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Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence

PREAMBLES FOR TRADES

The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles

GENERAL

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

1 Definitions and interpretation (clause 1)

F:..... V:..... T:.....

Item

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Objective and Preparation (A2 to A14)

2 Offer acceptance and performance (clause 2)

F:..... V:..... T:.....

Item

3 Documents (clause 3)

F:..... V:..... T:.....

Item

4 Design responsibility (clause 4)

F:..... V:..... T:.....

Item

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5 Employer's agents (clause 5)

F:..... V:..... T:.....

The principal agent shall:

- monitor and control progress and scheduling
- monitor all contract conditions, and
- coordinate the efforts of the employer's agents, the contractor and subcontractors

The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part

The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process

Item

6 Site representative (clause 6)

F:..... V:..... T:.....

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7 Compliance with regulations (clause 7)

F:..... V:..... T:.....

Sub-clause 7.3 added:

The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work.

Sub-clause 7.3.1 is added:

Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement."

Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.

The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.

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8	Works risk (clause 8) F:..... V:..... T:.....			
		Item		
9	Indemnities (clause 9) F:..... V:..... T:.....			
		Item		
10	Works insurances (clause 10) F:..... V:..... T:.....			
		Item		
11	Liability insurances (clause 11) F:..... V:..... T:.....			
		Item		
12	Effecting insurance (clause 12) F:..... V:..... T:.....			
		Item		
13	NO CLAUSE	N/A		
14	Security (clause 14) The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) F:..... V:..... T:.....			
		Item		
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Execution (A15-A23)

15 Preparation for and execution of the works (clause 15)

F:..... V:..... T:.....

Item

16 Access to the works (clause 16)

F:..... V:..... T:.....

Item

17 Contract instructions (clause 17)

F:..... V:..... T:.....

Item

18 Setting out of the works (clause 18)

F:..... V:..... T:.....

The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments

Item

19 Assignment (clause 19)

F:..... V:..... T:.....

The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer

Item

20 Nominated subcontractors (clause 20)

F:..... V:..... T:.....

Item

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27	Latent defects liability period (clause 27) F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29) F:..... V:..... T:..... The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
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32	<p>Adjustment to the contract value (clause 32)</p> <p>F:..... V:..... T:.....</p> <p>Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing</p>				
		Item			
33	<p>Recovery of expense and loss (clause 33)</p> <p>F:..... V:..... T:.....</p>				
		Item			
34	<p>Final account and final payment (clause 34)</p> <p>F:..... V:..... T:.....</p> <p>The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p>				
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35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item		
	<u>Cancellation (A36-A39)</u>			
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item		
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....	Item		
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....	Item		
	<u>Dispute (A40)</u>			
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
	<u>Substitute Provisions (A41)</u>			
41	State clauses (Clause 41) F:..... V:..... T:.....	Item		
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THE SCHEDULE

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder

42 Pre-tender information (clause 42)

F:..... V:..... T:.....

Item

42.1 CONTRACTING AND OTHER PARTIES

42.1.1 Employer: The Mvula Trust

42.1.2 Principal Agent: Nemorango Consulting

42.2 CONTRACT DETAILS

42.2.1 Works Description: Construction of water and sanitation facilities

42.2.2 Site Description: As per the information provided in the tender data

42.2.3 Work or installations by direct contractors:

As per the information provided in the tender data

42.2.4 This agreement is for a government contract where there are specific options that are applicable to a **State** organ only

Yes

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42.2.5 Date on which possession of the site is intended to be given:

As per the information provided in the tender data

42.2.6 Period for the commencement of the works after the contractor takes possession of site:

Seven days

42.2.7 For the works **as a whole**. Intended date of practical completion and the penalty per calendar day

Intended Date of Practical Completion: As per the information provided in the tender data

Penalty Amount:

*The penalty per **calendar day** shall be: 0.1% of the tendered amount (inclusive of value added tax)*

42.2.8 For the works in **sections**: Intended date of practical completion and the penalty per calendar day

Section 1

N/A..... Date

N/A..... Penalty Amount

42.2.9 The **law** applicable to this **agreement** shall be that of:

South Africa (Country)

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42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

*Contractor:**For the Sum of R Contract Amount + 10.00 %**With a deductible amount the contractor deems appropriate*

