

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

BOOK 2 of 3

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE
SCHOOLS: HYMAN (070341), LUCAS MEMORIAL (070345), MANDLENDODA
(070342), GOBUME (070344) & KWAPHUZA (070343)**

EYESIZWE TENDER CONTRACT

UGU DISTRICT MUNICIPALITY

Engineer/Principal Agent

Eyethu Engineers (Pty) Ltd.
P.O.Box 13829
Cascades
Pietermaritzburg
3201
033 347 0363

aveshg@eyethu.co.za

Engineer/Principal Agent

Avesh Girdhary
P.O.Box 13829
Pietermaritzburg
3201

033 347 0363

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
X9041
Pietermaritzburg
3200
Tel Number: 033 897 1430
Fax Number: 033 897 1399

Tender Number: ZNTM01078W
CIDB Grading: 4GB OR HIGHER
ECDP Number:

Project Code: 070341 to 070345
Document Date: As Per Tender Advert

Contracting Party: _____
CIDB Registration number: _____
Central Suppliers Database Registration Number: _____

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN
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KWAZULU-NATAL PROVINCE
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REPUBLIC OF SOUTH AFRICA

THE TENDER

BOOK 1 OF 3

1. PART T1: TENDER PROCEDURES	Page No.
T1.1 Tender Notice and Invitation to Tender	8-12
PA-04.1 Summary of Tender Opening	13
T1.2 Tender Data	14-18
T1.3 Annexure C - Standard Conditions of Tender	19-28
2. PART T2: RETURNABLE DOCUMENTS	
T2.1 List of Returnable Documents	1-3
T2.2 Authority to Sign Tender (T2.2)	4
T2.3 Authority for Consortia or Joint Venture's to Sign Tender (T2.3)	5-6
T2.4 Special Resolution of Consortia or Joint Venture's (T2.4)	7-8
T2.5 Joint Venture Involvement Declaration (T2.5)	9-10
T2.6 Schedule of Proposed Sub-Contractors (T2.6)	11
T2.7 Capacity of Tenderer (T2.7)	12-16
T2.8 Financial Standing and other resources of Business Declaration (T2.8)	17
T2.9 Preference Points Claim Form (T2.9)	18-19
T2.10 Site Inspection Certificate as proof for attendance of compulsory briefing meeting (T2.10)	20
T2.11 Bidder's Disclosure - SBD 4 (T2.11)	21-22
T2.12 Record of Addenda to Tender Documents (T2.12)	23
T2.13 Particulars of Electrical Contractor (T2.13)	24
T2.14 Schedule of Imported Materials and Equipment (T2.14)	25
T2.15a Annual Financial Statement for past financial year (2.15)	26
T2.16 Equipment Schedules (T2.16)	27-31
T2.17 Contractor's Safety, Health and Environmental Declaration (T2.17)	32
T2.18 Compulsory Enterprise Questionnaire (T2.18)	33
T2.19 Tax Compliance Status (TCS) PIN to verify on line Compliance Supplier Status via e-Filing (T2.19)	34
T2.20 Proof of Good Standing With the Compensation Commissioner (T2.20)	35
T2.21 Form of Offer and Acceptance (Bound into Section 1 of 2) (T2.21)	36-38
T2.21a Confirm Receipt of Offer and Acceptance (T2.21a)	39
T2.22 Final Bill of Quantity (T2.22)	40
T2.23 Certified Proof of Paid Municipal Rates and Taxes - (Attach) (T2.23)	41
T2.24 Proof of Unemployment Insurance Fund (2.24)	42
T2.25 The National Industrial Participation Programme (T2.25)	43-44
T2.26 Proof of Registration on the Central Supplier Database (CSD) (T2.26)	45
T2.27 Certified Proof of CIDB Registration Number (T2.27)	46
T2.28 Proof of Deposit (T2.28)	47
T2.29 Contract Form - Purchase of Goods/Works - Part 1 (T2.29)	48
T2.30 Contract Form - Purchase of Goods/Works - Part 2 (T2.30)	49
T2.31 OHSE Plan Structure (T2.31)	50
T2.32 Client's specific requirements for the Contractor's detailed OHSE Plan (T2.32)	51
T2.33 Baseline Risk Assessment (T2.33)	52
T2.34 Invitation to Tender - SBD 1 (T2.34)	53-54
T2.35 Proof of Working Capital (T2.35)	55

T2.36	Letters of Credit Reference (T2.36)	56
T2.37	Project Specific Organogram (T2.37)	57
T2.38	CV's of Personnel (T2.38)	58
T2.39	Schedule of Projects (T2.39)	59
T2.40	Letter of Intent To Provide a Construction Guarantee	60

THE CONTRACT

BOOK 2 OF 3 (THIS BOOK)

3. PART C1: AGREEMENT AND CONTRACT DATA

C1.1	Form of Offer and Acceptance	8
C1.2	Contract Data	9-17
C1.3	Form of Guarantee (C1.3)	18-20

4. PART C2: PRICING DATA

C2.1	Pricing Instructions	2-5
C2.2	Preliminaries for GCC 2010	6-24
C2.3	Bills of Quantities	1-179

5. PART C3: SCOPE OF WORKS

C3.1	Scope of Works	1-14
C3.2	Specification for HIV/AIDS awareness	15-16
C3.3	HIV/STI Compliance report	17-18

6. PART C4: SITE INFORMATION

C4.1	Site Information	2-6
------	------------------	-----

BOOK 3 OF 3

7. DRAWINGS

C5.1	List of Drawings	5-7
------	------------------	-----

8. ANNEXURES

Annexure 1	Standard Preambles for all Traders (Rev 3) - DOH 2009	1-95
Annexure 2	General Electrical Specifications	E/1-E/20
Annexure 3	Lightning Protection Specifications	LP/1-LP/6
Annexure 4	Map of Tender submission location	1
Annexure 5	Joint Venture Agreement	1-6
Annexure 6	Health and Safety Specification	2
Annexure 7	Health and Safety Bill of Quantities	1-2
Annexure 8	Builders Lien Agreement	1
Annexure 9	EPWP Additional Specification	1-11
Annexure 10	EPWP BOQ	1-2

Annexure 11	EPWP Scope of Works	1-5
Annexure 12	EPWP Employment Contract	1-9
Annexure 13	Attendance Register - Infrastructure and Other projects	1
Annexure 14	EPWP Data Collection tool for Phase 3 system	1-5

IMPORTANT NOTICE TO TENDERERS

"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.

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

No alternative Tenders will be accepted.

The Department reserves the right not to award to the lowest bidder.

In addition, the Department will conduct a detailed risk assessment prior to the award of the bid.

Tender Documents must be purchased prior or downloaded from e-Tender Portal before the starting time of tender briefing meeting.

The bid document can be downloaded from e-Tender Portal at no cost. However should any bidder require a printed/hard copy of the bid document, a non-refundable payment in the amount of R330.00 must be made for collection thereof as per the banking details indicated below. Proof of payment must be produced upon collection of the bid document.

No tender documents will be issued at the tender briefing meeting and no site inspection meeting certificates will be issued at the tender briefing meeting.

Bidders who attend without a bid document will not be allowed at the briefing meeting.

Late submissions will not be accepted.

Faxed or e-mailed bids are not accepted.

Multiple Award of Bids will be limited (unless by exception due to circumstances) in order to spread the work amongst many successful bidders and to minimise the risk to the Department. Multiple awards shall be limited to the ceiling value of the applicable CIDB grading of the recommended bidder unless previous contracts awarded has been more than 60% completed in terms of the actual scope of the contract and time expended are within the allocated time lines of the contract period of the contract with specific reference to the activity based construction program and concise demonstration has been given that the bidder has the capability and resources to complete the project successfully.

Proof of working capital of at least 2.5% of the project value from a registered financial institute or an original 3 months bank statement, stamped by the bank.

Schedule of projects of similar value and nature, within 3GB or higher, completed within the last 5 years by the bidding entity. Provide project name; description; value and duration (start & completion dates). Letters of award and practical completion certificates for projects must be submitted. (Minimum two projects required)

Only Bidders registered within the applicable CIDB grading and Central Suppliers Database will be eligible to submit bids.

This bid is specifically targeted for contracting entities that are currently on the Eyesizwe Contractor Database and whom have applied to be registered on the Eyesizwe Contractor's Database, are eligible to submit bids.

The Preference points system is applicable for this bid is 80/20, where 20 points of specific goals will be allocated as follows:

- Ownership by People who are Youth: 10 Points**
- Ownership by People who are Women: 10 Points**
- Promotion of enterprises located in a specific municipal area for work to be done or services to be rendered (Ugu District Municipality): 05 points**



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THE CONTRACT



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C1 - AGREEMENT AND CONTRACT DATA



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FORM OF OFFER AND ACCEPTANCE

FORM OF OFFER AND ACCEPTANCE

Tender No - ZNTM01078W



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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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C1.2 - CONTRACT DATA

C 1.2 CONTRACT DATA: with GCC for Construction Works - Second Edition 2010	
CONTRACT DATA FOR: SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION - CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN (070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) & KWAPHUZA (070343)	
Tender no:	ZNTM01078W
	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 www.saice.org.za.
	CONTRACT SPECIFIC DATA The following contract specific data are applicable to this contract:
	CONTRACT VARIABLES 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. 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.
Part 1: CONTRACT DATA PROVIDED BY THE EMPLOYER:	
PRE-TENDER INFORMATION	
CONTRACTING AND OTHER PARTIES	
[1.1.1.15]	Employer: Head: Public Works (KZN Department of Public Works: Province of KwaZulu-Natal) Postal address: Private Bag X 9041 PIETERMARITZBURG 3200 Tel: 033 - 8971399 Fax: 033 - 8971300
[1.2.1.2]	Physical address: 191 Prince Alfred Street PIETERMARITZBURG 3200
[1.1.1.16]	Employers Agent 1 Avesh Girdhary Agent's service: Engineer/Principal Agent Postal address: P.O.Box 13829 Pietermaritzburg 3201 Tel: 033 347 0363 Fax:
	Employers Agent 2 Eyethu Engineers (Pty) Ltd. Agent's service: Engineer/Principal Agent Postal address: P.O.Box 13829 Pietermaritzburg 3201 Tel: 033 347 0363 Fax:
	Employers Agent 3 Avesh Girdhary Agent's service: Engineer/Principal Agent Postal address: P.O.Box 13829 Pietermaritzburg 3201 Tel: 033 347 0363 Fax:
	Employers Agent 4 Avesh Girdhary Agent's service: Engineer/Principal Agent Postal address: P.O.Box 13829 Pietermaritzburg 3201 Tel: 033 347 0363 Fax:

Tender no: ZNTM01078W	
Employers Agent 5 Avesh Girdhary Agent's service: Engineer/Principal Agent Postal address: P.O.Box 13829 Pietermaritzburg 3201 Tel: insert 033 347 0363 Fax:	
Employers Agent 6 [Agents Name] Agent's service: [Identify Agent's Service, eg. Engineer] Postal address: [P.O. Box number] [Name of town] [Code] Tel: insert [Tel Number including Area Code] Fax: [Fax Number including Area Code]	
Employers Agent 7 [Agents Name] Agent's service: [Identify Agent's Service, eg. Engineer] Postal address: [P.O. Box number] [Name of town] [Code] Tel: insert [Tel Number including Area Code] Fax: [Fax Number including Area Code]	
Employers Agent 8 [Agents Name] Agent's service: [Identify Agent's Service, eg. Engineer] Postal address: [P.O. Box number] [Name of town] [Code] Tel: insert [Tel Number including Area Code] Fax: [Fax Number including Area Code]	
PART 1: DATA PROVIDED BY THE EMPLOYER	
[1.1.1.13]	Defects Liability Period The defects liability period is: A time measured from the date of the Certificate of Completion. Defects Liability Period is 12 Months for the whole of the Works
Latent Defect Period	
[5.16.3]	The latent defect period is: 5 years after the Final Approval Certificate
Documentation required before Commencement of the Works:	
[5.3.1]	The documentation required before commencement with the Works execution are
[4.3]	Health and Safety Plan The Contractor shall deliver his Health and Safety Plan of the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.
[5.6]	Initial Programme The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date.
[6.2]	Guarantee The Contractor shall deliver his chosen Guarantee (security) for this Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.
[8.6]	Insurance The Contractor shall deliver his insurance for the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.
	Cash flow by contractor The Contractor shall deliver his Cash flow for the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.
	Priced Bill of Quantity The Contractor shall deliver his Priced Bill of Quantity within 14 calendar days after notice from the Employer, prior to the Commencement Date.
	Programme The Contractor is required to submit his Programme of Works in terms of Clause 5.6.1 and 5.3.1 and the Principal Agent is required to approve this within 7 days in terms of Clause 5.6.3
	Other requirements
[5.3.2]	The time to submit the documentation required before commencement with Works execution is: 14 calendar days

	Non-Working days												
[5.8.1]	Non-Working days	Sundays											
	Special non- working days	All Nationally Recognized Public Holidays and the year end break											
[5.8.1]	First Year end break - commences	16-Dec-23											
	ends on	08-Jan-24											
	Second Year end break - commences	N/A											
	ends on	N/A											
	Third Year end break - commences	N/A											
	ends on	N/A											
	Fourth Year end break - commences	N/A											
	ends on	N/A											
	Engineer/Principal Agent to consult with Employer												
[3.1.3]	The Engineer shall obtain the specific approval from the Employer before executing any of his functions according to the "Conditions under which Consultants are appointed", or in the event where an employee of the Employer represents the Employer, the relevant General Delegations applicable at the time of executing his/her duties.												
	Security												
[6.2.1]	The time to deliver the deed of guarantee is Prior to site hand over in terms of clause 5.3.1 and 5.3.2.												
[6.2.1]	Please see CONTRACT DATA - below to select Guarantee Option												
	Commencement Date												
	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.												
	<i>The Agreement comes into effect on the date when;</i> <i>The tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any)</i> <i>The agreement ("this document") consists of;</i> 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. <i>(See Form of Offer and Acceptance)</i>												
[5.3.1]	The contractor shall commence executing the Works within 7 calendar days from the Commencement Date.												
[5.4.1]	Possession of the site 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.												
	CONTRACT DETAILS												
[1.1.1.33]	Works description: Refer to document C3 – Scope of Work.												
[1.1.1.30]	Site description: Refer to document C4 – Site Information.												
	Specific options that are applicable to a State organ only Where so :												
[6.10.6.2]	1) Interest rate legislation: (a) in respect of interest owed <u>by</u> 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 (b) in respect of interest owed <u>to</u> 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 2) Lateral support insurance to be effected by the contractor: <table border="1"> <tr> <td>Yes</td> <td>X</td> <td>No</td> </tr> </table> 3) Payment will be made for materials and goods <table border="1"> <tr> <td>Yes</td> <td>X</td> <td>No</td> </tr> </table> 4) Dispute resolution by litigation <table border="1"> <tr> <td>Yes</td> <td></td> <td>No</td> <td>X</td> </tr> </table> 5) Extended defects liability period applicable to the following elements: <table border="1"> <tr> <td>Electrical, Mechanical and Civil work</td> </tr> </table>		Yes	X	No	Yes	X	No	Yes		No	X	Electrical, Mechanical and Civil work
Yes	X	No											
Yes	X	No											
Yes		No	X										
Electrical, Mechanical and Civil work													
[8.6.1.1.2]	The Value of material, supplied by the Employer, and not included in the Contract Price, is:	R0.00											
[8.6.1.1.3]	The amount to cover Professional Fees, not included in the Contract Price, for repairing damage and loss to be included in the insurance: 30% of the Contract Price												
[8.6.1.3]	The limit for indemnity for liable insurance is:	Unlimited											
[6.5.1.2.3]	The percentage allowance to cover overhead charges for contractor and subcontractors, is:	33.30%											
[1.1.1.14]	Practical Completion Date												
	The Practical Completion date is: A time measured from the Commencement date.												
	For the works as a whole: The whole of the works shall be completed within:	6 Months (which shall be deemed to include all Non – Working Days, Special Non – Working Days and the year-end Builders Annual Industry Holiday Periods).											
[5.5.1]	The date for practical completion shall be	To be determined											
[5.13.1]	The penalty per calendar day shall be :	0.04% of the Contract Price, rounded to the nearest R10											

	For the works in sections: The date for practical completion from the commencement date and the penalty per calendar day: Portion 1: 6 Calendar Months 0.04% of the Contract Price, rounded to the nearest R10 Portion 2: N/A 0.04% of the Contract Price, rounded to the nearest R10 Portion 3: N/A 0.04% of the Contract Price, rounded to the nearest R10 Portion 4: N/A 0.04% of the Contract Price, rounded to the nearest R10 Portion 5: N/A 0.04% of the Contract Price, rounded to the nearest R10 Portion 6: N/A 0.04% of the Contract Price, rounded to the nearest R10 The law applicable to this agreement shall be that of the: Republic of South Africa The percentage advance on materials not yet built into the Permanent Works is: 80.00% Percentage retention on amounts due to contractor is: 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. Maximum retention is: 0.00% of the Contract Price Notwithstanding anything to the contrary contained in the General conditions of Contract and Preliminaries, this contract could only, when the <u>construction period exceeds 6 months and the contract exceeds R1,000,000.00</u>, be subject to a Contract Price Adjustment Factor. 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." 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. The following clause must be added to clause 5.14.5: [5.14.5.6] The employers agent shall submit the final account within 3 calendar months to the principal agent. The determinations of disputes shall be by ARBITRATION ONLY. The number of Adjudication Board Members to be appointed is: One 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." 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: 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. 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. 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. Alternative Indices: Not Applicable Details of changes made to the General Conditions of Contract for construction works (2010) Second Edition
[1.1]	Clause [1.1.1.5] COMMENCEMENT DATE – means the actual date of Site Hand over that should not occur prior to the Tenderer receiving one fully signed copy of the Offer and Acceptance in terms of the Form of Offer and Acceptance. [5.12.2.2] ABNORMAL CLIMATIC CONDITIONS - means conditions over and above what could reasonably be expected for the specific locality where the Works are being executed and include inter alia excessive rain, heat, cold, wind and any other climatic condition that would not normally be experienced during the season that the Works are executed in that area. The South African Weather Service's (http://www.weathersa.co.za) 10 year average climatic conditions statistics would be what could be reasonably expected for the specific locality where the Works are executed. [6.2.1] CONSTRUCTION GUARANTEE – means an on demand guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the Offer and Acceptance Form and the contract data. CONSTRUCTION PERIOD – means the period commencing on the commencement date and ending on the date of due completion date. This period will be deemed to commence on actual site hand over date to the contractor and end on the date of practical completion and shall include all annual industrial holiday periods, Sundays and public holidays. CORRUPT PRACTICE – means the offer, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. FINAL ACCOUNT - The document prepared by the principal agent, which reflects the contract value of the works at final approval or termination.

	FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practise among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.
	INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular: (a) in respect of interest owed by the 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 (b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply
	[1.1.1.16] ENGINEER/PRINCIPAL AGENT – 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) [1.1.1.21] GENERAL ITEMS - or preliminaries means items stipulated in the Pricing Data relating to general obligations, site services, facilities and/or items that cover elements of the cost of the work which are not considered as proportional to the quantities of the Permanent Works.
	[4.4.1] Add the following to the clause 4.4.1: <i>"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"</i>
	[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 <i>"at the prime overdraft rate, as charged by the Contractor's Bank,"</i> with <i>"..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)";</i> Omit <i>"on all overdue payments from the date on which the same should have been paid..."</i> and replace with <i>" only after 30 calendar days from receiving written notice from the Contractor that the amount is overdue..."</i>
[5.12.3]	SPECIAL CONDITIONS OF CONTRACT Omit clause 5.12.3 and add the following: <i>"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;</i> <i>5.12.3.1 Failure to give possession of the site to the contractor.</i> <i>5.12.3.2 Making good physical loss and repairing damage to the works where the contractor is not at risk.</i> <i>5.12.3.3 Contract instructions not occasioned by default by the contractor.</i> <i>5.12.3.4 Failure to issue construction information timeously or the late issue of a contract instruction following a request from the contractor.</i> <i>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.</i> <i>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.</i> <i>5.12.3.7 Insolvency of a nominated subcontractor.</i> <i>5.12.3.8 A direct contractor.</i> <i>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.</i> <i>5.12.3.10 The execution of additional work for which the quantity included in the bills of quantities is not sufficiently accurate.</i> <i>5.12.3.11 Late or failure to supply materials and goods for which the employer is responsible.</i> <i>5.12.3.12 Suspension of the works."</i>
[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 <i>"..it shall be deemed that the Contractor has selected a security of ten percent retention of the value of the Works."</i> with <i>"..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."</i>
[6.2.3]	Add to clause 6.2.3 the following <i>"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."</i>
[9.3.2.2]	Omit <i>"without prejudice to the exercise of any lien the Contractor may have acquired over the Employer's property."</i> Duties and functions of the Engineer requiring the specific approval of the Employer BEFORE execution of any part of these duties are as follows: (a) Determinations of contractors claims for extension of time (revision of the contract completion date). All claims for extension of time shall be submitted by the Engineer , together with the Engineer's recommendations, to the Employer for determination. Omit "Engineer" in clause 42.2 and replace with (b) 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 . (c) Insurance policies to be approved by the Employer within 21 days of the date of the Commencement of the Works. (d) 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. (e) 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 (a) The Contractor shall co-ordinate his programme with all other contractors whose work may precede or be executed simultaneously to his own. The Contractor will be called upon to plan and control the project using the Project Evaluation and Review Technique (PERT) or other approved Critical Path Method (CPM) network analysis of his events and activities and those of the sub-contractors in his employ and must co-ordinate his planning with any other contractor employed on the project. A fortnightly project control report will be expected from the Contractor in writing, evaluating any gains or delays against the critical path and he should allow for all costs involved in planning reviewing and updating the programme to the satisfaction of the Principal Agent against this item. (b) Activity-and total float shall belong to the Employer. (c) The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date. It is a condition of this contract that, the contractor submit to the Engineer/principal agent a detailed CPM Programme which shall be to the approval of the Engineer/principal agent. In this regard tenderers are advised to consult with the Engineer/Principal Agent as to the format and requirements of the programme as no claim whatsoever will be entertained should the programme fail to meet the requirements of the Engineer/Principal Agent. Failure to submit the programme within the stipulated time may result in the contractor being held in breach of contract. The approved programme will form the basis of time management of the project and extension of time will not be guaranteed unless the Contractor has strictly complied with this provision. The programme shall make allowance for rain and the number of rain days allowed within the critical path shall be on the provisions of the clause dealing with inclement weather and claiming for delays in performance in this bill. Allowance for the above must be made under this item as no claims for failing to comply with this precondition will later be entertained.

INCLEMENT WEATHER AND CLAIMS FOR DELAYS IN PERFORMANCE

- (a) Extension of time claims shall be adjudicated according to GCC2010 2nd Edition
- (b) Claims for delays in performance due to inclement weather shall be calculated separately for each calendar month and for the project as a whole. Delays or gains to the critical path shall be reflected in all revisions of the programme. An extension of time will only be granted where the following conditions are met:
- (i) The criteria to be used for WORK stoppages shall be for safety hazards or poor quality of work.
 - (ii) The Employer's site representative or the Employer's Principal Agent, if the site representative is not available shall be notified when the Contractor stops the work and intends to claim performance delays. The Employer representative shall inspect the situation together with the Contractor and give an immediate decision.
1. The stoppage claimed must cause a delay in the Completion Date of work. If the critical activities can proceed and a non-critical activity is delayed due to inclement weather no claims for delay shall be granted.
 2. No claims for stoppages less than 2(two) hours per day shall be considered.
 3. Claims granted for more than 2 (two) hours, but less than 10 (ten) hour (lunch included) day, shall be added together and expressed as full days.
 4. All claims shall be submitted in writing to the Principal Agent within one working day of the actual stoppage.
 5. The total delay in performance granted to the Contractor expressed in days shall be added to the contractual Completion Date of each section of the Works. The contractual penalty clause shall only come into effect after this newly arrived date.
 6. Total delays (in hours) will be rounded up or down to the nearest integer for the calculation of Working Days. The total hours (including lunch) per Working Day shall be 10 unless otherwise indicated on the Contractor's programme.
 7. Where the programmed delays for inclement weather exceed the actual delays incurred the Completion Date(s) will not be adjusted.
 8. Where the project includes builder's holidays the programmed durations for inclement weather shall be adjusted pro-rate to the actual Working Days.

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

Tender no:	ZNTM01078W	Part 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR:				
POST-TENDER INFORMATION						
Note: All information for this section requires consultation with the Contractor. The Engineer/Principal Agent shall not pre-select any of the alternatives available to the Contractor.						
1 CONTRACT DETAILS						
[1.1.1.9]	Contractor Name:					
[1.2.1.2]	Postal address:					
						
						
	Tel no	Fax no				
	Tax / VAT Registration No:	e-mail address				
	Physical address:					
						
[1.1.1.10]	The accepted contract price inclusive of tax is R :					
	[Amount in words]					
	Payment Of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)					
	The preliminaries amounts shall be paid in terms of:	<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.					
Alternative A	Adjustment of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11) For the adjustment of Preliminaries both the Contract Sum and the Contract Value (including tax) shall exclude the amount of Preliminaries, all Contingency Sum(s) and any provision for Cost Price Adjustment Provisions:- - An amount which shall not be varied. - An amount varied in proportion to the contract value as compared to the Contract Sum. - An amount varied in proportion to the Construction Period as compared to the initial Construction Period (excluding revisions to the Construction Period to which the Contractor is not entitled) to adjustment of the Contract Value in terms of the agreement. The Contractor shall provide a breakdown of charges (including tax) within 15 working days of the date of acceptance of tender and, where applicable, an apportionment of Preliminaries per section If the Contractor and the Principal Agent cannot agree, within ten (10) Working Days from the Commencement Date, on such a division then the Principal Agent shall make a division of the Preliminaries to be incorporated in the valuations for each monthly payment certificate as follows; 10% of the amount shall not be varied 15% varied in proportion of the Contract Value to the Contract Sum 75% varied in proportion to the revised Construction period compared with the initial Construction Period					

Sectional Completion : Subdivision of Preliminaries Costs

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

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

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

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

YES yes / no

or

Alternative B

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

NO yes / no

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

2 DOCUMENTS

Contract documents marked and annexed hereto:

Priced Bills of Quantities:

Yes

No

Lump Sum document :

Yes

No

Guarantee Options:

Not applicable

2.2 DESIGN BRIEF

Not applicable

YES or NO

2.3 DRAWINGS

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

YES or NO

2.4 DESIGN PROCEDURES

Not applicable

YES or NO

Contract drawings:

Yes

No

Other documents:

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

YES

GUARANTEE OPTIONS

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

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

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

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

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

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

X

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

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

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

3 SIGNATURES OF THE CONTRACTING PARTIES	
Thus done and signed at.....onof.....20.....	
Name of signatory	for and behalf of the Employer who by signature hereof
Capacity of signatory	as Witness.
Thus done and signed at.....onof.....20.....	
Name of signatory	for and behalf of the Contractor who by signature hereof
Capacity of signatory	as Witness.



KWAZULU-NATAL PROVINCE
PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN
(070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) &
KWAPHUZA (070343)**

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 ZNTM01078W

Project Code 070341 to 070345

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:

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE
SCHOOLS: HYMAN (070341), LUCAS MEMORIAL (070345),
MANDLENDODA (070342), GOBUME (070344) & KWAPHUZA (070343)**

"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 4.1 4.2 4.3 5 5.1 5.2 5.3 6 7 8 9 10 11 12 13 14 Signed at Date Guarantor's signatory (1) Capacity Guarantor's signatory (2) Capacity Witness signatory (1) Witness signatory (2)	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: 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; 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; 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. 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: the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or 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 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. 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. 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. 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. Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer. 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. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith. 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. 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. 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.



KWAZULU-NATAL PROVINCE
PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
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PART C2 - PRICING DATA

C2.1 PRICING INSTRUCTIONS GCC FOR CONSTRUCTION WORKS (Second Edition 2010)			
Project title:	SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION - CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN (070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) & KWAPHUZA (070343)		
Tender no:	ZNTM01078W	Project Code:	070341 to 070345

C2.1 Pricing Instructions

	Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable") 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.
1	MASSES AND MEASURING UNITS These shall be in accordance with the Measuring Units and National Measuring Standards Act No. 76 of 1973 and amendments thereto. 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.
2	PRICES FOR VARIATIONS 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.
3	SCALE 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.
4	PROVISIONAL ITEMS All items described as "Provisional" shall be used as directed by the Employer and measured and valued or paid for. No work for which "Provisional" items are allowed shall be commenced without written instructions from the Head : Public Works.

5	TIMELY ORDERING OF MATERIALS 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. 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.
6	ELECTRICAL LIGHTING, POWER AND WATER 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. 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. 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.
7	IMPORT PERMITS, DUTIES AND SURCHARGES. 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. 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. 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.
8	STANDARD SYSTEM OF MEASUREMENT WHERE BILLS OF QUANTITIES FORM PART OF THE TENDER DOCUMENTS The work executed under this Contract has been measured in accordance with the; Standard System of Measuring Builders Work (7th Edition) 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.
9	PRICING OF ROCK EXCAVATIONS 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.

10	BROAD BASED BLACK ECONOMIC EMPOWERMENT 1. It is the deliberate policy of the Provincial Administration of KwaZulu-Natal to foster and to encourage the economic empowerment of Black South Africans. This policy will be implemented without prescription and without prejudicing the principles and the integrity of the Provincial Administration of KwaZulu-Natal. Subject to these constraints and also subject to good business practise and commercial consideration, it is therefore considered appropriate that the Provincial Administration of KwaZulu-Natal should encourage business relationships with companies which actively pursue Affirmative Action and Black Economic Empowerment Programmes. 2. In responding to this tender you are therefore encouraged to devote attention to these two subjects of Affirmative Action and Economic Empowerment. In addition, in considering the appointment of sub-contractors, you are requested to extend the spirit of these policies. 3. The foregoing enunciations of this policy are not intended to be prescriptive nor to preclude any individual or operation from responding to this tender.				
11	REGISTRATION ON THE CENTRAL SUPPLIERS DATABASE 1. In terms of the Public Finance Management Act (PFMA), 1999 (Act No 1 of 1999) Section 38 (1) (a) (iii) and 51 (1) (iii) and Section 76 (4) of PFMA National Treasury developed a single platform, The Central Supplier Database (CSD) for the registration of prospective suppliers including the verification functionality of key supplier information. 2. Prospective suppliers will be able to self - register on the CSD website: www.csd.gov.za 3. Once the supplier information has been verified with external data sources by National Treasury a unique supplier number and security code will be allocated and communicated to the supplier. Suppliers will be required to keep their data updated regularly and should confirm at least once a year that their data is still current and updated. 4. Suppliers can provide their CSD supplier number and unique security code to organs of state to view their verified CSD information. 5. Tenderers are required to fill in clearly, legibly, in bold print and black ink their CSD supplier number in the space hereunder: <table border="1"> <tr> <td>Name of Supplier</td><td></td></tr> <tr> <td>Central Supplier Database (CSD) Supplier Number:</td><td></td></tr> </table>	Name of Supplier		Central Supplier Database (CSD) Supplier Number:	
Name of Supplier					
Central Supplier Database (CSD) Supplier Number:					
12	TAX CLEARANCE REQUIREMENTS It is a condition of tender that the taxes of the successful tenderer must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the Tenderer's tax obligations. It is a condition of this Offer of Commission that your practice remains in good standing with SARS (South African Revenue Services) in terms of its tax clearance, during the project, which is required to process your payment certificates. 1. In order to meet this requirement tenderers are required to apply via e-filing at any SARS branch office nationally. The Tax Compliance Status (TCS) requirements are also applicable to foreign Tenderers / individuals who wish to submit Tenders. 2. SARS will then furnish the Tenderer with a Tax Compliance Status (TCS) PIN that will be valid for a period of 1 (one) year from the date of approval. 3. In tenders where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Compliance Status (TCS) PIN. 4. Application for Tax Compliance Status (TCS) PIN can be done via e-filing at any SARS branch office nationally or on the website www.sars.gov.za.				

	5 Tax Clearance Certificates may be printed via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za. 6 Tax Clearance Certificates may be printed via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za.		
	<table border="1"> <tr> <td>Security PIN Number</td> <td></td> </tr> </table>	Security PIN Number	
Security PIN Number			
	<table border="1"> <tr> <td>Company / Entity Tax Reference Number</td> <td></td> </tr> </table>	Company / Entity Tax Reference Number	
Company / Entity Tax Reference Number			
13	BILLS OF QUANTITIES/LUMP SUM DOCUMENT The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract documents, the Standard Conditions of Tender, Conditions of Contract, Standard Preambles to all Trades, Specifications, Drawings and all other relevant documentation.		
14	VALUE ADDED TAX The tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the Bills of Quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.		
15	FIXED PRICE CONTRACT Should the Bills of Quantities/Lump Sum Document be a fixed price contract, the following clause must be inserted in the Pricing Instructions: Tenderders are to take note that the contract price adjustments are not applicable to this contract. Tenderders should therefore make provision in the Contract Sum, schedule of rates, etc. for possible price increases during the contract period, as no claims in this regard shall be entertained.		



KWAZULU-NATAL PROVINCE

PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN (070341),
LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) & KWAPHUZA (070343)**

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

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN
(070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) &
KWAPHUZA (070343)**

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. See Contract Data .				
	SECTION A: GENERAL CONDITIONS OF CONTRACT				
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			
SECTION B: SANS 1921-1:2004 (Edition 1): CONSTRUCTION AND MANAGEMENT REQUIREMENTS FOR WORKS CONTRACTS: PART 1					
Refer to the SCOPE OF WORK for detail requirements:					
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			
SECTION C: SCOPE OF WORK in accordance with SANS 10403 (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			
SECTION D: SPECIFICATION DATA ASSOCIATED WITH SANS 1921-1:2004 (Table A.1)					
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 - CLAUSE 4.17.1 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			
SECTION E: SPECIFIC PRELIMINARIES					
<u>Section E contains Specific Preliminary items which apply to this contract except where "N/A" (Not Applicable) appears against the item.</u>					
E1	PROPRIETARY BRANDED PRODUCTS 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	OVERTIME 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	AS BUILT DRAWINGS 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	SITE INSTRUCTIONS 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. F:..... V:..... T:.....	Item			
E5	LABOUR RECORD 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. 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 in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum per calendar day of which the required report has not been submitted.</i>	Item			
E6	PLANT RECORD 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. F:..... V:..... T:.....	Item			
E7	NON CESSION OF MONIES The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract. F:..... V:..... T:.....	Item			
E8	SECTIONAL COMPLETION 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. F:..... V:..... T:.....	Item			
E9	LOCAL LABOUR 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. F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E10	IMPORT PERMITS AND DUTIES 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. 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. F:..... V:..... T:.....	Item			
E11	CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP) 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 <u>will not accept the submission by Tenderers of lists of additional items.</u> 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. F:..... V:..... T:.....	Item			
E12	EPWP CONDITIONS AND SPECIFICATIONS 12.1 EMPLOYMENT TARGETS <u>E12.1 a Employment Targets</u> 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. No of jobs to be created = [Contractor to fill in an estimated number] F:..... V:..... T:..... <u>E12.1 b Employment requirements</u> Tenderers are advised that this contract will be subject to the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment. Tenderers must allow for any costs for the employment of unskilled labour as per the requirements of the EPWP program; 1. 55% 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. F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	E12.1 c Labour rate and payment intervals 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. F:..... V:..... T:.....	Item			
	12.2 LABOUR INTENSIVE CONSTRUCTION METHOD E12.2 a Labour Intensive Construction (LIC) method 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 F:..... V:..... T:.....	Item			
	E12.2 b Labour Intensive Construction Method 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. 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)" F:..... V:..... T:.....	Item			
	E12.3 RECORD KEEPING 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. F:..... V:..... T:.....	Item			
	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. 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. F:..... V:..... T:.....	Item			
	Carried forward to collection				R

		UNIT	QUANTITY	RATE	AMOUNT
	E12.4 EPWP REPORTING as per EPWP DATA FORM At the end of each month as part of site progress report and to be attached to every contractors' progress payment certificate; the contractor shall provide the principal agent & Public Works with a written records, as per EPWP data form; which will be reflecting, beneficiaries full name & surname; ID No and job description of labour employed by main contractor and sub-contractors on site. At the end of each month the contractor must submit the following documents to be attached to the Progress payment certificate: 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 F:..... V:..... T:.....	Item			
	E12.5 EPWP PROMOTION <u>12.5.1 EPWP signage board</u> 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. F:..... V:..... T:.....	Item			
	<u>12.5.2 Branding of labour apparel</u> Contractor & Sub-contractors' labourers shall be provided with EPWP branded Personal Protective Equipment (PPE), reflector vest with EPWP wording at the back is an ideal and cost effective means of promoting program on site. The contractor is then advised to price for both item 17.5.1 and 17.5.2 F:..... V:..... T:.....	Item			
	E12.6 COMMUNITY LIAISON OFFICER (CLO) <u>UTILISATION OF A COMMUNITY LIAISON OFFICER</u> 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 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.				

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. Key Responsibilities of the CLO are envisaged to include and not necessary be limited to: 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. 2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor. 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. 4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise. 5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained. 6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained 7. Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications				
Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommenda-tion to the Contractor regarding the grievances and solution thereto. 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. 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. 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 F:..... V:..... T:..... E12.7 SKILLS DEVELOPMENT ON SITE 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. 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. 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. F:..... V:..... T:..... E12.8 LABOUR ONLY Sub Contracting for local emerging enterprises Tenderer's are advised that this contract is subject to the Expanded Public Works Programme (EPWP) and the following criteria will apply: <u>African Equity Ownership</u> 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. b) The Priority Population Group consists of women, youth and disabled people. 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). 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. In so far as possible, the Contractor is encouraged to expand the PPG's skills, knowledge and performance levels. F:..... V:..... T:.....	Item			
		Item			
		Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	<u>TENDERER'S TO NOTE CONDITIONS</u> a) The contract to be entered into between the Contractor and the PPG's will be a LABOUR ONLY sub-contract. 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. 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. 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 e) The Contractor is to allow for extra storage facilities on site for the PPG's tools and equipment. 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 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. <u>CO-ORDINATION</u> 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. F:..... V:..... T:..... <u>ATTENDANCE</u> 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. 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. 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. F:..... V:..... T:..... E12.9 EPWP CONTRACT FOR LABOUR 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. F:..... V:..... T:.....	Item			
		Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	E12.10 EPWP SCOPE of WORK Note: 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. 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; i) Excavating trenches for foundations and any other civil works with the depth not more than 1.5 m ii) All masonry works which include concrete mixing on site; brickwork; plastering; screed works; jointing; etc. iii) Painting, Plumbing, Ironmongery; roof cladding; glazing; tiling; carpentry; flooring; waterproofing; etc. F:..... V:..... T:..... Note: 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. <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. <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. <u>Applicable labour laws</u> The current Ministerial Determination (also downloadable at www.epwp.gov.za) 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. F:..... V:..... T:.....	Item			
		Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E13	HIV/AIDS AWARENESS Tenderers are to price against the following items for compliance with the SPECIFICATION FOR HIV/AIDS AWARENESS bound into this document (The clauses referred to are those of the Specification for HIV/AIDS)				
E13.1	Provide and maintain a condom dispenser in terms of Clause 5.1a) F:..... V:..... T:.....	Item			
E13.2	Provide and maintain HIV/AIDS awareness posters terms of Clause 5.1b) F:..... V:..... T:.....	Item			
E13.3	HIV /Aids Awareness Programme on Site for not less than 90% of workers inclusive of all direct and indirect costs; 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	Reporting 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	OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993 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	NOTICE BOARD, SITE OFFICE, ETC. 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	IMPORTED MATERIALS AND EQUIPMENT 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. (Refer to T2.14 - Schedule of Imported Materials and Equipment.) F:..... V:..... T:.....	Item			
E17	CONTRACT DOCUMENTS 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	GENERAL PREAMBLES 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. F:..... V:..... T:.....	Item			
E19	TRADE NAMES 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. F:..... V:..... T:.....	Item			
E20	EXISTING PREMISES OCCUPIED Refer to Scope of Works Part C3 of this Tender Document for information on the occupation of existing buildings. F:..... V:..... T:.....	Item			
E21	INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT 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. 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. F:..... V:..... T:.....	Item			
E22	VIEWING THE SITE IN SECURITY AREAS If the site is situated in a security area and the Tenderder must arrange with the Authorities to obtain permission to enter the site for Tenderding purposes. F:..... V:..... T:.....	Item			
E23	COMMENCEMENT OF WORKS IN SECURITY AREAS 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. F:..... V:..... T:.....	Item			
E24	ENTRANCE PERMITS TO SECURITY AREAS 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. F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E25	SECURITY CHECK OF PERSONNEL The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified. 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. F:..... V:..... T:.....	Item			
E26	PROHIBITION ON TAKING PHOTOGRAPHS 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. 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. F:..... V:..... T:.....	Item			
E27	Management of Water Water for Construction purposes must be obtained from alternative water sources (i.e. supply other than water that is produced and distributed by a regulated water service authority from a licenced water treatment works for human consumption), eg dams, rivers, boreholes, springs, rainwater harvesting, recycled sewerage water, etc. The alternative water source shall not be of an inferior quality / standard than that required for construction purposes. The client reserves the right through his agents to test such supplies or request certificates confirming the grade and nature of the water supply. Relevant knowledge of the respective area will be an advantage.				
	Carried forward to collection			R	

