary**

R

Bill No. 20

External Electrical Work (Provisional)

<b>Bill No</b>	<b><u>FINAL SUMMARY</u></b>	<b>Page No</b>	<b>Amount</b>
1	Preliminaries	18	
2	Renovations (Provisional)	21	
3	Concrete, Formwork and Reinforcement	24	
4	Masonry	27	
5	Waterproofing	28	
6	Roof Coverings	29	
7	Carpentry and Joinery	41	
8	Ceilings, partitions and Access Flooring	44	
9	Floor Coverings, Plastic Linings, etc.	45	
10	Ironmongery	51	
11	Metalwork	55	
12	Plastering	58	
13	Tiling	59	
14	Plumbing and Drainage (Provisional)	68	
15	Electrical Installation (Provisional)	76	
16	Glazing	77	
17	Paintwork	82	
18	External Site Work (Provisional)	94	
19	External Plumbing & Drainage (Provisional)	109	
20	External Electrical Work (Provisional)	113	
	<b>SUB-TOTAL</b>		R
	<b>ADD: 15% VALLUE-ADDED TAX</b>		R
	<b>Carried to Form of Tender</b>		R