42.3.2 Supplementary insurance is required:

No

42.3.3 Public liability insurance to be effected by:

*Contractor:**For the Sum of R 5 000 000-00**With a deductible amount the contractor deems appropriate***42.4 DOCUMENTS**42.4.1 Waivers of **contractors lien** or right of continuing possession is required*Yes*42.4.2 Number of construction document copies to be supplied to the **contractor** free of charge:*3 Number of*42.4.3 **Bills of Quantities/Lump sum document** schedule of rates drawn up in accordance with:*"Standard System of Measuring Builders' Work"***Carried to Collection****R**

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42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within:

5 Working days

The priced bills of quantities must be handed in with the tender

42.4.5 JBCC Engineering General Conditions are to be included in the **contract documents**:

No

42.4.6 The contract value is to be adjusted using escalation adjustment indices

No

Where **JBCC CPAP** is to be used

Base Month N/A

42.4.7 Details of changes made to the provision of JBCC standard documentation:

Part 1 - Contract Data completed by the Employer

SECTION B: PRELIMINARIES

Definitions and interpretation (B1)

43 Definition and interpretation (B1.1 - B1.4.6)

F:..... V:..... T:.....

Item

Documents (B2)

44 Checking of documents (B2.1)

F:..... V:..... T:.....

Item

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45	Provisional bills of quantities (B2.2)				
	F:..... V:..... T:.....	N/A			
46	Availability of construction documentation (B2.3)				
	F:..... V:..... T:.....	Item			
47	Interests of agents (B2.4)				
	F:..... V:..... T:.....	Item			
48	Priced documents (B2.5)				
	F:..... V:..... T:.....	Item			
49	Tender submission (B2.6)				
	F:..... V:..... T:.....	Item			
50	Defined works area (B3.1)				
	F:..... V:..... T:.....	Item			
	<u>The site (B3)</u>				
51	Geotechnical investigation (B3.2)				
	F:..... V:..... T:.....	Item			
52	Inspection of the site (B3.3)				
	F:..... V:..... T:.....	Item			
	Existing premises occupied (B3.4)				
	F:..... V:..... T:.....				
	Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.				
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Temporary works and plant (B6)

67 Deposits and fees (B6.1)

F:..... V:..... T:.....

Item

68 Enclosure of the works (B6.2)

F:..... V:..... T:.....

Item

69 Advertising (B6.3)

F:..... V:..... T:.....

Item

70 Plant, equipment, sheds and offices (B6.4)

F:..... V:..... T:.....

Item

71 Main notice board (B6.5)

F:..... V:..... T:.....

Item

72 Subcontractors' notice board (B6.6)

F:..... V:..... T:.....

N/A

Temporary services (B7)

73 Location (B7.1)

F:..... V:..... T:.....

Item

74 Water (B7.2)

Option [A] shall apply

F:..... V:..... T:.....

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Financial aspects (B10)

Statutory taxes, duties and levies (B10.1)

F:..... V:..... T:.....

Item

82 Payment of preliminaries (B10.2)

Option [B] shall apply

F:..... V:..... T:.....

Item

83 Adjustment of preliminaries (B10.3)

Option [A] shall apply

F:..... V:..... T:.....

Item

84 Payment certificate cash flow (B10.4)

F:..... V:..... T:.....

Item

General (B11)

85 Protection of works (B11.1)

F:..... V:..... T:.....

Item

86 Protection/isolation of existing/sectionally occupied works (B11.2)

F:..... V:..... T:.....

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95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
	<u>Schedule of variables (B12)</u>			
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No			
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	12.1.5 Geotechnical investigation (B3.2) N/A			
	12.1.6 Existing premises occupied (B3.4)			
	12.1.7 Previous work - dimensional accuracy (B3.4)			
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SECTION C: SPECIFIC PRELIMINARIES

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

98 **Site instructions**

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

99 **Black economic empowerment and training**

F: V: T:

Item

100 **Proprietary branded products**

F: V: T:

Item

101 **Testing of flat roof waterproofing for watertightness**

Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing

F: V: T:

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	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative			
102	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor	Item		
103	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
104	Plant record F:..... V:..... T:..... 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 used on the works each day of that week	Item		
105	Guarantees F:..... V:..... T:.....	Item		
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Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement

106 Overtime

F:..... V:..... T:.....