SECTION 1			
SUMMARY – PRELIMINARY & GENERAL			
Collection	Page No.	Amount	
	7	R	
	8	R	
	9	R	
	10	R	
	11	R	
	12	R	
	13	R	
	14	R	
	15	R	
	17	R	
	18	R	
	19	R	
	20	R	
	21	R	
	22	R	
	23	R	
	24	R	
Carried forward to Final Summary		R	
Section No. 1 Preliminary & General Summary			



KWAZULU-NATAL PROVINCE

PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN
(070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) &
KWAPHUZA (070343)**

PART C2.3 BILL OF QUANTITIES

3 FEMALE, 3 MALE AND 1 DISABLED
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC.</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>SITE CLEARANCE ETC</u>				
	<u>Site clearance</u>				
101	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees etc. not exceeding 200mm girth	m ²	5.00		
102	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	5.00		
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material not exceeding 2m deep</u>				
103	Trenches	m ³	13.50		
104	Trenches in reduced levels to pit floor	m ³	1.00		
105	Pit hole	m ³	5.00		
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
106	Pit hole	m ³	5.40		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
107	Soft Rock	m ³	7.00		
108	Hard Rock	m ³	1.00		
	<u>Risk of collapse of excavations</u>				
109	Sides of trench excavations not exceeding 1,5m deep	m ²	3.00		
110	Sides of pit excavations exceeding 1,5m deep	m ²	3.00		
	<u>Keeping excavations free of water</u>				
111	Keeping excavations free of all water other than subterranean water	Item	2.00		
TOTAL CARRIED FORWARD					

					EARTHWORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Extra over all excavations for carting, loading and dumping surplus excavated material and vegetation no allowance made for increase in bulk:</u>				
112	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	28.00		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
113	Backfilling to trenches, holes, pits etc	m ³	34.60		
	<u>Soilcrete backfilling with 8% batch mixing</u>				
114	Backfilling behind pit walls	m ³	17.22		
	<u>The following to be lightly compacted</u>				
115	Selected topsoil spread and levelled on site including dressing to banks, berms, etc, watering and consolidating for an average depth of 150mm	m ²	51.00		
	<u>Coarse river sand filling supplied by the contractor</u>				
116	Under floors etc 150mm thick	m ³	8.00		
	<u>Hardcore filling</u>				
117	Class G7, under floors, steps, pavings etc. 50mm thick	m ³	3.00		
	<u>Compaction of surfaces</u>				
118	Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density	m ²	51.00		
	<u>Prescribed density tests on filling</u>				
119	Modified AASHTO Density test	No	6.00		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
120	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	51.00		
121	To bottoms and sides of trenches etc	m ²	49.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25MPa/19mm concrete</u>				
122	Strip footings	m ³	5.00		-
TOTAL CARRIED FORWARD					

3 FEMALE, 3 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
123	Strip footings, where ordered	m ³	5.00		
124	Surface beds 85mm thick to building cast in panels on waterproofing	m ³	3.00		
125	Pit floor slab 50mm thick (where ordered)	m ³	1.50		
126	Aprons 85mm thick 800mm wide around building	m ³	1.50		
127	Pit cover slab 85mm thick	m ³	5.00		
128	Ramps	m ³	0.50		
	<u>TEST BLOCKS</u>				
129	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	15.00		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing to top surfaces of concrete smooth with a woodfloat finish to currents and falls</u>				
130	Aprons, surface beds, etc	m ²	72.00		
	<u>Finishing to top surfaces of concrete smooth with a steel float finish</u>				
131	Aprons, surface beds, etc	m ²	R/O		
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to soffits</u>				
132	To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	27.00		
133	To sides of Stripfootings	m ²	13.00		
	<u>SMOOTH FORMWORK</u>				
	<u>Smooth formwork to sides</u>				
134	Edges not exceeding 100mm wide or high	m	22.00		
TOTAL CARRIED FORWARD					

3 FEMALE, 3 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Smooth formwork to form</u>				
135	Opening not exceeding 1m girth through not exceeding 300mm slab	No	5.00		
136	Opening not exceeding 100mm diameter girth through 170mm slab to suit vent pipes	No	5.00		
137	50mm diameter opening through 170mm slab to suit pedestal urinal drains	No	4.00		
138	330mm diameter opening through 170mm slab to suit desludge plug	No	2.00		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
139	6mm Joints not exceeding 100mm high	m	4.00		
140	10mm Joints not exceeding 100mm high	m	4.00		
141	Vertical joints	m	22.00		
	<u>REINFORCEMENT</u>				
	<u>Mild and high tensile steel reinforcement to structural concrete work</u>				
142	2 x Y16 x 550mm apart on 110mm high R8 stools at 600mm c/c in strip footings, where ordered	kg	500.00		
	<u>Fabric reinforcement</u>				
143	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	45.00		
144	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	27.00		
	<u>PRECAST CONCRETE</u>				
145	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	8.00		
146	905 x 300 x 100mm precast concrete (2kg reinforcing each) inspection cover slabs for tank (Type B), with one pair of steel handles suitable for grip	No	4.00		
147	880 x 630 x 150mm precast concrete inspection cover slab for PIT (Type A and D), incl plug	No	2.00		
148	1700 x 630 x 150mm precast concrete inspection cover slab for pit (Type B), incl plug	No	1.00		
149	1870 x 630 x 150mm precast concrete inspection cover slab for pit (Type C), incl plug	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
150	Half brick walls	m ²	12.89		
151	One brick walls	m ²	13.16		
	<u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
152	One brick walls	m ²	59.60		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
153	Piers 230 x 230 x 2100mm high tied into one brick wall	No	2.00		
154	Half brick walls	m ²	34.00		
TOTAL CARRIED FORWARD					

3 FEMALE, 3 MALE AND 1 DISABLED
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
155	One brick walls	m ²	82.00		
156	Half brick walls in beamfilling	m ²	2.00		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
157	75mm Wide reinforcement built in horizontally	m	190.00		
158	150mm Wide reinforcement built in horizontally every third course	m	527.00		
	<u>Fabcon prestressed fabricated lintels</u>				
159	110 x 75mm Lintels in lengths not exceeding 3m length	m	11.00		
	<u>Galvanised hoop iron cramps, tiles, etc</u>				
160	1,6mm x 30mm Galvanised hoop iron roof strap 1600mm long with one end fixed to timber and other end built into brickwork minimum 6 courses deep	No	7.00		
	<u>Air bricks etc</u>				
161	229 x 152mm Clay vermin proof air brick	No	7.00		
	<u>Bagging</u>				
	Item on brick walls	m ²	46.00		
	internal gables x2	m ²	6.00		
	<u>FACE BRICKWORK</u>				
	<u>Face brickwork of "Firelight Satin" face bricks pointed with recessed horizontal and vertical joints</u>				
162	Extra over brickwork for face brickwork in superstructure	m ²	99.00		
	internal gables around entrance	m ²	3.00		
163	Extra over brickwork for face brickwork in beamfilling	m ²	1.80		
164	Extra over brickwork for brick on edge header course lintel pointed on soffit and one face	m	5.30		
165	Fair cutting faced brickwork around pipes not exceeding 100mm diameter	No	10.00		
166	Fair raking cutting	m	13.60		
	<u>Brick-on-edge header course copings, sills, etc of "Firelight Satin" face bricks pointed with recessed joints on all exposed faces</u>				
167	Sills set sloping and slightly projecting pointed on top and face	m	3.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
WATERPROOFING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ins and turn-downs <u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of 375 micron "Consol Plastics Brikrip DPC" embossed damp proof course</u> 168 In walls m ² 7.00 <u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u> 169 Under surface beds m ² 45.00 <u>Two coats Brixal bitumen emulsion waterproof coating</u> 170 On bagged brick walls m ² 46.00 <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> 171 6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary m 10.00 172 6 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary m 9.00 <u>Silicone sealing compound</u> 173 Bostik silicone sealant applied with a pressure caulking gun sealing around metal window and timber door frames m 14.00				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	ROOF COVERING
					AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 5</u> <u>ROOF COVERING</u> The Tenderer is referred to the relevant clause in the separate document Model Preambles for Trades (2008 Edition). <u>ROOF COVERINGS,ETC.</u> <u>METAL SHEETING AND ACCESSORIES</u> <u>0.5mm "Safinta Widedeck" raincloud corrugated sheeting fixed to timber purlins or rails with 75mm long "El Toro" drive screws,in strict accordance with manufacturer's specifications.</u>				
174	Roof covering with pitch not exceeding 25 degrees.	m ²	59.00		
175	Ridge Capping	m	8.60		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED

ITEM NO	DESCRIPTION	UNIT	QTY	CARPENTRY AND JOINERY	
				RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 6</u> <u>CARPENTRY AND JOINERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>ROOFS ETC</u> Tenderers are to make allowance in their rates for any additional expense in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building In addition, TR1 and TR2 certificates are required in respect of the truss construction and must be provided by an accredited MITEK or equal truss manufacturer or by a Registered Truss Engineer <u>Prefabricated roof trusses, etc.</u> All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER trusses and bolted trusses with lapped members Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is SAFINTA WIDEDECK roof sheeting on 50 x 76mm timber purlins. The dimensions in the description of the trusses are nominal and actual measurements are to be obtained from the Architect and/or the site before design or fabrication commences				
TOTAL CARRIED FORWARD					

3 MALE, 3 FEMALE AND 1 DISABLED

CARPENTRY AND JOINERY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>ROOF CONSTRUCTION</u>				
	<u>Sawn softwood</u>				
176	38 x 114mm Wall plates including bed level in cement mortar	m	16.00		
177	38 x 114mm Longitudinal bracing	m	4.20		
178	50 x 76mm Cross bracing	m	14.00		
179	50 x 76mm Purlins	m	69.00		
180	50 x 75mm Splayed purlins	m	17.20		
181	50 x 76mm Trimmers	m	14.00		
182	Prefabricated Howe type roof trusses approximately 5,50m span x 0,95m high extreme spaced not exceeding 1,2m centers, from approximately 2,37m above ground level with 600mm eaves overhang projection on both sides	No	7.00		
	<u>Sundries</u>				
183	Wrought faces on sawn timbers	m ²	43.00		
184	Two coats creosote on sawn timbers [For all exposed timbers]	m ²	17.00		
185	Teco two way hurricane clips	No	56.00		
	<u>EAVES, VERGES, ETC</u>				
	<u>'Everite FC77' Fiber cement or similar approved</u>				
186	9 x 225mm Fascia boards including galv steel H-profile jointing strips	m	18.00		
187	9 x 225mm L-shaped barge boards including galv steel H-profile jointing strips	m	14.00		
TOTAL CARRIED FORWARD					-

3 FEMALE, 3 MALE AND 1 DISABLED

CARPENTRY AND JOINERY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>DOORS, ETC</u> <u>TIMBER DOORS AS TDM OR SIMILAR APPROVED</u> <u>Note:</u> All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tenon where is exposed on the outside edge of stiles and where the tenon is wedged, to form a dovetailed shape a) Rates must include for hanging {frames are elsewhere measured unless otherwise described) b) Tenderers are advised to refer to the Architect's detailed drawings, schedules, etc., which indicate the various door types and references where applicable. c) All opening sizes must be verified on site before hanging commences. Additional costs for trimming of doors, etc, must be included in the overall rate. <u>Wrought SA Pine doors hung to steel frames</u>				
188	40mm Framed, ledged and braced battened door 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces filled in with 90mm V-jointed one side boarding	No	4.00		
189	<u>Wrought Meranti doors hung to steel frames</u> 40mm Framed, ledged and braced battened door 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces filled in with 90mm V-jointed one side boarding	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	IRONMONGERY AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 7</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> 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 - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated <u>HINGES, BOLTS, ETC.</u> <u>Solid</u> 190 150mm Brass barrel bolt. <u>LOCKS</u> <u>Solid</u> 191 Three lever lock set and chromium plated door handles <u>Union</u> 192 3122 - 51 Padlock				
	TOTAL CARRIED FORWARD				

3 FEMALE, 3 MALE AND 1 DISABLED

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	IRONMONGERY AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SUNDRIES</u>				
193	38mm Diameter red rubber door stop screwed to walls	No	5.00		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>Signage to be 3mm perspex sheet 60mm high with 30mm high "helvetica" lettering engraved and painted comprising</u>				
194	Four and six characters to read (Male) (Female)	No	2.00		
195	Eight characters to read (Disabled)	No	1.00		
196	Eleven characters to read (Staff Toilet)	No	1.00		
	<u>BATTHROOM FITTINGS</u>				
197	Chromium plated thief proof toilet roll holder	No	5.00		
	<u>Chairman Industries</u>				
198	32mm Diameter tubular stainless steel cistern back rail girth with two bends and two wall fixing with rose. Ref SR2, fixed to tiled walls	No	1.00		
199	32mm Diameter tubular stainless steel dog leg side rail girth with three bends and two wall fixing with rose. With two flanges, Ref DL2, fixed to tiled walls	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
METALWORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 8</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>WELDED SCREENS, GATES, ETC</u> <u>Hot dip galvanised after fabrication mild steel framed and welded gates formed of hollow section framing, bracing, etc bent at square corners and with scribed and mitred intersections, etc (No painting required)</u>				
200	Single gate and frame in one leaf overall size 880 x 2250mm high with vertical and horizontal bars welded on including gate lock and accessories	No	2.00		
	<u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
201	Frame for door 813 x 2032mm high	No	1.00		
	<u>1.2mm Double rebated frames suitable for half brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
202	Frame for door 813 x 2032mm high	No	4.00		
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC (No painting required)</u> <u>Standard school windows fitted with 20 x 5mm galvanised burglar bars to NBP2 to opening sashes</u>				
203	Window 533 x 654mm high (NE1)	No	1.00		
204	Window 1022 x 654mm high (NE2)	NO	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

3 FEMALE, 3 MALE AND 1 DISABLED
PLASTERING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 9</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SCREEDS</u> <u>Cement mortar Screed steel trowelled on concrete</u> 205 20mm Thick on floors and landings <u>INTERNAL PLASTER</u> <u>Cement plaster on brickwork</u> 206 On walls <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u> 207 On external pit walls above ground				
		m ²	32.00		
		m ²	189.00		
		m ²	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

3 FEMALE, 3 MALE AND 1 DISABLED
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 10</u> <u>PLUMBING (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>RAINWATER DISPOSAL</u> <u>Marley Vynadeep' uPVC SABS 11 Gutter System:</u>				
208	110mm Eaves gutter with beaded front edge fixed to fascia brackets at maximum 1000mm centres.	m	17.20		
209	Extra over 110mm eaves gutter for stopped end.	No	4.00		
210	Extra over 110mm eaves gutter for outlet including boring 75mm diameter hole through gutter.	No	4.00		
211	75mm Diameter downpipes	m	11.00		
212	Extra over 75mm rainwater pipe for bend.	No	4.00		
	<u>"Charlog"</u>				
213	Charlog type VIP200 toilet with plastic seat and lid	No	5.00		
214	Charlog Bowl urinal with self-cleaning curtain valve (Addicom Echo) Smell Stop trap.	No	2.00		
215	Charlog Christy basin including fixing to walls	No	4.00		
	<u>WASTE UNIONS ETC</u>				
216	32mm "Cobra 301" waste union	No	4.00		
	<u>TRAPS ETC</u>				
	<u>Rubber</u>				
217	50mm Resealable S-Trap	No	4.00		
TOTAL CARRIED FORWARD					

3 FEMALE, 3 MALE AND 1 DISABLED
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>TAPS, VALVES, ETC</u>				
	<u>Brass</u>				
218	15mm "Ball-o-stop" valve	No	4.00		
	<u>Cobra Watertech</u>				
219	15mm, 111CP "Star" pillartap	No	4.00		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
220	50mm Pipes	m	4.00		
221	50mm Pipes chased in surface beds	m	12.00		
	<u>Extra over uPVC pipes for fittings</u>				
222	50mm Bend	No	4.00		
223	50mm Access bend	No	4.00		
224	50mm Air cowl	No	5.00		
225	40 x 50mm BSP adaptor	No	4.00		
	<u>WATER SUPPLIES</u>				
	<u>Class 2 copper pipes</u>				
226	15mm Pipes	m	2.00		
227	15mm Pipes chased into masonry or surface beds	m	6.00		
	<u>Extra over class 2 copper pipes for capillary fittings</u>				
228	15mm Fittings	No	4.00		
TOTAL CARRIED FORWARD					

3 FEMALE, 3 MALE AND 1 DISABLED
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>TANKS ETC</u>				
	<u>"JoJo" or similar approved Low Profile Rainwater Tank:</u>				
229	5000L "JoJo" Rotomoulded polyethylene rainwater storage tank and tank tap seated on top of and including 25Mpa concrete base size 2500 x 2500 x 500mm deep including all necessary excavation compaction of ground under base to 95% Mod AAshto including backfilling around and wood floating top of concrete base and including all necessary formwork to form edges.	No	1.00		
230	Outlet union for 22mm copper pipe including hole through tank	No	1.00		
	<u>SUNDRIES</u>				
	<u>Note</u>				
	Where possible, all vent pipes must face Northerly. To achieve this, the gable end walls must be positioned facing East and West. This may differ from one site to another but, as far as possible, this should be observed. Kindly consult with Project Manager to confirm and seek a written instruction to confirm				
231	110mm Diameter PVC Vent pipe complete with 200mm diameter fly-screen including fixing to walls with 110mm aluminium holder brackets at 1m intervals including cutting hole through roof covering and sealed with an approved flashing	No	4.00		
232	110mm PVC pipes in short lengths not exceeding 1m	No	4.00		
233	Fly Screen made of 500 x 500mm gauze fixed with cable ties to vent pipes	No	4.00		
	Under no circumstances must any of the piping be painted unless specifically ordered to do so by the Project Manager ONLY, with a written instruction supporting any deviation from this note. Failure to observe this will result in removal and replacement of painted piping with new				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
GLAZING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 11</u> <u>GLAZING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GLAZING TO STEEL WITH PUTTY</u> <u>4mm Obscure "Sandblasted" glass</u>				
234	Panes exceeding 0,1m² and not exceeding 0,5m² <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> <u>3mm Silvered float glss copper backed mirror with 10mm bevelled and polished edges fixed with chromium plated dome capped mirror screws with rubber buffers to plug in brickwork or concrete</u>	m ²	1.70		
235	600 x 800mm High mirrors	No	3.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