Item

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 principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer

107 Co-operation of contractor for cost management

F:..... V:..... T:.....

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It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors

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108 Occupational Health and Safety Specification

F:..... V:..... T:.....

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained

The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained

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109	Occupational Health and Safety Specification F:..... V:..... T:..... Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines	Item		
110	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
111	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
112	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of reflective vests	Item		
113	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hard hats	Item		
114	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of protective footwear	Item		
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115	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of earplugs	Item		
116	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of dust masks	Item		
117	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of gloves	Item		
118	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of high visibility overalls to SARTSM Chapter 13 Level 3	Item		
119	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of SANS approved ear defenders	Item		
120	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of face masks (Covid -19)	Item		
121	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of face shields (Covid -19)	Item		
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122	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of gloves (Covid -19)	Item		
123	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid -19)	Item		
124	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)	Item		
125	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)	Item		
126	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)	Item		
127	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of signage, including Covid -19 related signage	Item		
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128	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of full time construction health and safety officer (SACPCMP Registered)	Item		
129	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations	Item		
130	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Medical screenings, examinations, etc in terms of Covid-19 regulations	Item		
131	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Induction training, including Covid-19 training	Item		
132	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of first aid boxes to GSR requirements	Item		
133	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item		
134	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Submission of health and safety file	Item		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>REMOVAL OF EXISTING WORK:</u>			
	NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.			
	DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.			
	PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.			
	PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must			
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make good at his own expense any damage that may occur.

OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.

MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.

DEMOLITIONS, ETC.

Budgetary allowance

- 1 Allow the budgetary amount of R55 000.00 (fifty five thousand rands) for demolition of dilapidated inappropriate toilets structure to be used as directed by the Principal Agent and deducted in whole or in part if not required

Item

55 000.00

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	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>REMOVAL OF EXISTING WORK:</u>			
	NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.			
	DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.			
	PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.			
	PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must			
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make good at his own expense any damage that may occur.

OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.

MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.

DEMOLITIONS, ETC.

Budgetary allowance

- 1 Allow the budgetary amount of R55 000.00 (fifty five thousand rands) for demolition of dilapidated inappropriate toilets structure to be used as directed by the Principal Agent and deducted in whole or in part if not required

Item

55 000.00

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	<u>Breaking up and removing mass concrete</u>				
2	Concrete aprons, size approximately 1000mm Wide x 125mm thick	m	50		
	<u>Taking out and removing doors, windows, etc</u>				
3	Timber single door 813 x 2032mm high	No	12		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
4	Corrugated iron roof covering, rafters and timber purlins	m2	65		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes</u>				
5	Enviro-loo components complete including filling pits with excavated and or imported fill, compaction, soil poisoning, breaking down brickwork where necessary and bricking up the back wall, slab and preparing the surface to receive new soil drainage	No	8		
	<u>Taking out and removing glass and mirrors</u>				
6	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	2		
	<u>SERVICING OF DOORS AND WINDOWS</u>				
7	Replace window stays, handles and pegs (PC Amount R150-00 Vat excl supplied and delivered to site)	No	10		
8	Remove door striker plate and replace with new (PC Amount R150-00 Vat excl supplied and delivered to site)	No	4		
9	Replace missing striker plate with new (PC Amount R150-00 Vat excl supplied and delivered to site)	No	6		
10	Tighten loose door striker plate	No	2		
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Holes

1	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	4
2	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	8

FACE BRICKWORK

Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints

3	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	4
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MASONRY

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ALTERATIONS

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MASONRY

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MASONRY

Traffic Green color to be as follows:

Colour: Traffic Green

Gloss: 30+/-Gardner 60

Film Thickness: 17 - 22 Microns

Primer: Global Prime 204

Pencil Hardness: H

Flexibility: >8mm

Impact Resistance: >30 INLB on HDG

Bending: 2 Ton HDG

Solvent Resistance: > 100 Double Rubs with MEK

Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe

Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)

Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

Global Roofing Solutions 0,58mm thick 700mm cover Klip-Lok 700™ profile Chromadek Z200 spelter ISQ550 Traffic Green finish top coat and grey backing coat galvanised steel roof sheeting, fixed to timber intermediate purlins at 2500mm centres and eaves and ridge purlins at 2100mm centres using KL700 clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications.

• Installation region: exceeding 5km from the coast.

1	Roof covering with pitch not exceeding 25 degrees	m2	138
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	130

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ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

Decorative laminate finish:

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

ROOFS, ETC.**Sawn softwood**

1	38 x 114mm Wall plates	m	18
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	64
3	50 x 76mm Purlins in lengths exceeding 8,1m and not exceeding 9,6m	m	12

Sundries

4	Two coats creosote on sawn timbers	m2	5
5	MiTek® eCo hurricane clips hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	50

EAVES, VERGES, ETC**"Everite FC77" pressed fibre-cement**

6	Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.	m	20
7	Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.	m	26

DOORS, ETC**Carried to Collection**

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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	<u>BILL NO.5</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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 Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	4	
3	ASSA ABLOY Gower handle on 152 x 41mm backplate with Satin Chrome finish (Code: CZ682-24SC) including 3 lever upright lock (Code: 2252-76SS).	No	12	
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	IRONMONGERY			

4	UNION stainless steel indicator bolts (code: SS8023SS) with Stainless Steel finish.	No	8		
	<u>SUNDRIES</u>				
	<u>"ASSA ABLOY" or similar approved</u>				
5	UNION aluminium door stop (code: AL8730AS) with Anodised Silver finish.	No	4		
	<u>Stainless steel kick/push plates</u>				
6	150 x 300mm High x 1,2mm thick stainless steel push plate	No	8		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberley-Clark or similar approved"</u>				
7	SQ2 code 405607B white none lockable toilet roll holder plugged to wall	No	8		
8	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	4		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>"ASSA ABLOY" or similar approved</u>				
9	ASSA ABLOY Aluminium engraved plate E10, size 152 x 152mm (Code: AL5066-06ASE10). (Male)	No	1		
10	ASSA ABLOY Aluminium engraved plate E11, size 152 x 152mm (Code: AL5066-06ASE11). (Female)	No	1		
	<u>Stainless steel:</u>				
11	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	4		
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IRONMONGERY

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IRONMONGERY

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	<u>BILL NO.7</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>RAINWATER DISPOSAL</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 100mm Eaves gutters with beaded front edge	m	10	
2	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	4	
3	Extra over eaves gutter for stopped end	No	4	
4	75 x 100mm Diameter rainwater pipes	m	8	
5	Extra over 75 X 100mm rainwater pipe for shoe	No	4	
6	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection	No	4	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or similar approved:</u>			
7	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	4	
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	PLUMBING AND DRAINAGE			

8	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	8		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra Watertech"</u>					
9	Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	4		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
10	"Cobra Ref. 365/40" CP bottle trap	No	4		
<u>TAPS, VALVES, ETC</u>					
11	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	12		
12	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	4		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
13	50mm Pipes	m	4		
14	110mm Pipes	m	8		
15	50mm Pipes laid in and including trenches not exceeding 1m deep	m	4		
<u>Extra over uPVC pipes for fittings</u>					
16	50mm BSP adaptor	No	2		
17	50mm Bend	No	4		
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18	50mm Access bend	No	4
19	50mm Access junction	No	4
20	50mm Junction	No	4
21	110mm Bend	No	8
22	110mm Junction	No	10
23	110mm Pan connector	No	10
24	110mm Access bend	No	2
25	110mm Access junction	No	2
26	110mm "GI Two-way" vent valve	No	2

WATER SUPPLIESThe following in trenches for pipes (pipes e/m)

27	Excavation not exceeding 2m deep	m3	68
28	<u>Extra over trench and hole excavations in earth for excavation in soft rock</u>	m3	10
29	Extra over trench and hole excavations in earth for excavation in hard rock	m3	21
30	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	228
31	Backfilling to trenches, holes, with materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density	m3	68
	<u>Class 12 uPVC pipes with solvent welded joints</u>		
32	22mm Pipes laid in and including trenches not exceeding 1m deep incl. all excavations, backfilling, etc.	m	114

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TESTING

45 Provide all necessary apparatus water, etc for and test the whole of the Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect

Item

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PLUMBING AND DRAINAGE

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	<p><u>Plascon Sure Coat Gloss Enamel to exterior new fibre cement. Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u></p>				
1	On fascias and barge boards	m2	24		
	<p><u>ON WOOD</u></p>				
	<p><u>Plascon Woodcare Clear Varnish to exterior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Woodcare Clear Varnish (CVE 5) with an overcoating time of 16 hours and finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u></p>				
2	On doors	m2	43		
	<p><u>PAINT TO PREVIOUSLY PAINTED SURFACES</u></p>				
	<p><u>ON METAL</u></p>				
	<p>Section No. 3 ALTERATIONS Bill No. 9 PAINTWORK</p>			R	

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Plascon Velvagio Satin to existing solvent based coated exterior mild steel (RD 683). Remove all paint and rust completely. Apply Plascon Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Converter (EMS 21) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1) or Professional Undercoat (PU 800) to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

3	On door frames	m2	20
4	On windows with burglar bars	m2	11
5	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	30

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5	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	50		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	74		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	99		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
8	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m	74		

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 CONCRETE APRONS

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CONCRETE APRONS

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CONCRETE APRONS

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Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

SITE CLEARANCE ETC**Site clearance**

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 59 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 59 |
|---|---|----|----|

EXCAVATION, FILLING, ETC**Excavation in earth not exceeding 2m deep**

- | | | | |
|---|----------|----|----|
| 3 | Trenches | m3 | 11 |
|---|----------|----|----|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 1 |

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	47		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	17		
	<u>Soil insecticide</u>				
16	To bottoms and sides of trenches etc	m2	47		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	17		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
	<u>15MPa/19mm concrete</u>				
18	Surface blinding under footings and bases	m3	1		
	<u>25MPa/19mm concrete</u>				
19	Strip footings	m3	3		
<u>REINFORCEMENT</u>					
	<u>Fabric reinforcement</u>				
20	Steeledale Mesh standard square fabric mesh, nominal mass 8,88 kg/m ² with nominal 12mm thick wires and 200 x 200mm pitch (code 888), complying with SANS 1024/2006 requirements cut to 500mm width and laid loose in concrete strip footings	m	21		
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TEST CUBES

21	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	6		
----	--	------	---	--	--

BRICKWORKBrickwork of NFP bricks in class II mortar

22	One brick walls	m2	14		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

23	150mm Wide reinforcement built in horizontally	m	7		
----	--	---	---	--	--

FACE BRICKWORKFace bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints

24	Extra over brickwork for face brickwork	m2	6		
----	---	----	---	--	--

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Section No. 4

MD1

Bill No. 1

FOUNDATIONS

COLLECTION

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MD1

Bill No. 1

FOUNDATIONS

"Foamcement " lightweight concrete

"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm

"Celbeton" lightweight concrete

"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm

Formwork

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

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

**UNREINFORCED CONCRETE CAST
AGAINST EXCAVATED SURFACES****Carried to Collection**

Section No. 4

MD1

Bill No. 2

CONCRETE, FORMWORK & REINFORCEMENT

R

R

<u>Mesh Reinforcement (measure nett):</u>			
8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	17
Carried to Collection			R
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CONCRETE, FORMWORK & REINFORCEMENT			

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CONCRETE, FORMWORK & REINFORCEMENT

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CONCRETE, FORMWORK & REINFORCEMENT

	<u>Brickwork of NFP bricks in class II mortar</u>				
1	Half brick walls in beamfilling	m2	3		
2	One brick walls	m2	58		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	60		
4	150mm Wide reinforcement built in horizontally	m	248		
	<u>Galvanised wire ties etc</u>				
5	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	12		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	7		
7	230mm Wide turning pieces to lintels etc	m	2		
	<u>Holes</u>				
8	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	11		
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	2		
	<u>FACE BRICKWORK</u>				
	<u>Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
10	Extra over brickwork for face brickwork	m2	120		
11	Half brick wall faced on both sides	m2	5		
	Carried to Collection			R	
	Section No. 4				
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	Bill No. 3				
	MASONRY				

12	Extra over brickwork for brick-on-edge header course lintel	m	5		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	11		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
14	110mm Wide sill set level and slightly projecting	m	3		
15	220mm Wide sill set sloping and slightly protecting outside	m	3		
Carried to Collection					R
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MASONRY					