3 FEMALE, 3 MALE AND 1 DISABLED

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	PAINTWORK AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 12</u> <u>PAINTWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PAINTWORK ETC TO NEW WORK</u> <u>ON FLOATED PLASTER</u> <u>Prepare and apply one alkaline resistant plaster primer, one under coat and two finishing coat of "Dulux" pearlo water paint as SABS Specification 1586 Grade 1 (White unless otherwise described)</u>				
236	On internal walls	m ²	115.00		
	<u>ON WOOD</u> <u>Prepare, prime with general purpose wood primer as SABS Specification 678 Type III and apply one under coat as SABS Specification 681 Type II, and two finishing coats of high gloss enamel paint as SABS Specification 630 Type I on wood</u>				
237	On timber doors	m ²	17.00		
	<u>ON FIBRE CEMENT</u> <u>Prepare, stop and apply flat oil paint to all screw heads, apply one coat alkali resistant primer to SABS 1416 and two coats acrylic emulsion paint for exterior use to SABS 1586 Grade I</u>				
238	On Facias and barge boards	m ²	11.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 13</u> <u>EXTERNAL WORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAK AWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
239	Trench (450mm wide) up to 500mm deep for drain pipe	m ³	3.00		
240	Trench (900 mm wide) up to 1000mm deep for infiltrator units	m ³	5.00		
241	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
242	110 x 50 mm uPVC reducer	No	1.00		
243	Quick4 High Capacity Kaytech chamber	No	2.00		
244	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
245	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
246	Backfilling to trench	m ³	3.00		
247	Backfilling around chamber and end cap units including berming over units as directed	m ³	3.00		
248	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

3 FEMALE, 3 MALE AND 1 DISABLED
SECTION SUMMARY

Bill No.	<u>SECTION NO. 1</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 ROOF COVERINGS	
	6 CARPENTRY AND JOINERY	
	7 IRONMONGERY	
	8 METALWORK	
	9 PLASTERING	
	10 PLUMBING	
	11 GLAZING	
	12 PAINTWORK	
	13 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		-

8 BOYS
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 1</u> <u>EARTHWORKS, ETC.</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXCAVATION, FILLING, ETC</u> <u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
101	Pit hole	m ³	5.00		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Soft Rock	m ³	5.40		
103	Hard Rock	m ³	11.00		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
104	To bottoms and sides of trenches etc	m ²	33.00		
TOTAL CARRIED FORWARD					

8 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.				
TOTAL CARRIED FORWARD					

8 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
105	Surface beds 85mm thick to building cast in panels on waterproofing	m ³	2.00		
106	Pit floor slab 50mm thick (where ordered)	m ³	1.00		
107	Aprons cast in panels 85mm thick 800mm wide around building	m ³	1.00		
	<u>TEST BLOCKS</u>				
108	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	15.00		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing to top surfaces of concrete smooth with a woodfloat finish to currents and falls</u>				
109	Aprons, surface beds, etc	m ²	19.00		
	<u>Finishing to top surfaces of concrete smooth with a steel float finish</u>				
110	Aprons, surface beds, etc	m ²	R/O		
TOTAL CARRIED FORWARD					

8 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Smooth formwork to form</u>				
111	Opening not exceeding 100mm diameter girth through 170mm slab to suit vent pipes	No	2.00		
112	50mm diameter opening through 170mm slab to suit pedestal urinal drains	No	4.00		
113	330mm diameter opening through 170mm slab to suit desludge plug	No	2.00		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
114	6mm Joints not exceeding 100mm high	m	5.00		
	<u>REINFORCEMENT</u>				
	<u>Mild and high tensile steel reinforcement to structural concrete work</u>				
	<u>Fabric reinforcement</u>				
115	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	8.00		
	<u>PRECAST CONCRETE</u>				
116	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	8.00		
117	630 x 1980 x 150mm precast concrete inspection cover slab for pit (Type A), incl plug	No	1.00		
118	630 x 1980 x 150mm precast concrete inspection cover slab for pit (Type B), incl plug	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS MASONRY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS</u> <u>Brickwork of NFP bricks in class II mortar</u>				
119	beam filling	m ²	3.00		
	internal gable x 1	m ²	3.00		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Fabcon prestressed fabricated lintels</u>				
120	110 x 75mm Lintels in lengths not exceeding 3m length	m	10.00		
	<u>Bagging</u>				
121	internal gable	m ²	3.00		
	<u>Face brickwork of "Firelight Satin" face bricks pointed with recessed horizontal and vertical joints</u>				
122	Extra over brickwork for face brickwork in superstructure	m ²	3.00		
TOTAL CARRIED FORWARD					

8 BOYS
WATERPROOFING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ins and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
123	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	5.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS					
ROOF COVERING					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>ROOF COVERING</u> The Tenderer is referred to the relevant clause in the separate document Model Preambles for Trades (2008 Edition). <u>ROOF COVERINGS,ETC.</u> <u>METAL SHEETING AND ACCESSORIES</u> <u>0.5mm "Safinta Widedeck" raincloud corrugated sheeting fixed to timber purlins or rails with 75mm long "El Toro" drive screws,in strict accordance with manufacturer's specifications.</u>				
124	Roof covering with pitch not exceeding 25 degrees.	m ²	41.50		
125	Ridge Capping	m	6.10		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS CARPENTRY AND JOINERY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 6</u> <u>CARPENTRY AND JOINERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>ROOFS ETC</u> Tenderers are to make allowance in their rates for any additional expense in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building In addition, TR1 and TR2 certificates are required in respect of the truss construction and must be provided by an accredited MITEK or equal truss manufacturer or by a Registered Truss Engineer <u>Prefabricated roof trusses, etc.</u> All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER trusses and bolted trusses with lapped members Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is SAFINTA WIDEDECK roof sheeting on 50 x 76mm timber purlins. The dimensions in the description of the trusses are nominal and actual measurements are to be obtained from the Architect and/or the site before design or fabrication commences				
TOTAL CARRIED FORWARD					

8 BOYS

CARPENTRY AND JOINERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>ROOF CONSTRUCTION</u>				
	<u>Sawn softwood</u>				
126	38 x 114mm Wall plates including bed level in cement mortar	m	8.30		
127	38 x 114mm Longitudinal bracing	m	3.00		
128	50 x 76mm Cross bracing	m	6.00		
129	50 x 76mm Purlins	m	49.00		
130	50 x 75mm Splayed purlins	m	12.20		
131	50 x 76mm Trimmers	m	13.60		
132	Prefabricated Howe type roof trusses approximately 5,50m span x 0,95m high extreme spaced not exceeding 1,2m centers, from approximately 2,37m above ground level with 600mm eaves overhang projection on both sides	No	5.00		
	<u>Sundries</u>				
133	Wrought faces on sawn timbers	m ²	30.40		
134	Two coats creosote on sawn timbers [For all exposed timbers]	m ²	9.60		
135	Teco two way hurricane clips	No	40.00		
	<u>EAVES, VERGES, ETC</u>				
	<u>"Everite FC77" Fiber cement or similar approved</u>				
136	9 x 225mm Fascia boards including galv steel H-profile jointing strips	m	12.20		
137	9 x 225mm L-shaped barge boards including galve steel H-profile jointing strips	m	13.60		
TOTAL CARRIED FORWARD					-

8 BOYS

CARPENTRY AND JOINERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>DOORS, ETC</u> <u>TIMBER DOORS AS TDM OR SIMILAR APPROVED</u> <u>Note:</u> All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tenon where is exposed on the outside edge of stiles and where the tenon is wedged, to form a dovetailed shape a) Rates must include for hanging {frames are elsewhere measured unless otherwise described} b) Tenderers are advised to refer to the Architect's detailed drawings, schedules, etc., which indicate the various door types and references where applicable. c) All opening sizes must be verified on site before hanging commences. Additional costs for trimming of doors, etc, must be included in the overall rate. <u>Wrought SA Pine doors hung to steel frames</u>				
138	40mm Framed, ledged and braced battened door 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces filled in with 90mm V-jointed one side boarding	No	4.00		
	<u>Wrought Meranti doors hung to steel frames</u>				
139	40mm Framed, ledged and braced battened door 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces filled in with 90mm V-jointed one side boarding	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS IRONMONGERY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 7</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> 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 - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated <u>HINGES, BOLTS, ETC.</u> <u>Solid</u> 140 150mm Brass barrel bolt. <u>LOCKS</u> <u>Solid</u> 141 Three lever lock set and chromium plated door handles <u>Union</u> 142 3122 - 51 Padlock				
TOTAL CARRIED FORWARD					-

					8 BOYS IRONMONGERY
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SUNDRIES</u>				
143	38mm Diameter red rubber door stop screwed to walls	No	5.00		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>Signage to be 3mm perspex sheet 60mm high with 30mm high "helvetica" lettering engraved and painted comprising</u>				
144	Four characters to read (Boys)	No	1.00		
145	Eight characters to read	No	R/O		
146	Ten characters to read (Boys Toilet)	No	1.00		
	<u>BATTHROOM FITTINGS</u>				
147	Chromium plated thief proof toilet roll holder	No	4.00		
	<u>Chairman Industries</u>				
148	32mm Diameter tubular stainless steel cistern back rail girth with two bends and two wall fixing with rose. Ref SR2, fixed to tiled walls	No	R/O		
149	32mm Diameter tubular stainless steel dog leg side rail girth with three bends and two wall fixing with rose. With two flanges, Ref DL2, fixed to tiled walls	No	R/O		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					8 BOYS METALWORK AMOUNT
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	
	<u>SECTION NO. 2</u> <u>BILL NO. 8</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>WELDED SCREENS, GATES, ETC</u> <u>Hot dip galvanised after fabrication mild steel framed and welded gates formed of hollow section framing, bracing, etc bent at square corners and with scribed and mitred intersections, etc (No painting required)</u>				
150	Single gate and frame in one leaf overall size 880 x 2250mm high with vertical and horizontal bars welded on including gate lock and accessories	No	1.00		
	<u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
151	Frame for door 813 x 2032mm high	No	R/O		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS PLASTERING					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
152	<u>SECTION NO. 2</u> <u>BILL NO. 9</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>	m ²	1.50		
	On external pit walls above ground				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

8 BOYS
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 10</u> <u>PLUMBING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>RAINWATER DISPOSAL</u> <u>Marley Vynadeep' uPVC SABS 11 Gutter System:</u>				
153	110mm Eaves gutter with beaded front edge fixed to fascia brackets at maximum 1000mm centres.	m	12.20		
154	Extra over 110mm eaves gutter for stopped end.	No	4.00		
155	Extra over 110mm eaves gutter for outlet including boring 75mm diameter hole through gutter.	No	4.00		
156	75mm Diameter downpipes	m	11.00		
157	Extra over 75mm rainwater pipe for bend.	No	4.00		
	<u>"Charlog"</u>				
158	Charlog type VIP200 toilet with plastic seat and lid	No	4.00		
159	Charlog Bowl urinal with self-cleaning curtain valve (Addicom Echo) Smell Stop trap.	No	4.00		
160	Charlog Christy basin including fixing to walls	No	3.00		
	<u>WASTE UNIONS ETC</u>				
161	32mm "Cobra 301" waste union	No	3.00		
	<u>TRAPS ETC</u>				
	<u>Rubber</u>				
162	50mm Resealable S-Trap	No	3.00		
TOTAL CARRIED FORWARD					

8 BOYS
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>TAPS, VALVES, ETC</u>				
	<u>Brass</u>				
163	15mm "Ball-o-stop" valve	No	3.00		
	<u>Cobra Watertech</u>				
164	15mm, 111CP "Star" pillartap	No	3.00		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
165	50mm Pipes	m	1.50		
166	50mm Pipes chased in surface beds	m	2.00		
	<u>Extra over uPVC pipes for fittings</u>				
167	50mm Bend	No	3.00		
168	50mm Access bend	No	3.00		
169	50mm Air cowl	No	4.00		
170	40 x 50mm BSP adaptor	No	3.00		
	<u>WATER SUPPLIES</u>				
	<u>Class 2 copper pipes</u>				
171	15mm Pipes	m	1.50		
172	15mm Pipes chased into masonry or surface beds	m	4.50		
	<u>Extra over class 2 copper pipes for capillary fittings</u>				
173	15mm Fittings	No	3.00		
TOTAL CARRIED FORWARD					

8 BOYS
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>TANKS ETC</u>				
	<u>"JoJo" or similar approved Low Profile Rainwater Tank:</u>				
174	5000L "JoJo" Rotomoulded polyethylene rainwater storage tank and tank tap seated on top of and including 25Mpa concrete base size 2500 x 2500 x 500mm deep including all necessary excavation compaction of ground under base to 95% Mod AAshto including backfilling around and wood floating top of concrete base and including all necessary formwork to form edges	No	1.00		
175	Outlet union for 22mm copper pipe including hole through tank	No	1.00		
	<u>SUNDRIES</u>				
	<u>Note</u>				
	Where possible, all vent pipes must face Northerly. To achieve this, the gable end walls must be positioned facing East and West. This may differ from one site to another but, as far as possible, this should be observed. Kindly consult with Project Manager to confirm and seek a written instruction to confirm.				
176	110mm Diameter PVC Vent pipe complete with 200mm diameter fly-screen including fixing to walls with 110mm aluminium holder brackets at 1m intervals including cutting hole through roof covering and sealed with an approved flashing	No	2.00		
177	110mm PVC pipes in short lengths not exceeding 1m	No	2.00		
178	Fly Screen made of 500 x 500mm gauze fixed with cable ties to vent pipes	No	2.00		
	Under no circumstances must any of the piping be painted unless specifically ordered to do so by the Project Manager ONLY, with a written instruction supporting any deviation from this note. Failure to observe this will result in removal and replacement of painted piping with new				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS GLAZING					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 11</u> <u>GLAZING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GLAZING TO STEEL WITH PUTTY</u> <u>4mm Obscure "Sandblasted" glass</u>				
179	Panes exceeding 0,1m2 and not exceeding 0,5m2	m ²	1.40		
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> <u>3mm Silvered float glss copper backed mirror with 10mm bevelled and polished edges fixed with chromium plated dome capped mirror screws with rubber buffers to plug in brickwork or concrete</u>				
180	600 x 800mm High mirrors	No	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					8 BOYS PAINTWORK AMOUNT
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	
	<u>SECTION NO. 2</u> <u>BILL NO. 12</u> <u>PAINTWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PAINTWORK ETC TO NEW WORK</u> <u>ON FLOATED PLASTER</u> <u>Prepare and apply one alkaline resistant plaster primer, one under coat and two finishing coat of "Dulux" pearglo water paint as SABS Specification 1586 Grade 1 (White unless otherwise described)</u>				
181	On internal walls	m ²	49.30		
	<u>ON WOOD</u> <u>Prepare, prime with general purpose wood primer as SABS Specification 678 Type III and apply one under coat as SABS Specification 681 Type II, and two finishing coats of high gloss enamel paint as SABS Specification 630 Type I on wood</u>				
182	On timber doors	m ²	3.50		
	<u>ON FIBRE CEMENT</u> <u>Prepare, stop and apply flat oil paint to all screw heads, apply one coat alkali resistant primer to SABS 1416 and two coats acrylic emulsion paint for exterior use to SABS 1586 Grade I</u>				
183	On Facias and barge boards	m ²	7.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS

EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 13</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAK AWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
184	Trench (450mm wide) up to 500mm deep (13m long) for drain pipe	m ³	3.00		
185	Trench (900 mm wide) up to 1000m deep for infiltrator units	m ³	8.00		
186	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
187	110 x 50 mm uPVC reducer	No	1.00		
188	Quick4 High Capacity Kaytech chamber	No	5.00		
189	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
190	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
191	Backfilling to trench	m ³	3.00		
192	Backfilling around chamber and end cap units including berming over units as directed	m ³	5.00		
193	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	3.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

8 BOYS
SECTION SUMMARY

Bill No.	<u>SECTION NO. 2</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 ROOF COVERINGS	
	6 CARPENTRY AND JOINERY	
	7 IRONMONGERY	
	8 METALWORK	
	9 PLASTERING	
	10 PLUMBING	
	11 GLAZING	
	12 PAINTWORK	
	13 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

10 Girls
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
101	Pit hole	m ³	8.33		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Soft Rock	m ³	10.62		
103	Hard Rock	m ³	21.24		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
104	Backfilling to trenches, holes, pits etc	m ³	9.05		
	<u>The following to be lightly compacted</u>				
105	Selected topsoil spread and levelled on site including dressing to banks, berms, etc, watering and consolidating for an average depth of 150mm	m ²	24.82		
	<u>Coarse river sand filling supplied by the contractor</u>				
106	Under floors etc 150mm thick	m ³	4.62		
	<u>Hardcore filling</u>				
107	Class G7, under floors, steps, pavings etc. 50mm thick	m ³	1.54		
	<u>Compaction of surfaces</u>				
108	Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density	m ²	15.82		
TOTAL CARRIED FORWARD					

					10 Girls EARTHWORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
109	<u>Prescribed density tests on filling</u> Modified AASHTO Density test	No	8.00		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
110	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	15.82		
111	To bottoms and sides of trenches etc	m ²	64.34		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

10 Girls					
CONCRETE, FORMWORK AND REINFORCEMENT					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.				
TOTAL CARRIED FORWARD					

10 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
112	Surface beds 85mm thick to building cast in panels on waterproofing	m ³	1.43		
113	Pit floor slab 50mm thick (where ordered)	m ³	2.08		
114	Aprons cast in panels 85mm thick 800mm wide around building	m ³	0.83		
	<u>TEST BLOCKS</u>				
115	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	15.00		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing to top surfaces of concrete smooth with a woodfloat finish to currents and falls</u>				
116	Aprons, surface beds, etc	m ²	33.23		
	<u>Finishing to top surfaces of concrete smooth with a steel float finish</u>				
117	Aprons, surface beds, etc	m ²	18.23		
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to soffits</u>				
118	To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	23.51		
	<u>SMOOTH FORMWORK</u>				
	<u>Smooth formwork to sides</u>				
119	Edges not exceeding 100mm wide or high	m	10.88		
TOTAL CARRIED FORWARD					

10 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Smooth formwork to form</u>				
120	Opening not exceeding 100mm diameter girth through 170mm slab to suit vent pipes	No	6.00		
121	330mm diameter opening through 170mm slab to suit desludge plug	No	6.00		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
122	6mm Joints not exceeding 100mm high	m	4.90		
123	10mm Joints not exceeding 100mm high	m	2.40		
124	Vertical Joints	m	11.76		
	<u>REINFORCEMENT</u>				
	<u>Mild and high tensile steel reinforcement to structural concrete work</u>				
125	2 x Y16 x 550mm apart on 110mm high R8 stools at 600mm c/c in strip footings, where ordered	kg	171.00		
	<u>Fabric reinforcement</u>				
126	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	11.59		
	<u>PRECAST CONCRETE</u>				
127	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	20.00		
128	630 x 1980 x 150mm precast concrete inspection cover slab for pit (Type A), incl plug	No	1.00		
129	630 x 1870 x 150mm precast concrete inspection cover slab for pit (Type B), incl plug	No	1.00		
130	630 x 880 x 150mm precast concrete inspection cover slab for pit (Type C), incl plug	No	1.00		
131	630 x 1980 x 150mm precast concrete inspection cover slab for pit (Type D), incl plug	No	1.00		
132	630 x 1980 x 150mm precast concrete inspection cover slab for pit (Type E), incl plug	No	1.00		
133	630 x 880 x 150mm precast concrete inspection cover slab for pit (Type F), incl plug	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					10 Girls MASONRY
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS</u> <u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
134	One brick walls	m ²	104.10		
	<u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar</u>				
135	Piers 230 x 230 x 2100mm high tied into one brick wall	No	2.00		
136	Half brick walls	m ²	20.77		
137	One brick walls including 2x one brick columns	m ²	14.64		
138	Half brick walls in beamfilling	m ²	3.00		
TOTAL CARRIED FORWARD					

					10 Girls MASONRY
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
139	75mm Wide reinforcement built in horizontally	m	89.60		
140	150mm Wide reinforcement built in horizontally every third course	m	101.92		
	<u>Fabcon prestressed fabricated lintels</u>				
141	110 x 75mm Lintels in lengths not exceeding 3m length	m	14.25		
	<u>Galvanised hoop iron cramps, tiles, etc</u>				
142	1,6mm x 30mm Galvanised hoop iron roof strap 1600mm long with one end fixed to timber and other end built into brickwork minimum 6 courses deep	No	4.00		
	<u>Bagging</u>				
143	Item on brick walls	m ²	14.63		
	<u>FACE BRICKWORK</u>				
	<u>Face brickwork of "Firelight Satin" face bricks pointed with recessed horizontal and vertical joints</u>				
144	Extra over brickwork for face brickwork in superstructure	m ²	21.62		
	internal gable	m ²	3.00		
144	Extra over brickwork for brick on edge header course lintel pointed on soffit and one face	m	1.14		
145	Fair cutting faced brickwork around pipes not exceeding 100mm diameter	No	4.00		
146	Fair raking cutting	m	2.60		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