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Bill No. 3

MASONRY

COLLECTION

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MD1

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MASONRY

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	6	
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	17	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>			
3	Around steel windows and door frames	m	55	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	MD1			
	Bill No. 4			
	WATERPROOFING			
			R	

Traffic Green color to be as follows:

Colour: Traffic Green

Gloss: 30+/-Gardner 60

Film Thickness: 17 - 22 Microns

Primer: Global Prime 204

Pencil Hardness: H

Flexibility: >8mm

Impact Resistance: >30 INLB on HDG

Bending: 2 Ton HDG

Solvent Resistance: > 100 Double Rubs with MEK

Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe

Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)

Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

Global Roofing Solutions 0,58mm thick 700mm cover Klip-Lok 700™ profile Chromadek Z200 spelter ISQ550 Traffic Green finish top coat and grey backing coat galvanised steel roof sheeting, fixed to timber intermediate purlins at 2500mm centres and eaves and ridge purlins at 2100mm centres using KL700 clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications.

• Installation region: exceeding 5km from the coast.

1	Roof covering with pitch not exceeding 25 degrees	m2	33
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	30

Carried to Collection

R

Section No. 4

MD1

Bill No. 5

ROOF COVERINGS, ETC

Section No. 4

MD1

Bill No. 5

ROOF COVERINGS, ETC

COLLECTION

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MD1

Bill No. 5

ROOF COVERINGS, ETC

R

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Decorative laminate finish:

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

ROOFS, ETC.**Sawn softwood**

1	38 x 114mm Wall plates	m	11
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	26
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	31

Sundries

4	Two coats creosote on sawn timbers	m2	3
5	MiTek® eCo hurricane clips hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	20

EAVES, VERGES, ETC**"Everite FC77" pressed fibre-cement**

6	Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.	m	11
7	Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.	m	10

DOORS, ETC**Carried to Collection**

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Section No. 4

MD1

Bill No. 6

CARPENTRY AND JOINERY

Section No. 4

MD1

Bill No. 6

CARPENTRY AND JOINERY

COLLECTION

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MD1

Bill No. 6

CARPENTRY AND JOINERY

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>BILL NO.7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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 Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	2	
3	ASSA ABLOY Gower handle on 152 x 41mm backplate with Satin Chrome finish (Code: CZ682-24SC) including 3 lever upright lock (Code: 2252-76SS).	No	2	
	Carried to Collection			R
	Section No. 4			
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	Bill No. 7			
	IRONMONGERY			

4	UNION stainless steel indicator bolts (code: SS8023SS) with Stainless Steel finish.	No	1		
5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	Pairs	1.0		
<u>SUNDRIES</u>					
<u>"ASSA ABLOY" or similar approved</u>					
6	UNION aluminium door stop (code: AL8730AS) with Anodised Silver finish.	No	3		
<u>Stainless steel kick/push plates</u>					
7	150 x 300mm High x 1,2mm thick stainless steel push plate	No	1		
8	900 x 300mm High x 1,2mm thick stainless steel kick plate	No	1		
<u>"Vaal Paragon" or similar approved</u>					
9	32mm Type 9 back grab rail 800mm long plugged	No	1		
10	32mm Type 8 side grab rail 900mm girth plugged	No	1		
<u>BATHROOM FITTINGS</u>					
<u>"Kimberley-Clark or similar approved"</u>					
11	SQ2 code 405607B white none lockable toilet roll holder plugged to wall	No	2		
<u>LETTERS, NAMEPLATES, ETC</u>					
<u>"ASSA ABLOY" or similar approved</u>					
12	ASSA ABLOY Aluminium engraved plate E10, size 152 x 152mm (Code: AL5066-06ASE10). (Male)	No	1		
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IRONMONGERY					

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IRONMONGERY

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MD1

Bill No. 7

IRONMONGERY

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1.2mm Double rebated frames suitable for one brick walls

3	Frame for door size 813 x 2032mm high	No	1
4	Frame for door size 914 x 2032mm high	No	1

STEEL WINDOWS, DOORS, ETC

"Nty" steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes

5	Window type NE1, size 533 x 654mm high	No	4
6	Window type NE7, size 1022 x 654mm high	No	1

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Section No. 4
MD1
Bill No. 8
METALWORK