10 Girls
WATERPROOFING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ins and turn-downs <u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
147	Under surface beds	m ²	16.59		
	<u>Two coats Brixal bitumen emulsion waterproof coating</u>				
148	On bagged brick walls	m ²	14.63		
	<u>JOINT SEALANTS ETC</u>				
	<u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
149	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	4.90		
150	10mm Joint in floors and brickwork including raking out expansion joint filler as necessary	m	2.40		
151	Vertical joint	m	11.76		
	<u>Silicone sealing compound</u>				
152	Bostik silicone sealant applied with a pressure caulking gun sealing around metal window and timber door frames	m	10.38		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					10 Girls
					ROOF COVERING
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 5</u> <u>ROOF COVERING</u> The Tenderer is referred to the relevant clause in the separate document Model Preambles for Trades (2008 Edition). <u>ROOF COVERINGS,ETC.</u> <u>METAL SHEETING AND ACCESSORIES</u> <u>0.5mm "Safinta Widedeck" raincloud corrugated sheeting fixed to timber purlins or rails with 75mm long "El Toro" drive screws,in strict accordance with manufacturer's specifications.</u>				
153	Roof covering with pitch not exceeding 25 degrees.	m ²	61.20		
154	Ridge Capping	m	9.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

10 Girls CARPENTRY AND JOINERY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 6</u> <u>CARPENTRY AND JOINERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>ROOFS ETC</u> Tenderers are to make allowance in their rates for any additional expense in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building In addition, TR1 and TR2 certificates are required in respect of the truss construction and must be provided by an accredited MITEK or equal truss manufacturer or by a Registered Truss Engineer <u>Prefabricated roof trusses, etc.</u> All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER trusses and bolted trusses with lapped members Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is SAFINTA WIDEDECK roof sheeting on 50 x 76mm timber purlins. The dimensions in the description of the trusses are nominal and actual measurements are to be obtained from the Architect and/or the site before design or fabrication commences				
TOTAL CARRIED FORWARD					

10 Girls

CARPENTRY AND JOINERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>ROOF CONSTRUCTION</u>				
	<u>Sawn softwood</u>				
155	38 x 114mm Wall plates including bed level in cement mortar	m	13.78		
156	38 x 114mm Longitudinal bracing	m	4.80		
157	50 x 76mm Cross bracing	m	16.00		
158	50 x 76mm Purlins	m	72.00		
159	50 x 75mm Splayed purlins	m	18.00		
160	50 x 76mm Trimmers	m	13.60		
161	Prefabricated Howe type roof trusses approximately 5,50m span x 0,95m high extreme spaced not exceeding 1,2m centers, from approximately 2,37m above ground level with 600mm eaves overhang projection on both sides	No	8.00		
	<u>Sundries</u>				
162	Wrought faces on sawn timbers	m ²	55.01		
163	Two coats creosote on sawn timbers [For all exposed timbers]	m ²	19.20		
164	Teco two way hurricane clips	No	64.00		
	<u>EAVES, VERGES, ETC</u>				
	<u>"Everite FC77" Fiber cement or similar approved</u>				
165	9 x 225mm Fascia boards including galv steel H-profile jointing strips	m	18.00		
166	9 x 225mm L-shaped barge boards including galv steel H-profile jointing strips	m	13.60		
TOTAL CARRIED FORWARD					

10 Girls

CARPENTRY AND JOINERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
167	<u>DOORS, ETC</u> <u>TIMBER DOORS AS TDM OR SIMILAR APPROVED</u> <u>Note:</u> All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tenon where is exposed on the outside edge of stiles and where the tenon is wedged, to form a dovetailed shape a) Rates must include for hanging {frames are elsewhere measured unless otherwise described) b) Tenderers are advised to refer to the Architect's detailed drawings, schedules, etc., which indicate the various door types and references where applicable. c) All opening sizes must be verified on site before hanging commences. Additional costs for trimming of doors, etc, must be included in the overall rate. <u>Wrought SA Pine doors hung to steel frames</u> 40mm Framed, ledged and braced battened door 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces filled in with 90mm V-jointed one side boarding	No	10.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					10 Girls IRONMONGERY
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 7</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> 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 - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated <u>HINGES, BOLTS, ETC.</u> <u>Solid</u>				
168	150mm Brass barrel bolt.	No	20.00		
	<u>LOCKS</u> <u>Solid</u>				
169	Three lever lock set and chromium plated door handles	No	10.00		
	<u>Union</u>				
170	3122 - 51 Padlock	No	1.00		
TOTAL CARRIED FORWARD					

					10 Girls IRONMONGERY
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SUNDRIES</u>				
171	38mm Diameter red rubber door stop screwed to walls	No	10.00		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>Signage to be 3mm perspex sheet 60mm high with 30mm high "helvetica" lettering engraved and painted comprising</u>				
172	Five characters to read (Girls)	No	1.00		
173	Eleven characters to read (Girls Toilet)	No	1.00		
	<u>BATTHROOM FITTINGS</u>				
174	Chromium plated thief proof toilet roll holder	No	10.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					10 Girls METALWORK AMOUNT
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	
	<u>SECTION NO. 3</u> <u>BILL NO. 8</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>WELDED SCREENS, GATES, ETC</u> <u>Hot dip galvanised after fabrication mild steel framed and welded gates formed of hollow section framing, bracing, etc bent at square corners and with scribed and mitred intersections, etc (No painting required)</u>				
175	Single gate and frame in one leaf overall size 880 x 2250mm high with vertical and horizontal bars welded on including gate lock and accessories	No	1.00		
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC (No painting required)</u> <u>Standard school windows fitted with 20 x 5mm galvanised burglar bars to NBP2 to opening sashes</u>				
176	Window 1022 x 654mm high (NE2)	NO	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

					10 Girls PLASTERING
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 9</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SCREEDS</u> <u>Cement mortar Screed steel trowelled on concrete</u>				
177	20mm Thick on floors and landings	m ²	16.05		
	<u>INTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
178	On walls	m ²	179.39		
	<u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
179	On external pit walls above ground	m ²	1.42		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

10 Girls
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 10</u> <u>PLUMBING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>RAINWATER DISPOSAL</u> <u>Marley Vynadeep' uPVC SABS 11 Gutter System:</u>				
180	110mm Eaves gutter with beaded front edge fixed to fascia brackets at maximum 1000mm centres.	m	18.00		
181	Extra over 110mm eaves gutter for stopped end.	No	4.00		
182	Extra over 110mm eaves gutter for outlet including boring 75mm diameter hole through gutter.	No	4.00		
183	75mm Diameter downpipes	m	10.84		
184	Extra over 75mm rainwater pipe for bend.	No	4.00		
	<u>"Charlog"</u>				
185	Charlog type VIP200 toilet with plastic seat and lid	No	10.00		
186	Charlog Christy basin including fixing to walls	No	6.00		
	<u>WASTE UNIONS ETC</u>				
187	32mm "Cobra 301" waste union	No	6.00		
	<u>TRAPS ETC</u>				
	<u>Rubber</u>				
188	50mm Resealable S-Trap	No	6.00		
TOTAL CARRIED FORWARD					

10 Girls
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					-
	<u>TAPS, VALVES, ETC</u>				
	<u>Brass</u>				
189	15mm "Ball-o-stop" valve	No	6.00		
	<u>Cobra Watertech</u>				
190	15mm, 111CP "Star" pillartap	No	6.00		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
191	50mm Pipes	m	3.00		
192	50mm Pipes chased in surface beds	m	3.00		
	<u>Extra over uPVC pipes for fittings</u>				
193	50mm Bend	No	6.00		
194	50mm Access bend	No	6.00		
195	50mm Air cowl	No	10.00		
196	40 x 50mm BSP adaptor	No	6.00		
	<u>WATER SUPPLIES</u>				
	<u>Class 2 copper pipes</u>				
197	15mm Pipes	m	3.00		
198	15mm Pipes chased into masonry or surface beds	m	9.00		
	<u>Extra over class 2 copper pipes for capillary fittings</u>				
199	15mm Fittings	No	6.00		
TOTAL CARRIED FORWARD					

10 Girls
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>TANKS ETC</u>				
	<u>"JoJo" or similar approved Low Profile Rainwater Tank:</u>				
200	5000L "JoJo" Rotomoulded polyethylene rainwater storage tank and tank tap seated on top of and including 25Mpa concrete base size 2500 x 2500 x 500mm deep including all necessary excavation compaction of ground under base to 95% Mod AAshto including backfilling around and wood floating top of concrete base and including all necessary formwork to form edges	No	1.00		
201	Outlet union for 22mm copper pipe including hole through tank	No	1.00		
	<u>SUNDRIES</u>				
	<u>Note</u>				
	Where possible, all vent pipes must face Northerly. To achieve this, the gable end walls must be positioned facing East and West. This may differ from one site to another but, as far as possible, this should be observed. Kindly consult with Project Manager to confirm and seek a written instruction to confirm.				
202	110mm Diameter PVC Vent pipe complete with 200mm diameter fly-screen including fixing to walls with 110mm aluminium holder brackets at 1m intervals including cutting hole through roof covering and sealed with an approved flashing	No	6.00		
203	110mm PVC pipes in short lengths not exceeding 1m	No	6.00		
204	Fly Screen made of 500 x 500mm gauze fixed with cable ties to vent pipes	No	6.00		
	Under no circumstances must any of the piping be painted unless specifically ordered to do so by the Project Manager ONLY, with a written instruction supporting any deviation from this note. Failure to observe this will result in removal and replacement of painted piping with new				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

						10 Girls GLAZING
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
	<u>SECTION NO. 3</u> <u>BILL NO. 11</u> <u>GLAZING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GLAZING TO STEEL WITH PUTTY</u> <u>4mm Obscure "Sandblasted" glass</u>					
205	Panes exceeding 0,1m2 and not exceeding 0,5m2 <u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> <u>3mm Silvered float glss copper backed mirror with 10mm bevelled and polished edges fixed with chromium plated dome capped mirror screws with rubber buffers to plug in brickwork or concrete</u>	m ²	2.11			
206	600 x 800mm High mirrors	No	4.00			
TOTAL CARRIED FORWARD TO SECTION SUMMARY						

					10 Girls PAINTWORK AMOUNT
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	
	<u>SECTION NO. 3</u> <u>BILL NO. 12</u> <u>PAINTWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PAINTWORK ETC TO NEW WORK</u> <u>ON FLOATED PLASTER</u> <u>Prepare and apply one alkaline resistant plaster primer, one under coat and two finishing coat of "Dulux" pearglo water paint as SABS Specification 1586 Grade 1 (White unless otherwise described)</u>				
207	On internal walls	m ²	64.37		
	<u>ON WOOD</u> <u>Prepare, prime with general purpose wood primer as SABS Specification 678 Type III and apply one under coat as SABS Specification 681 Type II, and two finishing coats of high gloss enamel paint as SABS Specification 630 Type I on wood</u>				
208	On timber doors	m ²	32.40		
	<u>ON FIBRE CEMENT</u> <u>Prepare, stop and apply flat oil paint to all screw heads, apply one coat alkali resistant primer to SABS 1416 and two coats acrylic emulsion paint for exterior use to SABS 1586 Grade I</u>				
209	On Facias and barge boards	m ²	9.65		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

10 Girls
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 13</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAK AWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
210	Trench (450mm wide) up to 500mm deep (13m long) for drain pipe	m ³	3.00		
211	Trench (900 mm wide) up to 1000mm deep for infiltrator units	m ³	7.00		
212	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
213	110 x 50 mm uPVC reducer	No	1.00		
214	Quick4 High Capacity Kaytech chamber	No	4.00		
215	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
216	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
217	Backfilling to trench	m ³	3.00		
218	Backfilling around chamber and end cap units including berming over units as directed	m ³	4.00		
219	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	3.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

10 Girls
SECTION SUMMARY

Bill No.	<u>SECTION NO. 3</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 ROOF COVERINGS	
	6 CARPENTRY AND JOINERY	
	7 IRONMONGERY	
	8 METALWORK	
	9 PLASTERING	
	10 PLUMBING	
	11 GLAZING	
	12 PAINTWORK	
	13 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

EXTERNAL WORKS					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>EXTERNAL WORKS</u> <u>BILL No 1</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PEDESTRIAN WALKWAY & VEHICULAR ACCESS FOR PIT DESLUDGING</u> <u>SITE CLEARANCE ETC</u> 101 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees etc. not exceeding 300mm girth 102 Stripping average 150mm thick layer of top soil and stockpiling on site <u>EXCAVATION, FILLING, ETC</u> 103 Reduce levels under paving, etc. 104 Cut to fill including breaking down oversize material where necessary and compact to 95% Mod AASHTO density for vehicular access for pit desludging (Prov) <u>Extra over all excavations for carting, loading and dumping surplus excavated material and vegetation{no allowance made for increase in bulk}:</u> 105 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor <u>Hardcore filling</u> 106 Class G7, under floors, steps, pavings etc. <u>Compaction of surfaces</u> 107 Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density <u>SOIL POISONING</u> <u>Soil insecticide</u> 108 Weed killer under paving etc				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

EXTERNAL WORKS					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>EXTERNAL WORKS</u>				
	<u>BILL No 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
109	Walkway 20m x 100mm thick x 900mm wide	m ³	2		
	<u>TEST BLOCKS</u>				
110	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing to top surfaces of concrete smooth with a wood float finish</u>				
111	Surface beds, slabs, aprons, verandahs etc to falls	m ²	18		
112	16mm Quarter round corner tool finish to edges of all exposed concrete surfaces	m	40		
	<u>SMOOTH FORMWORK</u>				
	<u>Smooth formwork to sides</u>				
113	Edge not exceeding 100mm high	m	40		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>				
114	6mm Joints not exceeding 100mm high	m	6		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
115	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	18		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

SECTION SUMMARY				
Bill No.	<u>SECTION No 4</u>			
	<u>SECTION SUMMARY</u>			
	1 Earthworks			
	2 Concrete, Formwork and Reinforcement			
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	PROVISIONAL SUMS
					AMOUNT
	<u>SECTION No 5</u> <u>PROVISIONAL SUMS</u> <u>BILL No 1</u> <u>SUMS STATED PROVISIONALLY BY ENGINEER</u> The following work will be undertaken on instruction by the Engineer and will be measured and priced at contract rates				
1	Allow the sum of R15 000.00 (Fifteen Thousand Rand) per school for the refurbishment of existing serviceable toilet buildings at the school, as directed by the Engineer	Sum	1	R 15 000.00	R 15 000.00
2	Allow the sum of R25 000.00 (Twenty five Thousand Rand) per school for the refurbishment of existing rainwater harvesting infrastructure on existing school buildings, as directed by the Engineer.	Sum	1	R 25 000.00	R 25 000.00
3	Allow the sum of R 10 000 (at R 2000 per toilet) to desludge, dismantle, remove from site to Client's stores, seal, backfill & compact around pit to five Enviro Loos, or other temporary toilets, only as directed by the Engineer (Prov)	Sum	1	R 10 000.00	R 10 000.00
4	Allow the sum of R 50 000 in the event of theft, vandalism and breakage since the previous contract was abandoned.	Sum	1	R 50 000.00	R 50 000.00
5	Contractor's overheads, charges and profit on items 1 - 3 above	%	1	12	R 12 000.00
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY					R 112 000.00

		SCHOOL SUMMARY	
SECTION NO	GOBUME HS: 3F3M1D; 8B; 10G	TOTAL	
	<u>SCHOOL SUMMARY</u>		
1	3 Female, 3 Male, 1 Disabled staff toilet block		
2	8 Boys toilet block		
3	10 Girls toilet block		
4	External Works (Provisional)		
5	Provisional Sums	112 000.00	
TOTAL CARRIED FORWARD TO FINAL SUMMARY			

**2 FEMALE, 2 MALE AND 1 DISABLED
EARTHWORKS**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 1</u> <u>EARTHWORKS, ETC.</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Prescribed density tests on filling</u> 101 Modified AASHTO Density test <u>SOIL POISONING</u> <u>Soil insecticide</u> 102 To bottoms and sides of trenches etc				
		No	15.00		
		m ²	136.10		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
103	6mm Joints not exceeding 100mm high	m	15.00		
	<u>PRECAST CONCRETE</u>				
104	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	22.00		
105	905 x 300 x 100mm precast concrete (2kg reinforcing each) inspection cover slabs for tank (Type B), with one pair of steel handles suitable for grip	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
MASONRY**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar</u>				
106	Half brick walls	m ²	3.00		
	<u>BRICKWORK SUNDRIES</u> <u>Fabcon prestressed fabricated lintels</u>				
107	110 x 75mm Lintels in lengths not exceeding 3m length	m	22.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Silicone sealing compound</u>				
108	Bostik silicone sealant applied with a pressure caulking gun sealing around metal window and timber door frames	m	11.90		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
EXTERNAL WORKS**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 5</u> <u>EXTERNAL WORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAK AWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
109	Trench (450mm wide) up to 500mm deep (13m long) for drain pipe	m ³	3.00		
110	Trench (900 mm wide) up to 1000mm deep for infiltrator units	m ³	6.00		
111	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
112	110 x 50 mm uPVC reducer	No	1.00		
113	Quick4 High Capacity Kaytech chamber	No	8.00		
114	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
115	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
116	Backfilling to trench	m ³	3.00		
117	Backfilling around chamber and end cap units including berming over units as directed	m ³	4.00		
118	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
SECTION SUMMARY

Bill No.	<u>SECTION NO. 1</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

**4 BOYS
EARTHWORKS**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 1</u> <u>EARTHWORKS, ETC.</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SITE CLEARANCE ETC</u>				
101	Pit hole	m ³	34		
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
102	Pit hole	m ³	3		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
103	Soft Rock	m ³	1		
104	Hard Rock	m ³	2		
	<u>Soilcrete backfilling with 8% batch mixing</u>				
105	Backfilling behind pit walls	m ³	17		
	<u>Prescribed density tests on filling</u>				
106	Modified AASHTO Density test	No	3		
TOTAL CARRIED FORWARD SECTION SUMMARY					

4 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25MPa/19mm concrete</u>				
107	Strip footings	m ³	4		
	<u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
108	Pit cover slab 85mm thick	m ³	1		
TOTAL CARRIED FORWARD					

4 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
109	<u>TEST BLOCKS</u> Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	9		
110	<u>ROUGH FORMWORK</u> <u>Rough formwork to soffits</u> To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	9		
111	<u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u> 6mm Joints not exceeding 100mm high	m	3		
112	<u>REINFORCEMENT</u> Type 617 fabric reinforcement in concrete cover slab, etc	m ²	9		
113	<u>PRECAST CONCRETE</u> 990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	4		
TOTAL CARRIED FORWARD SECTION SUMMARY					

**4 BOYS
MASONRY**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
114	One brick walls	m ²	10		
	<u>Brickwork of NFP bricks in class II mortar</u>				
115	Piers 230 x 230 x 2100mm high tied into one brick wall	No	4		
	<u>BRICKWORK SUNDRIES</u>				
116	110 x 75mm Lintels in lengths not exceeding 3m length	m	2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**4 BOYS
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
117	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	5		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
METALWORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
118	Frame for door 813 x 2032mm high	No	1		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 6</u> <u>PLUMBING (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>"Charlog"</u> 119 Charlog Bowl urinal with self-cleaning curtain valve (Addicom Echo) Smell Stop trap. <u>SUNDRIES</u> <u>Note</u> Where possible, all vent pipes must face Northerly. To achieve this, the gable end walls must be positioned facing East and West. This may differ from one site to another but, as far as possible, this should be observed. Kindly consult with Project Manager to confirm and seek a written instruction to confirm. 120 110mm Diameter PVC Vent pipe complete with 200mm diameter fly-screen including fixing to walls with 110mm aluminium holder brackets at 1m intervals including cutting hole through roof covering and sealed with an approved flashing 121 110mm PVC pipes in short lengths not exceeding 1m 122 Fly Screen made of 500 x 500mm gauze fixed with cable ties to vent pipes Under no circumstances must any of the piping be painted unless specifically ordered to do so by the Project Manager ONLY, with a written instruction supporting any deviation from this note. Failure to observe this will result in removal and replacement of painted piping with new	No	2		
		No	2		
		No	2		
		No	2		
TOTAL CARRIED FORWARD SECTION SUMMARY					