Section No. 4

MD1

Bill No. 8

METALWORK

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MD1

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METALWORK

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>BILL NO.10</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>RAINWATER DISPOSAL</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 100mm Eaves gutters with beaded front edge	m	6	
2	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
3	Extra over eaves gutter for stopped end	No	2	
4	75 x 100mm Diameter rainwater pipes	m	4	
5	Extra over 75 X 100mm rainwater pipe for shoe	No	2	
6	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection	No	2	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or similar approved:</u>			
7	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	3	
	Carried to Collection			
	Section No. 4			
	MD1			
	Bill No. 10			
	PLUMBING AND DRAINAGE			

8	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246) comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern (Code: 710631), including lid, fitments and purpose-made chromium plated side flush lever and B2 economy double flap thermoset seat.	No	1		
9	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	1		
10	Vaal Sanitaryware 600 x 385 x 380mm Lavatera top inlet white vitreous china wall mounted urinal (Code: 705426WH) including 38mm chromium plated domical grating and chromium plated top inlet spreader (Code: 8542Z000), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (Code: 8127Z000).	No	8		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra Watertech"</u>					
11	Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	3		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
12	"Cobra Ref. 365/40" CP bottle trap	No	3		
13	"Cobra Ref. 365/50" CP bottle trap	No	8		
<u>TAPS, VALVES, ETC</u>					
14	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	5		
15	Cobra Watertech chrome plated 15mm outlet x 215mm long with 27mm offset urinal flush pipe (Code: FJT5.5).	No	8		
Carried to Collection				R	
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PLUMBING AND DRAINAGE					

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
MODIPE SECONDARY SCHOOL**

[illegible]

	<u>Plascon Woodcare Clear Varnish to exterior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Woodcare Clear Varnish (CVE 5) with an overcoating time of 16 hours and finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u>				
5	On doors	m2	7		
	<u>Plascon Professional Eggshell Enamel to interior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u>				
6	On doors	m2	4		
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Bill No. 12					
PAINTWORK					

Section No. 4

MD1

Bill No. 12

PAINTWORK

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MD1

Bill No. 12

PAINTWORK

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5	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	23		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	23		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	23		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
8	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m	23		
Carried to Collection				R	
Section No. 4					
MD1					
Bill No. 13					
CONCRETE APRONS					

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MD1

Bill No. 13

CONCRETE APRONS

COLLECTION

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MD1

Bill No. 13

CONCRETE APRONS

R

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Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

SITE CLEARANCE ETC**Site clearance**

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 66 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 66 |
|---|---|----|----|

EXCAVATION, FILLING, ETC**Excavation in earth not exceeding 2m deep**

- | | | | |
|---|----------|----|----|
| 3 | Trenches | m3 | 12 |
|---|----------|----|----|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 1 |

Carried to Collection**R**

Section No. 5
MD2
Bill No. 1
FOUNDATIONS

R

	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	51		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	20		
	<u>Soil insecticide</u>				
16	To bottoms and sides of trenches etc	m2	51		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	20		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
	<u>15MPa/19mm concrete</u>				
18	Surface blinding under footings and bases	m3	1		
	<u>25MPa/19mm concrete</u>				
19	Strip footings	m3	4		
<u>REINFORCEMENT</u>					
	<u>Fabric reinforcement</u>				
20	Steeledale Mesh standard square fabric mesh, nominal mass 8,88 kg/m ² with nominal 12mm thick wires and 200 x 200mm pitch (code 888), complying with SANS 1024/2006 requirements cut to 500mm width and laid loose in concrete strip footings	m	23		
Carried to Collection				R	
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MD2					
Bill No. 1					
FOUNDATIONS					

TEST CUBES

21	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	8		
----	--	------	---	--	--

BRICKWORKBrickwork of NFP bricks in class II mortar

22	One brick walls	m2	15		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

23	150mm Wide reinforcement built in horizontally	m	7		
----	--	---	---	--	--

FACE BRICKWORKFace bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints

24	Extra over brickwork for face brickwork	m2	7		
----	---	----	---	--	--

Carried to Collection**R**

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MD2
Bill No. 1
FOUNDATIONS

Section No. 5

MD2

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FOUNDATIONS

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MD2

Bill No. 1

FOUNDATIONS

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"Foamcement " lightweight concrete