4 BOYS
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 7</u> <u>EXTERNAL WORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAKAWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
123	Trench (450mm wide) up to 500mm deep (13m long) for drain pipe	m ³	5		
124	Trench (900 mm wide) up to 1000m deep for infiltrator units	m ³	6		
125	110mm Normal duty uPVC sewer pipe to SABS 791	m	12		
126	110 x 50 mm uPVC reducer	No	1		
127	Quick4 High Capacity Kaytech chamber	No	3		
128	Quick4 High Capacity Kaytech Multiport End Cap	No	2		
129	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
130	Backfilling to trench	m ³	2		
131	Backfilling around chamber and end cap units including berming over units as directed	m ³	4		
132	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
SECTION SUMMARY

Bill No.	<u>SECTION NO. 2</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 METALWORK	
	6 PLUMBING	
	7 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

6 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 1</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
101	6mm Joints not exceeding 100mm high	m	5		
102	<u>PRECAST CONCRETE</u> 990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	8		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 2</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS</u> <u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
103	One brick walls	m ²	31		
	<u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar</u>				
104	Piers 230 x 230 x 2100mm high tied into one brick wall	No	4		
	<u>BRICKWORK SUNDRIES</u> <u>Fabcon prestressed fabricated lintels</u>				
105	110 x 75mm Lintels in lengths not exceeding 3m length	m	4		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
WATERPROOFING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 3</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
106	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	5		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
METALWORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 4</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for half brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
107	Frame for door 813 x 2032mm high	No	1		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
PLASTERING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 5</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
108	On external pit walls above ground	m ²	5		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
SECTION SUMMARY

Bill No.	<u>SECTION NO. 3</u>	
	<u>SECTION SUMMARY</u>	
	1 CONCRETE FORMWORK AND REINFORCEMENT	
	2 MASONRY	
	3 WATERPROOFING	
	4 METALWORK	
	5 PLASTERING	
TOTAL CARRIED FORWARD TO SUMMARY		

					EXTERNAL WORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION No 4 <u>EXTERNAL WORKS</u> <u>BILL No 1</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PEDESTRIAN WALKWAY & VEHICULAR ACCESS FOR PIT DESLUDGING</u> <u>SITE CLEARANCE ETC</u>				
101	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees etc. not exceeding 300mm girth	m ²	40		
102	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	40		
	<u>EXCAVATION, FILLING, ETC</u>				
103	Reduce levels under paving, etc.	m ³	6		
104	Cut to fill including breaking down oversize material where necessary and compact to 95% Mod AASHTO density for vehicular access for pit desludging (Prov)	m ³	30		
	<u>Extra over all excavations for carting, loading and dumping surplus excavated material and vegetation{no allowance made for increase in bulk}:</u>				
105	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	4		
	<u>Hardcore filling</u>				
106	Class G7, under floors, steps, pavings etc.	m ³	6		
	<u>Compaction of surfaces</u>				
107	Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density	m ²	40		
	<u>SOIL POISONING</u> <u>Soil insecticide</u>				
108	Weed killer under paving etc	m ²	40		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					EXTERNAL WORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>EXTERNAL WORKS</u>				
	<u>BILL No 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
109	Walkway 40m x 100mm thck x 900mm wide	m ³	3.6		
	<u>TEST BLOCKS</u>				
110	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing to top surfaces of concrete smooth with a wood float finish</u>				
111	Surface beds, slabs, aprons, verandahs etc to falls	m ²	36		
112	16mm Quarter round corner tool finish to edges of all exposed concrete surfaces	m	80		
	<u>SMOOTH FORMWORK</u>				
	<u>Smooth formwork to sides</u>				
113	Edge not exceeding 100mm high	m	80		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>				
114	6mm Joints not exceeding 100mm high	m	12		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
115	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	36		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

SECTION SUMMARY				
1	SECTION No 4			
	EXTERNAL WORKS			
	SECTION SUMMARY			
2	Earthworks {Provisional}			
3	Concrete, Formwork and Reinforcement			
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY				

					PROVISIONAL SUMS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION No 5 PROVISIONAL SUMS SUMS STATED PROVISIONALLY BY ENGINEER The following work will be undertaken on instruction by the Engineer and will be measured and priced at contract rates				
1	Allow the sum of R15 000.00 (Fifteen Thousand Rand) per school for the refurbishment of existing serviceable toilet buildings at the school, as directed by the Engineer	Sum	1	R 15 000.00	R 15 000.00
2	Allow the sum of R25 000.00 (Twenty five Thousand Rand) per school for the refurbishment of existing rainwater harvesting infrastructure on existing school buildings, as directed by the Engineer.	Sum	1	R 25 000.00	R 25 000.00
3	Allow the sum of R 22 000 (at R 2000 per toilet) to desludge, dismantle, remove from site to Client's stores, seal, backfill & compact around pit to 11 Enviro Loos, or other temporary toilets, only as directed by the Engineer (Prov)	Sum	1	R 22 000.00	R 22 000.00
4	Allow the sum of R 50 000 in the event of theft, vandalism and breakage since the previous contract was abandoned.	Sum	1	R 50 000.00	R 50 000.00
5	Contractor's overheads, charges and profit on items 1 - 3 above	%	1	12	R 13 440.00
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY					R 125 440.00

		SCHOOL SUMMARY	
SECTION NO	HYMAN PS: 2F2M1D; 4B; 6G	TOTAL	
	<u>SCHOOL SUMMARY</u>		
1	2 Female, 2 Male, 1 Disabled staff toilet block		
2	4 Boys toilet block		
3	6 Girls toilet block		
4	External Works (Provisional)		
5	Provisional Sums	125 440.00	
TOTAL CARRIED FORWARD TO FINAL SUMMARY			

**2 FEMALE, 2 MALE AND 1 DISABLED
EARTHWORKS**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material not exceeding 2m deep</u>				
101	Trenches in reduced levels to pit floor	m ³	4.00		
102	Pit hole	m ³	55.00		
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
103	Pit hole	m ³	6.00		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
104	Soft Rock	m ³	1.78		
105	Hard Rock	m ³	3.57		
	<u>Soilcrete backfilling with 8% batch mixing</u>				
106	Backfilling behind pit walls	m ³	16.00		
	<u>Prescribed density tests on filling</u>				
107	Modified AASHTO Density test	No	6.00		
TOTAL CARRIED FORWARD SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.				
TOTAL CARRIED FORWARD					

2 FEMALE, 2 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
108	Pit cover slab 85mm thick	m ³	2.00		
	<u>TEST BLOCKS</u>				
109	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	2.00		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
110	6mm Joints not exceeding 100mm high	m	7.00		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
111	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	18.00		
	<u>PRECAST CONCRETE</u>				
112	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	6.00		
113	905 x 300 x 100mm precast concrete (2kg reinforcing each) inspection cover slabs for tank (Type B), with one pair of steel handles suitable for grip	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
114	Half brick walls	m ²	7.00		
115	One brick walls	m ²	49.00		
	<u>BRICKWORK SUNDRIES</u> <u>Fabcon prestressed fabricated lintels</u>				
116	110 x 75mm Lintels in lengths not exceeding 3m length	m	8.00		
TOTAL CARRIED FORWARD SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
117	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
IRONMONGERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 5</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded <u>HINGES, BOLTS, ETC.</u> <u>Solid</u>				
118	150mm Brass barrel bolt.	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
PLASTERING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 6</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
119	On external pit walls above ground	m ²	5.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
PLUMBING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 7</u> <u>PLUMBING (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>"Charlog"</u>				
120	Charlog type VIP200 toilet with plastic seat and lid	No	4.00		
	<u>SUNDRIES</u> <u>Note</u> Where possible, all vent pipes must face Northerly. To achieve this, the gable end walls must be positioned facing East and West. This may differ from one site to another but, as far as possible, this should be observed. Kindly consult with Project Manager to confirm and seek a written instruction to confirm.				
121	110mm Diameter PVC Vent pipe complete with 200mm diameter fly-screen including fixing to walls with 110mm aluminium holder brackets at 1m intervals including cutting hole through roof covering and sealed with an approved flashing	No	4.00		
122	110mm PVC pipes in short lengths not exceeding 1m	No	4.00		
123	Fly Screen made of 500 x 500mm gauze fixed with cable ties to vent pipes	No	4.00		
	Under no circumstances must any of the piping be painted unless specifically ordered to do so by the Project Manager ONLY, with a written instruction supporting any deviation from this note. Failure to observe this will result in removal and replacement of painted piping with new				
TOTAL CARRIED FORWARD SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
EXTERNAL WORKS**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 8</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAK AWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
124	Trench (900 mm wide) up to 1000mm deep for infiltrator units	m ³	5.00		
125	Quick4 High Capacity Kaytech chamber	No	2.00		
126	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
127	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
128	Backfilling around chamber and end cap units including berming over units as directed	m ³	3.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
SECTION SUMMARY

Bill No.	<u>SECTION NO. 1</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	3 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 IRONMONGERY	
	6 PLASTERING	
	7 PLUMBING	
	8 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

4 BOYS
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material not exceeding 2m deep</u>				
101	Trenches in reduced levels to pit floor	m ³	3.00		
102	Pit hole	m ³	34.00		
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
103	Pit hole	m ³	3.00		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
104	Soft Rock	m ³	1.15		
105	Hard Rock	m ³	2.31		
	<u>Soilcrete backfilling with 8% batch mixing</u>				
106	Backfilling behind pit walls	m ³	17.00		
	<u>Prescribed density tests on filling</u>				
107	Modified AASHTO Density test	No	3.00		
TOTAL CARRIED FORWARD SECTION SUMMARY					

4 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25MPa/19mm concrete</u>				
108	Strip footings	m ³	4.00		
	<u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
109	Pit cover slab 85mm thick	m ³	1.00		
TOTAL CARRIED FORWARD					

4 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
110	<u>TEST BLOCKS</u> Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	4.00		
111	<u>ROUGH FORMWORK</u> <u>Rough formwork to soffits</u> To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	9.00		
112	<u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u> 6mm Joints not exceeding 100mm high	m	3.00		
113	<u>REINFORCEMENT</u> <u>Fabric reinforcement</u> Type 617 fabric reinforcement in concrete cover slab, etc	m ²	9.00		
114	<u>PRECAST CONCRETE</u> 990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
115	One brick walls	m²	10.00		
	<u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
116	One brick walls	m²	6.00		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
117	Piers 230 x 230 x 2100mm high tied into one brick wall	No	4.00		
	<u>Fabcon prestressed fabricated lintels</u>				
118	110 x 75mm Lintels in lengths not exceeding 3m length	m	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**4 BOYS
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
119	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	5.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
METALWORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
120	Frame for door 813 x 2032mm high	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**4 BOYS
PLASTERING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 6</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cement plaster on brickwork</u>				
121	On external pit walls above ground	m ²	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 7</u> <u>PLUMBING (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>"Charlog"</u>				
121	Charlog type VIP200 toilet with plastic seat and lid	No	2.00		
	<u>WATER SUPPLIES</u> <u>Class 2 copper pipes</u>				
122	15mm Pipes	m	25.00		
123	15mm Pipes chased into masonry or surface beds	m	7.00		
	<u>Extra over class 2 copper pipes for capillary fittings</u>				
124	15mm Fittings	No	10.00		
TOTAL CARRIED FORWARD					

4 BOYS
PLUMBING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>TANKS ETC</u>				
	<u>"JoJo" or similar approved Low Profile Rainwater Tank:</u>				
124	500UL "JoJo" Rotomoulded polyethylene rainwater storage tank and tank tap seated on top of and including 25Mpa concrete base size 2500 x 2500 x 500mm deep including all necessary excavation compaction of ground under base to 95% Mod AAshto including backfilling around and wood floating top of concrete base and including all necessary formwork to form edges.	No	1.00		
125	Outlet union for 22mm copper pipe including hole through tank	No	1.00		
	<u>SUNDRIES</u>				
	<u>Note</u>				
	Where possible, all vent pipes must face Northerly. To achieve this, the gable end walls must be positioned facing East and West. This may differ from one site to another but, as far as possible, this should be observed. Kindly consult with Project Manager to confirm and seek a written instruction to confirm.				
126	110mm Diameter PVC Vent pipe complete with 200mm diameter fly-screen including fixing to walls with 110mm aluminium holder brackets at 1m intervals including cutting hole through roof covering and sealed with an approved flashing	No	2.00		
127	110mm PVC pipes in short lengths not exceeding 1m	No	2.00		
128	Fly Screen made of 500 x 500mm gauze fixed with cable ties to vent pipes	No	2.00		
	Under no circumstances must any of the piping be painted unless specifically ordered to do so by the Project Manager ONLY, with a written instruction supporting any deviation from this note. Failure to observe this will result in removal and replacement of painted piping with new				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 8</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAKAWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
129	Trench (900 mm wide) up to 1000m deep for infiltrator units	m ³	6.00		
130	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
131	110 x 50 mm uPVC reducer	No	1.00		
132	Quick4 High Capacity Kaytech chamber	No	3.00		
133	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
134	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
135	Backfilling around chamber and end cap units including berming over units as directed	m ³	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
SECTION SUMMARY

Bill No.	<u>SECTION NO. 2</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 METALWORK	
	6 PLASTERING	
	7 PLUMBING	
	8 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	EXTERNAL WORKS
					AMOUNT
	<u>SECTION No 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL No 1</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PEDESTRIAN WALKWAY & VEHICULAR ACCESS FOR PIT DESLUDGING</u> <u>SITE CLEARANCE ETC</u> 101 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees etc. not exceeding 300mm girth 102 Stripping average 150mm thick layer of top soil and stockpiling on site <u>EXCAVATION, FILLING, ETC</u> 103 Reduce levels under paving, etc. 104 Cut to fill including breaking down oversize material where necessary and compact to 95% Mod AASHTO density for vehicular access for pit desludging (Prov) <u>Extra over all excavations for carting, loading and dumping surplus excavated material and vegetation{no allowance made for increase in bulk}:</u> 105 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor <u>Hardcore filling</u> 106 Class G7, under floors, steps, pavings etc. <u>Compaction of surfaces</u> 107 Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density <u>SOIL POISONING</u> <u>Soil insecticide</u> 108 Weed killer under paving etc				
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

EXTERNAL WORKS					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u>				
	<u>BILL No 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
109	Walkway 8m x 100mm thick x 900mm wide	m ³	1		
	<u>TEST BLOCKS</u>				
110	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing to top surfaces of concrete smooth with a wood float finish</u>				
111	Surface beds, slabs, aprons, verandahs etc to falls	m ²	7.2		
112	16mm Quarter round corner tool finish to edges of all exposed concrete surfaces	m	16		
	<u>SMOOTH FORMWORK</u>				
	<u>Smooth formwork to sides</u>				
113	Edge not exceeding 100mm high	m	16		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>				
114	6mm Joints not exceeding 100mm high	m	2.4		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
115	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	7.2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

SECTION 3 - EXTERNAL WORKS

					PROVISIONAL SUMS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>PROVISIONAL SUMS</u> SUMS STATED PROVISIONALLY BY ENGINEER The following work will be undertaken on instruction by the Engineer and will be measured and priced at contract rates				
1	Allow the sum of R15 000.00 (Fifteen Thousand Rand) per school for the refurbishment of existing serviceable toilet buildings at the school, as directed by the Engineer	Sum	1	R 15 000.00	R 15 000.00
2	Allow the sum of R25 000.00 (Twenty five Thousand Rand) per school for the refurbishment of existing rainwater harvesting infrastructure on existing school buildings, as directed by the Engineer.	Sum	1	R 25 000.00	R 25 000.00
3	Allow the sum of R 10 000 (at R 2000 per toilet) to desludge, dismantle, remove from site to Client's stores, seal, backfill & compact around pit to five Enviro Loos, or other temporary toilets, only as directed by the Engineer (Prov)	Sum	1	R 10 000.00	R 10 000.00
4	Allow the sum of R 50 000 in the event of theft, vandalism and breakage since the previous contract was abandoned.	Sum	1	R 50 000.00	R 50 000.00
5	Contractor's overheads, charges and profit on items 1 - 3 above	%	1	12	R 12 000.00
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY					R 112 000.00

		SCHOOL SUMMARY	
SECTION NO	MANDLENDODA SPS: 2F2M1D; 4B	TOTAL	
	<u>SCHOOL SUMMARY</u>		
1	2 Female, 2 Male, 1 Disabled staff toilet block		
2	4 Boys toilet block		
3	External Works (Provisional)		
4	Provisional Sums	112 000.00	
TOTAL CARRIED FORWARD TO FINAL SUMMARY			

2 FEMALE, 2 MALE AND 1 DISABLED
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
101	Pit hole	m ³	4.63		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Soft Rock	m ³	6.18		
103	Hard Rock	m ³	12.35		
	<u>Prescribed density tests on filling</u>				
104	Modified AASHTO Density test	No	3.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
105	Pit cover slab 85mm thick	m ³	4.00		
106	<u>TEST BLOCKS</u> Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	3.00		
TOTAL CARRIED FORWARD					

**2 FEMALE, 2 MALE AND 1 DISABLED
 CONCRETE, FORMWORK AND REINFORCEMENT**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
107	6mm Joints not exceeding 100mm high	m	2.00		
	<u>REINFORCEMENT</u>				
	<u>Mild and high tensile steel reinforcement to structural concrete work</u>				
	<u>Fabric reinforcement</u>				
108	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	4.00		
	<u>PRECAST CONCRETE</u>				
109	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	6.00		
110	905 x 300 x 100mm precast concrete (2kg reinforcing each) inspection cover slabs for tank (Type B), with one pair of steel handles suitable for grip	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
111	Half brick walls	m ²	2.34		
	<u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
112	One brick walls	m ²	27.38		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
113	Piers 230 x 230 x 2100mm high tied into one brick wall	No	2.00		
	<u>Fabcon prestressed fabricated lintels</u>				
114	110 x 75mm Lintels in lengths not exceeding 3m length	m	8.00		
TOTAL CARRIED FORWARD SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> 115 6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary <u>Silicone sealing compound</u>	m	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
IRONMONGERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 5</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded <u>HINGES, BOLTS, ETC.</u> <u>Solid</u>				
116	150mm Brass barrel bolt.	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
PLASTERING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 6</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
117	On external pit walls above ground	m ²	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
SECTION SUMMARY

Bill No.	<u>SECTION NO. 1</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 IRONMONGERY	
	6 PLASTERING	
TOTAL CARRIED FORWARD TO SUMMARY		

4 Girls
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
101	Pit hole	m ³	4.21		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Hard Rock	m ³	5.51		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
103	Pit cover slab 85mm thick	m ³	4.00		
104	<u>TEST BLOCKS</u> Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	3.00		
TOTAL CARRIED FORWARD					

4 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to soffits</u>				
105	To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	35.29		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
106	6mm Joints not exceeding 100mm high	m	4.90		
	<u>REINFORCEMENT</u>				
	<u>Mild and high tensile steel reinforcement to structural concrete work</u>				
	<u>Fabric reinforcement</u>				
107	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	4.00		
	<u>PRECAST CONCRETE</u>				
108	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	8.00		
TOTAL CARRIED FORWARD SECTION SUMMARY					

4 Girls
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
108	One brick walls	m ²	30.68		
	<u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar</u>				
109	Piers 230 x 230 x 2100mm high tied into one brick wall	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 Girls
WATERPROOFING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
110	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> 6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	4.90		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 Girls
METALWORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
111	Frame for door 813 x 2032mm high	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 Girls
PLASTERING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 6</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
112	On external pit walls above ground	m ²	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 Girls
SECTION SUMMARY

Bill No.	<u>SECTION NO. 2</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 METALWORK	
	6 PLASTERING	
TOTAL CARRIED FORWARD TO SUMMARY		

EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION No 3 EXTERNAL WORKS BILL No 1 EARTHWORKS (PROVISIONAL) SUPPLEMENTARY PREAMBLES For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder PEDESTRIAN WALKWAY & VEHICULAR ACCESS FOR PIT DESLUDGING SITE CLEARANCE ETC				
101	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees etc. not exceeding 300mm girth	m ²	8		
102	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	8		
	EXCAVATION, FILLING, ETC				
103	Reduce levels under paving, etc.	m ³	1.2		
104	Cut to fill including breaking down oversize material where necessary and compact to 95% Mod AASHTO density for vehicular access for pit desludging (Prov)	m ³	5		
	Extra over all excavations for carting, loading and dumping surplus excavated material and vegetation{no allowance made for increase in bulk}:				
105	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1		
	Hardcore filling				
106	Class G7, under floors, steps, pavings etc.	m ³	1.2		
	Compaction of surfaces				
107	Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density	m ²	8		
	SOIL POISONING				
	Soil insecticide				
108	Weed killer under paving etc	m ²	8		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					EXTERNAL WORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 3</u> <u>EXTERNAL WORKS</u> <u>BILL No 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u> <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
109	Walkway 8m x 100mm thick x 900mm wide	m ³	1		
	<u>TEST BLOCKS</u> 110 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	<u>CONCRETE SUNDRIES</u> <u>Finishing to top surfaces of concrete smooth with a wood float finish</u>				
111	Surface beds, slabs, aprons, verandahs etc to falls	m ²	7.2		
112	16mm Quarter round corner tool finish to edges of all exposed concrete surfaces	m	16		
	<u>SMOOTH FORMWORK</u> <u>Smooth formwork to sides</u>				
113	Edge not exceeding 100mm high	m	16		
	<u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>				
114	6mm Joints not exceeding 100mm high	m	2.4		
	<u>REINFORCEMENT</u> <u>Fabric reinforcement</u>				
115	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	7.2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

SECTION SUMMARY				
1	SECTION No 3			
	EXTERNAL WORKS			
	SECTION SUMMARY			
1	Earthworks {Provisional}			
2	Concrete, Formwork and Reinforcement			
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY				

					PROVISIONAL SUMS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>PROVISIONAL SUMS</u> <u>BILL No 1</u> <u>SUMS STATED PROVISIONALLY BY ENGINEER</u> The following work will be undertaken on instruction by the Engineer and will be measured and priced at contract rates				
1	Allow the sum of R15 000.00 (Fifteen Thousand Rand) per school for the refurbishment of existing serviceable toilet buildings at the school, as directed by the Engineer	Sum	1	R 15 000.00	R 15 000.00
2	Allow the sum of R25 000.00 (Twenty five Thousand Rand) per school for the refurbishment of existing rainwater harvesting infrastructure on existing school buildings, as directed by the Engineer.	Sum	1	R 25 000.00	R 25 000.00
3	Allow the sum of R 10 000 (at R 2000 per toilet) to desludge, dismantle, remove from site to Client's stores, seal, backfill & compact around pit to five Enviro Loos, or other temporary toilets, only as directed by the Engineer (Prov)	Sum	1	R 10 000.00	R 10 000.00
4	Allow the sum of R 50 000 in the event of theft, vandalism and breakage since the previous contract was abandoned.	Sum	1	R 50 000.00	R 50 000.00
5	Contractor's overheads, charges and profit on items 1 - 3 above	%	1	12	R 12 000.00
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY					R 112 000.00

SCHOOL SUMMARY		
SECTION NO	KWAPHUZA SPS: 2F2M1D; 6B; 6G	TOTAL
	SCHOOL SUMMARY	
1	2 Female, 2 Male, 1 Disabled staff toilet block	
2	4 Girls toilet block	
3	External Works (Provisional)	
4	Provisional Sums	112 000.00
TOTAL CARRIED FORWARD TO FINAL SUMMARY		

2 FEMALE, 2 MALE AND 1 DISABLED
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
101	Pit hole	m ³	4.63		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Soft Rock	m ³	6.18		
103	Hard Rock	m ³	12.35		
	<u>Coarse river sand filling supplied by the contractor</u>				
104	Under floors etc 150mm thick	m ³	6.14		
	<u>Hardcore filling</u>				
105	Class G7, under floors, steps, pavings etc. 50mm thick	m ³	2.05		
	<u>Prescribed density tests on filling</u>				
106	Modified AASHTO Density test	No	3.00		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
107	To bottoms and sides of trenches etc	m ²	63.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) Formwork: Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
108	Pit floor slab 50mm thick (where ordered)	m ³	1.16		
109	Pit cover slab 85mm thick	m ³	3.00		
	<u>TEST BLOCKS</u>				
110	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	4.00		
	<u>ROUGH FORMWORK</u> <u>Rough formwork to soffits</u>				
111	To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	35.29		
TOTAL CARRIED FORWARD					

2 FEMALE, 2 MALE AND 1 DISABLED
CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
112	6mm Joints not exceeding 100mm high	m	7.00		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
113	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	35.29		
	<u>PRECAST CONCRETE</u>				
114	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	6.00		
115	905 x 300 x 100mm precast concrete (2kg reinforcing each) inspection cover slabs for tank (Type B), with one pair of steel handles suitable for grip	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
MASONRY**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
116	Half brick walls	m ²	2.34		
	<u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
117	One brick walls	m ²	23.00		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
118	Piers 230 x 230 x 2100mm high tied into one brick wall	No	2.00		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Fabcon prestressed fabricated lintels</u>				
119	110 x 75mm Lintels in lengths not exceeding 3m length	m	8.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
120	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
IRONMONGERY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 5</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded <u>HINGES, BOLTS, ETC.</u> <u>Solid</u>				
121	150mm Brass barrel bolt.	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**2 FEMALE, 2 MALE AND 1 DISABLED
PLASTERING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 6</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
122	On external pit walls above ground	m ²	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 7</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAK AWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
123	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
124	110 x 50 mm uPVC reducer	No	1.00		
125	Quick4 High Capacity Kaytech chamber	No	2.00		
126	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
127	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
128	Backfilling to trench	m ³	3.00		
129	Backfilling around chamber and end cap units including berming over units as directed	m ³	3.00		
130	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

2 FEMALE, 2 MALE AND 1 DISABLED
SECTION SUMMARY

Bill No.	<u>SECTION NO. 1</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 IRONMONGERY	
	6 PLASTERING	
	7 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

**4 BOYS
EARTHWORKS**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC. (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in pickable material not exceeding 2m deep</u>				
101	Pit hole	m ³	29.00		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Soft Rock	m ³	4.22		
103	Hard Rock	m ³	8.44		
	<u>Coarse river sand filling supplied by the contractor</u>				
104	Under floors etc 150mm thick	m ³	3.80		
	<u>Hardcore filling</u>				
105	Class G7, under floors, steps, pavings etc. 50mm thick	m ³	1.27		
	<u>Prescribed density tests on filling</u>				
106	Modified AASHTO Density test	No	4.00		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
107	To bottoms and sides of trenches etc	m ²	36.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
108	Pit floor slab 50mm thick (where ordered)	m ³	0.71		
109	Pit cover slab 85mm thick	m ³	3.00		
110	<u>TEST BLOCKS</u> Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	3.00		
TOTAL CARRIED FORWARD					

4 BOYS

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to soffits</u>				
111	To soffit of pit cover slab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	40.00		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
112	6mm Joints not exceeding 100mm high	m	3.00		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
113	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	35.29		
	<u>PRECAST CONCRETE</u>				
114	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**4 BOYS
MASONRY**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks in class II mortar in pit</u>				
115	Half brick walls	m ²	1.54		
	<u>Brickwork of NFX bricks in class II mortar in walls below ground level</u>				
116	One brick walls	m ²	20.60		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
117	Piers 230 x 230 x 2100mm high tied into one brick wall	No	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**4 BOYS
WATERPROOFING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs JOINT SEALANTS ETC <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
118	6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	5.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS IRONMONGERY					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded <u>HINGES, BOLTS, ETC.</u> <u>Solid</u>				
119	150mm Brass barrel bolt.	No	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
METALWORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 6</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>GALVANISED PRESSED STEEL DOOR FRAMES (No painting required)</u> <u>1.2mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>				
120	Frame for door 813 x 2032mm high	No	1.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

**4 BOYS
PLASTERING**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 7</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SCREEDS</u> <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
121	On external pit walls above ground	m ²	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 2</u> <u>BILL NO. 8</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>SOAKAWAY SYSTEM</u> <u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
122	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
123	110 x 50 mm uPVC reducer	No	1.00		
124	Quick4 High Capacity Kaytech chamber	No	2.00		
125	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
126	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
127	Backfilling to trench	m ³	3.00		
128	Backfilling around chamber and end cap units including berming over units as directed	m ³	4.00		
129	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

4 BOYS
SECTION SUMMARY

Bill No.	<u>SECTION NO. 2</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 IRONMONGERY	
	6 METALWORK	
	7 PLASTERING	
	8 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

6 Girls
EARTHWORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS, ETC (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Traders - WB20 and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>Excavation in pickable material exceeding 2m not exceeding 4m deep</u>				
101	Pit hole	m ³	5.58		
	<u>Extra over excavation in pickable material for excavation in strata of a more difficult character</u>				
102	Soft Rock	m ³	7.41		
103	Hard Rock	m ³	14.81		
	<u>Coarse river sand filling supplied by the contractor</u>				
104	Under floors etc 150mm thick	m ³	5.71		
	<u>Hardcore filling</u>				
105	Class G7, under floors, steps, pavings etc. 50mm thick	m ³	1.90		
	<u>Prescribed density tests on filling</u>				
106	Modified AASHTO Density test	No	6.00		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
107	To bottoms and sides of trenches etc	m ²	57.10		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to all Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Architect. (Test cubes are measured separately) <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only {except where described as left in or permanent}, for fitting together in the required forms, wedging plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
108	Pit floor slab 50mm thick (where ordered)	m ³	1.39		
109	Pit cover slab 85mm thick	m ³	3.00		
	<u>TEST BLOCKS</u> Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Principal Agent	No	3.00		
TOTAL CARRIED FORWARD					

6 Girls

CONCRETE, FORMWORK AND REINFORCEMENT

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to soffits</u>				
111	To soffit of pit coverslab propped up exceeding 1,5m and not exceeding 3,5m high	m ²	35.29		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with bitumen impregnated softboard between horizontal concrete surfaces</u>				
112	6mm Joints not exceeding 100mm high	m	4.90		
	<u>REINFORCEMENT</u>				
113	Type 617 fabric reinforcement in concrete cover slab, etc	m ²	35.29		
	<u>PRECAST CONCRETE</u>				
114	990 x 300 x 100mm precast concrete including (2kg reinforcing each) inspection cover slabs for tank (Type A), with one pair of steel handles suitable for grip	No	12.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					-

6 Girls
MASONRY

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Facebrick</u> Bricks shall be ordered timeously to obtain uniformity <u>Pointing</u> Description of recessed pointing to fair face brickwork <u>SAMPLES (Provided to Architect / Engineer)</u> Samples of all masonry building units, except those for walls described as "load bearings", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearings" shall consist of 30 units from every 10000 units delivered on site <u>SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar</u>				
115	Piers 230 x 230 x 2100mm high tied into one brick wall	No	4.00		
	<u>Fabcon prestressed fabricated lintels</u>				
116	110 x 75mm Lintels in lengths not exceeding 3m length	m	7.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls

WATERPROOFING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
117	<u>SECTION NO. 3</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee to SABS 021 as applicable. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>JOINT SEALANTS ETC</u> <u>Thiflex 600 polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> 6 x 6mm In expansion joints in floors including raking out expansion joint filler as necessary	m	4.90		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					6 Girls IRONMONGERY
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 5</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodized silver AB - Anodized bronze AG - Anodized gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded <u>HINGES, BOLTS, ETC.</u> <u>Solid</u>				
118	150mm Brass barrel bolt.	No	6.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
PLASTERING

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u> <u>BILL NO. 6</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>				
119	On external pit walls above ground	m ²	4.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
EXTERNAL WORKS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 7</u>				
	<u>EXTERNAL WORKS (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder				
	<u>SOAK AWAY SYSTEM</u>				
	<u>Supply and install Kaytech, or similar approved, infiltrator system as below and as detailed:</u>				
120	110mm Normal duty uPVC sewer pipe to SABS 791	m	12.00		
121	110 x 50 mm uPVC reducer	No	1.00		
122	Quick4 High Capacity Kaytech chamber	No	4.00		
123	Quick4 High Capacity Kaytech Multiport End Cap	No	2.00		
124	Extra-over items 130 and 131 for placing Chambers on M190 masonry units, where ordered, including 19mm stone splash pad and Bidim A2 geotextile wrapping of splash pad and masonry units.	Sum	1.00		
	<u>Earth filling obtained from excavations compacted to 95% Mod AASHTO density</u>				
125	Backfilling to trench	m ³	3.00		
126	Backfilling around chamber and end cap units including berming over units as directed	m ³	3.00		
127	Surplus material from excavations on site to a dumping site to be located by contractor	m ³	2.00		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

6 Girls
SECTION SUMMARY

Bill No.	<u>SECTION NO. 3</u>	
	<u>SECTION SUMMARY</u>	
	1 EARTHWORKS	
	2 CONCRETE FORMWORK AND REINFORCEMENT	
	3 MASONRY	
	4 WATERPROOFING	
	5 IRONMONGERY	
	6 PLASTERING	
	7 EXTERNAL WORKS	
TOTAL CARRIED FORWARD TO SUMMARY		

					EXTERNAL WORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL No 1</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>SUPPLEMENTARY PREAMBLES</u> For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder <u>PEDESTRIAN WALKWAY & VEHICULAR ACCESS FOR PIT DESLUDGING</u> <u>SITE CLEARANCE ETC</u>				
101	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees etc. not exceeding 300mm girth	m ²	8		
102	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	8		
	<u>EXCAVATION, FILLING, ETC</u>				
103	Reduce levels under paving, etc.	m ³	1.2		
104	Cut to fill including breaking down oversize material where necessary and compact to 95% Mod AASHTO density for vehicular access for pit desludging (Prov)	m ³	30		
	<u>Extra over all excavations for carting, loading and dumping surplus excavated material and vegetation{no allowance made for increase in bulk}:</u>				
105	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1		
	<u>Hardcore filling</u>				
106	Class G7, under floors, steps, pavings etc.	m ³	1.2		
	<u>Compaction of surfaces</u>				
107	Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material where necessary and compacting to 95% Mod AASHTO density	m ²	8		
	<u>SOIL POISONING</u> <u>Soil insecticide</u>				
108	Weed killer under paving etc	m ²	8		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

					EXTERNAL WORKS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 4</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL No 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u> <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>				
109	Walkway 8m x 100mm x 900mm wide	m ³	1		
	<u>TEST BLOCKS</u> Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
	<u>CONCRETE SUNDRIES</u> <u>Finishing to top surfaces of concrete smooth with a wood float finish</u>				
111	Surface beds, slabs, aprons, verandahs etc to falls	m ²	7.2		
112	16mm Quarter round corner tool finish to edges of all exposed concrete surfaces	m	16		
	<u>SMOOTH FORMWORK</u> <u>Smooth formwork to sides</u>				
113	Edge not exceeding 300mm high	m	16		
	<u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>				
114	6mm Joints not exceeding 300mm high	m	2.4		
	<u>REINFORCEMENT</u> <u>Fabric reinforcement</u>				
115	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	7.2		
TOTAL CARRIED FORWARD TO SECTION SUMMARY					

				SECTION SUMMARY	
	<u>SECTION No 4</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SECTION SUMMARY</u>				
	1 Earthworks {Provisional} 2 Concrete, Formwork and Reinforcement (Provisional)				
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY					

					PROVISIONAL SUMS
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION No 5</u> <u>PROVISIONAL SUMS</u> <u>BILL No 1</u> <u>SUMS STATED PROVISIONALLY BY ENGINEER</u> The following work will be undertaken on instruction by the Engineer and will be measured and priced at contract rates				
1	Allow the sum of R15 000.00 (Fifteen Thousand Rand) per school for the refurbishment of existing serviceable toilet buildings at the school, as directed by the Engineer	Sum	1	R 15 000.00	R 15 000.00
2	Allow the sum of R25 000.00 (Twenty five Thousand Rand) per school for the refurbishment of existing rainwater harvesting infrastructure on existing school buildings, as directed by the Engineer.	Sum	1	R 25 000.00	R 25 000.00
3	Allow the sum of R 10 000 (at R 2000 per toilet) to desludge, dismantle, remove from site to Client's stores, seal, backfill & compact around pit to five Enviro Loos, or other temporary toilets, only as directed by the Engineer (Prov)	Sum	1	R 10 000.00	R 10 000.00
4	Allow the sum of R 50 000 in the event of theft, vandalism and breakage since the previous contract was abandoned.	Sum	1	R 50 000.00	R 50 000.00
5	Contractor's overheads, charges and profit on items 1 - 3 above	%	1	12	R 12 000.00
TOTAL CARRIED FORWARD TO SCHOOL SUMMARY					R 112 000.00

SECTION NO		LUCAS MEMORIAL PS: 2F2M1D; 4B; 6G		SCHOOL SUMMARY	
SECTION NO		LUCAS MEMORIAL PS: 2F2M1D; 4B; 6G		TOTAL	
		<u>SCHOOL SUMMARY</u>			
1	2 Female, 2 Male, 1 Disabled staff toilet block				
2	4 Boys toilet block				
3	6 Girls toilet block				
4	External Works (Provisional)				
5	Provisional Sums			112 000.00	
TOTAL CARRIED FORWARD TO FINAL SUMMARY					

		FINAL SUMMARY
NO	CLUSTER B	TOTAL
	<u>FINAL SUMMARY</u>	
1	PRELIMINARY AND GENERAL	
2	GOBUME H SCHOOL	
3	HYMAN P SCHOOL	
4	MANDLENDODA SP SCHOOL	
5	KWAPHUZA SP SCHOOL	
6	LUCAS MEMORIAL P SCHOOL	
SUB-TOTAL		
ADD: 15% VAT		
TOTAL CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE (FORM T2.21)		



KWAZULU-NATAL PROVINCE
PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN
(070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) &
KWAPHUZA (070343)**

PART C3. SCOPE OF WORKS

C3.1 SCOPE OF WORKS GCC FOR CONSTRUCTION WORKS (Edition 2 of 2010)			
Scope of Works complied in accordance with SANS 10403 where reference is made to this part of SANS 1921-1:2004			
Project title:	SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION - CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN (070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) & KWAPHUZA (070343)		
Tender no:	ZNTM01078W	Project Code:	070341 to 070345
1	<u>SECTION 1</u> <u>EXTENT OF THE WORKS</u>		
1.1	HYMAN PRIMARY SCHOOL		
1.1.1	EMPLOYERS OBJECTIVES Completion of construction of brickwork VIP toilets with lined brickwork pits for boys, girls, female &		
1.1.2	OVERVIEW OF THE WORKS Completion contract for the construction of brickwork VIP toilets - (2 FEMALE 2 MALE 1 DISABLED / 4 BOYS / 6 GIRLS).		
1.1.3	EXTENT OF THE WORKS 2F2M1D COMPLETION OF MANSONRY WORK COMPLETION OF PLUMBING INSTALLATION 4B COMPLETION OF MANSONRY WORK INSTALLATION OF SOAKAWAY SYSTEM 6G COMPLETION OF MANSONRY WORK		
1.1.4	LOCATION OF THE WORKS The site is located at the following co-ordinates: 30°25'15.78"S; 30°32'28.31"E		
1.1.5	TEMPORARY WORKS All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)		

1.2	LUCAS MEMORIAL PRIMARY SCHOOL
1.2.1	EMPLOYERS OBJECTIVES Completion of construction of brickwork VIP toilets with lined brickwork pits for boys, girls, female &
1.2.2	OVERVIEW OF THE WORKS Completion contract for the construction of brickwork VIP toilets - (2 FEMALE 2 MALE 1 DISABLED / 4 BOYS / 6 GIRLS).
1.2.3	EXTENT OF THE WORKS 2F2M1D COMPLETION OF MINOR INTERNAL MASONRY WORK INSTALLATION OF SOAKAWAY SYSTEM 4B COMPLETION OF MINOR INTERNAL MASONRY WORK INSTALLATION OF SOAKAWAY SYSTEM 6G COMPLETION OF MINOR INTERNAL MASONRY WORK INSTALLATION OF SOAKAWAY SYSTEM
1.2.4	LOCATION OF THE WORKS The site is located at the following co-ordinates: 30°30'27.99"S; 30°23'01.28"E
1.2.5	TEMPORARY WORKS All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)

1.3	MANDLENDODA SENIOR PRIMARY SCHOOL
1.3.1	EMPLOYERS OBJECTIVES Completion of construction of brickwork VIP toilets with lined brickwork pits for boys, girls, female &
1.3.2	OVERVIEW OF THE WORKS Completion contract for the construction of brickwork VIP toilets - (2 FEMALE 2 MALE 1 DISABLED / 4 BOYS).
1.3.3	EXTENT OF THE WORKS 2F2M1D FILLING OF TRENCHES COMPLETION OF MANSONRY WORK COMPLETION OF INTERNAL PLUMBING INSTALLATION OF RAINWATER GOODS INSTALLATION OF SOAKAWAY SYSTEM 4B EXCAVATION AND FILLING OF TRENCHES COMPLETION OF MANSONRY WORK COMPLETION OF INTERNAL PLUMBING INSTALLATION OF RAINWATER GOODS INSTALLATION OF SOAKAWAY SYSTEM
1.3.4	LOCATION OF THE WORKS The site is located at the following co-ordinates: 30°30'24.03"S; 30°35'56.65"E
1.3.5	TEMPORARY WORKS All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)

1.4	GOBUMA HIGH SCHOOL
1.4.1	EMPLOYERS OBJECTIVES Completion of construction of brickwork VIP toilets with lined brickwork pits for boys, girls, female &
1.4.2	OVERVIEW OF THE WORKS Completion contract for the construction of brickwork VIP toilets - (3 FEMALE 3 MALE 1 DISABLED / 8 BOYS / 10 GIRLS)
1.4.3	EXTENT OF THE WORKS 3F3M1D EXCAVATION AND FILLING OF TRENCHES SPREADING AND LEVELLING OF TOPSOIL BACKFILLING UNDER FLOORS CONSTRUCTION OF STRIP FOOTINGS, APRONS AND SURFACE BEDS CONSTRUCTION OF BRICKWALLS WATERPROOFING TO WALLS INSTALLATION OF ROOF INSTALLATION OF PLUMBING, SANWARE AND RELATED ITEMS INSTALLATION OF RAINWATER GOODS INSTALLATION OF SOAKAWAY SYSTEM INTERNAL FINSHES (EG. PLASTERING, PAINTING) 8M EXCAVATION AND FILLING OF TRENCHES BACKFILLING UNDER FLOORS CONSTRUCTION OF STRIP FOOTINGS, APRONS AND SURFACE BEDS CONSTRUCTION OF BRICKWALLS INSTALLATION OF ROOF INSTALLATION OF RAINWATER GOODS INSTALLATION OF SOAKAWAY SYSTEM INTERNAL FINSHES (EG. PLASTERING, PAINTING) 10G EXCAVATION AND FILLING OF TRENCHES SPREADING AND LEVELLING OF TOPSOIL BACKFILLING UNDER FLOORS CONSTRUCTION OF STRIP FOOTINGS, APRONS AND SURFACE BEDS CONSTRUCTION OF BRICKWALLS WATERPROOFING TO WALLS INSTALLATION OF ROOF INSTALLATION OF PLUMBING, SANWARE AND RELATED ITEMS INSTALLATION OF RAINWATER GOODS INSTALLATION OF SOAKAWAY SYSTEM INTERNAL FINSHES (EG. PLASTERING, PAINTING)
1.4.4	LOCATION OF THE WORKS The site is located at the following co-ordinates: 30°22'13.43"S; 30°26'36.61"E
1.4.5	TEMPORARY WORKS

	All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)
1.5	KWAPHUZA SENIOR PRIMARY SCHOOL
1.5.1	EMPLOYERS OBJECTIVES Completion of construction of brickwork VIP toilets with lined brickwork pits for boys, girls, female &
1.5.2	OVERVIEW OF THE WORKS Completion contract for the construction of brickwork VIP toilets - (2 FEMALE 2 MALE 1 DISABLED / 4 GIRLS).
1.5.3	EXTENT OF THE WORKS 2F2M1D COMPLETION OF MINOR INTERNAL MASONRY WORK 4G COMPLETION OF MINOR INTERNAL MASONRY WORK
1.5.4	LOCATION OF THE WORKS The site is located at the following co-ordinates: 30°30'21.57"S; 30°32'35.38"E
1.5.5	TEMPORARY WORKS All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)

2 ENGINEERING

2.1 EMPLOYER'S DESIGN

Drawings by KZN DPW have been provided for toilet blocks of various sizes from 4B-8B Boys toilets, 4G-10G Girls toilets, Staff & disabled persons.

2.2 DESIGN BRIEF

Not applicable

2.3 DRAWINGS

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

2.4 DESIGN PROCEDURES

Not applicable

3 PROCUREMENT

3.1 PREFERENTIAL PROCUREMENT PROCEDURES

This tender will be subject to the implementation of the Preferential Procurement Regulations, 2022, pertaining to the Preferential Procurement Policy Framework Act, Act Number 5 of 2000 and the relevant Supply Chain Management Legislation and the KwaZulu-Natal Supply Chain Management Policy Framework published by the KwaZulu-Natal Provincial Treasury. Tenderders are referred to www.kzntreasury.gov.za for access to the relevant documents.

Tenderders are advised to familiarize themselves with the contents of the KwaZulu-Natal Supply Chain Management Policy Framework regarding Preference Point Systems, evaluation of tenders appeals and other matters.

3.2 RESOURCE STANDARD PERTAINING TO TARGETED PROCUREMENT

NOTE : This project will be adjudicated as not exceeding R 50,000 000,00

3.3 SCOPE OF MANDATORY SUBCONTRACT WORK

Not applicable

3.4 PREFERRED SUBCONTRACTORS/SUPPLIERS

Not applicable

3.5 SUBCONTRACTING PROCEDURES

Not applicable

4

CONSTRUCTION

4.1 APPLICABLE SANS 2001 STANDARDS FOR CONSTRUCTION WORKS

The Contractor is referred to the "Model Preambles to Trades - 2008", any "Supplementary Preambles", the Electrical Specifications and Mechanical Specification for full descriptions of materials and methods referred to in these Bills of Quantities/Lump Sum documents, insofar as they apply. The Contractor is advised to study the "Standard Preambles to all Trades", any "Supplementary Preambles", the Electrical Specifications and Mechanical Specification, before pricing Bills of Quantities/Lump Sum documents.

Where the description in the Bills of Quantities/Lump Sum documents differ from those in the Standard Electrical Specifications, the descriptions in the Bills of Quantities/Lump Sum documents are to apply. No claim whatsoever will be allowed in respect of errors in pricing due to brevity of description of items in the Bills of Quantities/Lump Sum documents which are fully described when read in conjunction with the relevant Preambles and/or Specifications. Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9000 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

Wherever the words "shall be deemed to be included in the description", "shall be stated" or other words having the same effect, appear in the Standard System, it shall be deemed that all descriptions in these Bills of Quantities/Lump Sum documents incorporated such inclusions and statements whether specifically stated or not.

The Contractor is hereby informed that where SABS/SANS Specifications are referred to in these Bills of Quantities/Lump Sums documents and Specifications thereto, then ONLY the Specification of Work Clauses will apply. The method of measurement and payment clauses will NOT apply to this Contract.

The Contractor is hereby informed that risk of collapse and keeping excavations free from water (excluding subterranean water) generally are deemed to be included in the descriptions unless accommodated in the system of measurement. Please refer to the Geotechnical Investigation report when included at the end of these tender documents.

Whenever reference is made to "Sub-Contractor", "Nominated Sub-Contractor" or the like in the specifications included or referred to in these Bills of Quantities/Lump Sums documents, it shall be deemed to mean "Contractor" as defined.

4.2 APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS

See above 4.1

4.3 PARTICULAR / GENERIC SPECIFICATIONS

The Contractor is referred to the following documents whether attached to this document or not:

<u>SPECIFICATION</u>	<u>PAGES</u>
Specification for HIV/AIDS Awareness (CIDB)	HIV1 TO HIV3
Specific Construction, Safety, Health and Environmental Plan	
Standard Preambles for all Trades (Rev 3) - DOH 2009	1 to 95
General Electrical Specification	E/1 to E/20
Lightning Protection Installation	LP/1 to LP/6

4.4 CERTIFICATION BY RECOGNIZED BODIES

Only contractors registered with the Electrical Contracting Board of South Africa in accordance with the Regulations of the Occupational Health and Safety Act will be accepted and permitted to do work under this contract.

4.5 AGRÉMENT CERTIFICATES

Not applicable

4.6 PLANT AND MATERIAL PROVIDED BY THE EMPLOYER

Not applicable

4.7 SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER

Not applicable

4.8 OTHER SERVICES AND FACILITIES

The Contractor shall provide any artificial lighting which may be necessary or required for the proper execution of the works, and provide electric power and water required by all Sub-Contractors, Nominated Sub-Contractors and Sub-Contractors appointed directly by the Administration.

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.

The Contractor is advised that the permanent light fittings and water points of any kind installed in the Works are not to be used to provide temporary lighting and supplement water requirements for construction purposes.

5 MANAGEMENT

5.1 APPLICABLE SANS 1921 STANDARDS

Tenderders are referred to

SECTION 2 : SPECIFICATION DATA ASSOCIATED WITH SANS 1921-1:2004 IN THIS DOCUMENT

5.2 RECORDING OF WEATHER

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

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

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

	December	w/days	3	3	
5.3	MANAGEMENT MEETINGS				
	In order to facilitate the smooth functioning of the Works and to ensure the closest co-operation between all the parties concerned, the Employer will call for regular meetings to be held on the site, at which a senior member of the Contracting firm and the General Foreman of the Works will always be required to be present. In addition to the above, other persons will be required to attend these meetings as and when their presence is necessary, e.g., Consultants in all disciplines, representatives of the various Sub-Contractors, etc. Proper minutes of these meetings will be kept by the Employer\Principal Agent and copies will be circulated to all persons attending the meetings and to others who need to be kept informed.				
5.4	FORMS FOR CONTRACT ADMINISTRATION				
	The Employer shall provide all necessary forms.				
5.5	ELECTRONIC PAYMENTS				
	The Contractor shall provide all required information to the Employer to facilitate electronic payments upon request.				
5.6	DAILY RECORDS				
	The Contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site. At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all Sub-Contractors on the works each day. At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.				
5.7	BONDS AND GUARANTEES				
	The Contractor shall within 10 calendar days after receiving notice from the Engineer and prior to receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the Contract Data.				
5.8	PAYMENT CERTIFICATES				
	Requirements will be in accordance with the Employers prescriptions.				

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

	Prefabricated roof trusses design must be submitted for approval 30 days prior to erections.
4.2.1	The responsibility strategy assigned to the Contractor for the works is:
	Strategy A
4.2.2	The structural engineer is:
	Eyethu Engineers (Pty) Ltd
4.2.3	Drawings & other info are to be submitted in accordance with the contractors programme
	N/A
4.3	The planning, programme and method statement are to comply with the following:
	N/A
4.12.1	Samples of materials
	The work is to be executed with materials of the best specified and in the most substantial and workmanlike manner under the inspection of the Employer and to his satisfaction. The Contractor shall furnish, without delay, such samples as called for or may be called for by the Employer, who may reject all materials or workmanship not corresponding with the approved sample. The samples of materials, workmanship and finishes that the Contractor is to provide and deliver to the employer are: - Tile sample. - Brick sample. - Light fitting sample. - Screed panel 2m x 2m impact test. - Tested trial mix to be approved by the Engineer.
4.12.2	Fabrication drawings that the contractor is to provide to the employer are:
	None
4.12.3	Office accommodation, equipment, accommodation for site meetings and other facilities for use by the employer and his agents are:
	OFFICE FOR FOREMAN
	Provide, erect, maintain and remove at completion a suitable temporary office for the Contractor or his Foreman, perfectly secured, lighted and ventilated and having a desk with drawers.
	TELEPHONE
	The Contractor shall provide a telephone on the site for the use of the Contractor and all Sub-Contractors for the duration of the Contract, and must make the necessary application for connection, give all notices and pay all fees, rentals and charges for the service and also for all calls.
	OFFICE FOR INSPECTOR OF WORKS

	Provide, erect, maintain and remove at completion a well constructed temporary office for the Inspector of Works not less than 4 x 3 m on plan and 3 m high to eaves to the approval of the Employer. The office shall be constructed of wood framing covered externally with corrugated iron or corrugated asbestos and with a lean-to roof covered with the same material as the external wall covering. The office shall be lined internally with soft board or other approved material and a ceiling shall be provided of the same material as the internal lining. A suspended wood floor shall be provided and is to finish not less than 300 mm above the ground level. A lockable door and a window, which provides adequate light and ventilation, shall be fitted. An office constructed of 115 mm thick brick-work and provided with a screeded concrete floor and roofed and ceiled as above described may be accepted as an alternative but prior permission of the Employer will be necessary before construction of such an office is commenced and his requirements shall be stated and fulfilled by the Contractor. The office shall be fitted in an approved manner with a sloping topped desk of height and length suitable for the laying out and studying of drawings, a desk or table with not less than two lock-up drawers, shelves, seating and wash-stand, and the Contractor shall provide all necessary attendance.
	TELEPHONE IN OFFICE FOR INSPECTOR OF WORKS The Contractor shall arrange for the installation of a lockable telephone in the Office for the Inspector of Works for the duration of the Contract. The Contractor will be required to make the necessary application for connection and give all notices on behalf of the Employer. The Employer will, however, be responsible for the direct payment of all fees, rentals and other charges by Telkom for the service for the Inspector of Works and for all calls made from this telephone.
	SHED Provide, erect, maintain and remove at completion, ample temporary sheds for the proper storage of materials and for the use of the workmen, and remove when no longer required.
4.14.6	The requirement for provision and erection of signboards are: Supply, erect, maintain and remove at completion a painted notice board, size overall 2800 x 2345 mm high sign written to detail as Drawing No. T9506 which drawing is available from offices of the Department of Public Works. Only the official notice board is to be displayed on the site and no Sub-Contractor's boards will be permitted. The Contractor, at his own cost, may provide a board on which all sub-contract firms' names may be sign written. The notice board is to be to the approval of the Employer and is to be maintained in first class condition and placed where directed at the entrance to the site and remain there for the duration of the Contract.
4.17.1 4.17.3	Requirement for the termination, diversion or maintenance of existing services: Should the Contractor come in contact with any underground cables or pipes during excavations, immediate notification must be made to the Employer and all work in the vicinity of such cables, pipes, etc., shall cease until authority to proceed has been obtained from the Employer. Should the Contractor damage underground cables or pipes resulting in a disruption of services to an existing institution such damage shall be repaired immediately. Services which are known to exist on the site: Investigate and provide detail drawings.

4.17.4	Requirement for detection apparatus
	None
4.18	ADDITIONAL HEALTH AND SAFETY REQUIREMENTS ARE: By the submission of a tender, any Tenderder will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act. As a mandatory the successful Tenderder will be deemed to be the “principal contractor” and an employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed and machinery and plant used in accordance with the Act. Should the Contractor, for whatever reason be unable to perform as required by the Act, the Contractor undertakes to inform the Employer accordingly. Tenderders are advised that it is a Condition of this Tender that a 'Construction Phase Safety, Health and Environmental Plan' specifically relates to the project for which tenders are being submitted and Tenderders are therefore advised to study the 'Construction Safety, Health and Environmental Specification' which is issued as part of this tender document, the Model Preambles to Trades - 2008, any project Specification included in this tender document and any and all drawings which are referred to and issued as part of this tender document before preparing their own project specific 'Construction Phase Safety, Health and Environmental Plan' . Tenderders are also advised that such a plan which is submitted with a tender but is incomplete or considered inadequate by the Employer or his Representative will invalidate the tender. The Contractor will be deemed to have satisfied himself with his obligations in terms of the Act and to have allowed for all costs arising from compliance with the Act as no claim for extra costs arising from compliance with, and obligations in terms of the Act will be entertained.
4.22	WORK BY NOMINATED AND SELECTED SUBCONTRACTORS COMPRISE:
	[Provide list of applicable contractors]

C3.2 - SPECIFICATION FOR HIV/AIDS AWARENESS

1 Scope

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

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

2 Normative references:

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

SANS 4074 ISO 4074, *Condom Rubbers*

3 Definitions and Abbreviations

3.1 Definitions

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

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

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

3.2 Abbreviations

STI: Sexually transmitted infection

HIV: Human Immunodeficiency Virus

AIDS: Acquired Immune Deficiency Syndrome

4 Objectives

The objectives are to:

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

5 Requirements

5.1 General requirement

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

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

- d) provide information concerning counselling, support and care of those that are infected services;
and
- e) comply with the requirements of 5.2.

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

5.2 HIV awareness programme

5.2.1 The contractor shall:

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

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

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

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

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

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

5.3 Reporting

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

5.3.2 The employer's representative shall certify the report and schedule described in 5.3.1 whenever a claim for payment is issued to the employer.

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

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

C3.3 - HIV/STI COMPLIANCE REPORT

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

Project Code:

070341 to 070345

Payment Claim number:

Period covered by payment claim:

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

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

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

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

5. HIV awareness programme (briefly describe action).

6. Schedule of construction workers exposed to the HIV awareness programme.

Name	<u>Identity number</u>	Trade / <u>occupation</u>	Name of <u>employer</u>

I hereby declare the above to be a true reflection of actions taken to ensure compliance with the specification.

For Contractor:

Name: _____

Signature: _____

Date: _____

Employer's representative:

Name: _____

Signature: _____

Date: _____



KWAZULU-NATAL PROVINCE

PUBLIC WORKS
REPUBLIC OF SOUTH AFRICA

**SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION -
CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN
(070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) &
KWAPHUZA (070343)**

PART C4. SITE INFORMATION

C4.1 SITE INFORMATION GCC FOR CONSTRUCTION WORKS (2 Edition of 2010)			
Project title:	SCHOOLS' SANITATION PROGRAMME, SOUTHERN REGION - CLUSTER B: COMPLETION OF CONSTRUCTION OF TOILETS AT FIVE SCHOOLS: HYMAN (070341), LUCAS MEMORIAL (070345), MANDLENDODA (070342), GOBUME (070344) & KWAPHUZA (070343)		
Tender No.	ZNTM01078W	Project Code:	070341 to 070345
C4.1 Site Information			
C4.1.1	HYMAN PRIMARY SCHOOL		
C4.1.1.1	GENERAL		
(a)	The site is located at the following co-ordinates 30°25'15.78"S; 30°32'28.31"E		
(b)	The facility is located on flat to slightly hilly terrain at and approximate elevation of 261m above sea level		
C4.1.1.2	GEOTECHNICAL INVESTIGATION REPORT		
(a)	Not Applicable		

C4.1.2 LUCAS MEMORIAL PRIMARY SCHOOL

C4.1.2.1 GENERAL

- (a) The site is located at the following co-ordinates
30°30'27.99"S; 30°23'01.28"E
- (b) The facility is located on flat to slightly hilly terrain at and approximate elevation of 545m above sea level

C4.1.2.2 GEOTECHNICAL INVESTIGATION REPORT

- (a) Not Applicable

C4.1.3 MANDLENDODA SENIOR PRIMARY SCHOOL

C4.1.3.1 GENERAL

- (a) The site is located at the following co-ordinates
30°30'24.03"S; 30°35'56.65"E
- (b) The facility is located on flat to slightly hilly terrain at and approximate elevation of 104m above sea level

C4.1.3.2 GEOTECHNICAL INVESTIGATION REPORT

- (a) Not Applicable

C4.1.4 GOBUMA HIGH SCHOOL

C4.1.4.1 GENERAL

- (a) The site is located at the following co-ordinates
30°22'13.43"S; 30°26'36.61"E
- (b) The facility is located on flat to slightly hilly terrain at and approximate elevation of 522m above sea level

C4.1.4.2 GEOTECHNICAL INVESTIGATION REPORT

- (a) Not Applicable

C4.1.5	KWAPHUZA SENIOR PRIMARY SCHOOL
C4.1.5.1	GENERAL
(a)	The site is located at the following co-ordinates 30°30'21.57"S; 30°32'35.38"E
(b)	The facility is located on flat to slightly hilly terrain at and approximate elevation of 261m above sea level
C4.1.5.2	GEOTECHNICAL INVESTIGATION REPORT
(a)	Not Applicable