"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm

"Celbeton" lightweight concrete

"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm

Formwork

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

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

**UNREINFORCED CONCRETE CAST
AGAINST EXCAVATED SURFACES**

Carried to Collection

Section No. 5

MD2

Bill No. 2

CONCRETE, FORMWORK & REINFORCEMENT

R

R

<u>Mesh Reinforcement (measure nett):</u>			
8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	20
Carried to Collection			R
Section No. 5			
MD2			
Bill No. 2			
CONCRETE, FORMWORK & REINFORCEMENT			

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CONCRETE, FORMWORK & REINFORCEMENT

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MD2

Bill No. 2

CONCRETE, FORMWORK & REINFORCEMENT

R

	<u>Brickwork of NFP bricks in class II mortar</u>				
1	Half brick walls in beamfilling	m2	3		
2	One brick walls	m2	63		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	93		
4	150mm Wide reinforcement built in horizontally	m	271		
	<u>Galvanised wire ties etc</u>				
5	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	15		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	9		
7	230mm Wide turning pieces to lintels etc	m	2		
	<u>Holes</u>				
8	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	5		
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	3		
	<u>FACE BRICKWORK</u>				
	<u>Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
10	Extra over brickwork for face brickwork	m2	132		
11	Half brick wall faced on both sides	m2	10		
	Carried to Collection			R	
	Section No. 5				
	MD2				
	Bill No. 3				
	MASONRY				

12	Extra over brickwork for brick-on-edge header course lintel	m	5		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	5		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
14	110mm Wide sill set level and slightly projecting	m	4		
15	220mm Wide sill set sloping and slightly protecting outside	m	4		
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Traffic Green color to be as follows:

Colour: Traffic Green

Gloss: 30+/-Gardner 60

Film Thickness: 17 - 22 Microns

Primer: Global Prime 204

Pencil Hardness: H

Flexibility: >8mm

Impact Resistance: >30 INLB on HDG

Bending: 2 Ton HDG

Solvent Resistance: > 100 Double Rubs with MEK

Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe

Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)

Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

Global Roofing Solutions 0,58mm thick 700mm cover Klip-Lok 700™ profile Chromadek Z200 spelter ISQ550 Traffic Green finish top coat and grey backing coat galvanised steel roof sheeting, fixed to timber intermediate purlins at 2500mm centres and eaves and ridge purlins at 2100mm centres using KL700 clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications.

• Installation region: exceeding 5km from the coast.

1	Roof covering with pitch not exceeding 25 degrees	m2	39
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	35

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ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

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Decorative laminate finish:

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

ROOFS, ETC.**Sawn softwood**

1	38 x 114mm Wall plates	m	13
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	31
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	36

Sundries

4	Two coats creosote on sawn timbers	m2	4
5	MiTek® eCo hurricane clips hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	20

EAVES, VERGES, ETC**"Everite FC77" pressed fibre-cement**

6	Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.	m	13
7	Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.	m	10

DOORS, ETC**Carried to Collection**

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>BILL NO.7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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 Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	2	
3	ASSA ABLOY Gower handle on 152 x 41mm backplate with Satin Chrome finish (Code: CZ682-24SC) including 3 lever upright lock (Code: 2252-76SS).	No	2	
	Carried to Collection			R
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	IRONMONGERY			

4	UNION stainless steel indicator bolts (code: SS8023SS) with Stainless Steel finish.	No	2		
5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	Pairs	1.0		
<u>SUNDRIES</u>					
<u>"ASSA ABLOY" or similar approved</u>					
6	UNION aluminium door stop (code: AL8730AS) with Anodised Silver finish.	No	4		
<u>Stainless steel kick/push plates</u>					
7	150 x 300mm High x 1,2mm thick stainless steel push plate	No	3		
8	900 x 300mm High x 1,2mm thick stainless steel kick plate	No	1		
<u>"Vaal Paragon" or similar approved</u>					
9	32mm Type 9 back grab rail 800mm long plugged	No	1		
10	32mm Type 8 side grab rail 900mm girth plugged	No	1		
<u>BATHROOM FITTINGS</u>					
<u>"Kimberley-Clark or similar approved"</u>					
11	SQ2 code 405607B white none lockable toilet roll holder plugged to wall	No	3		
<u>LETTERS, NAMEPLATES, ETC</u>					
<u>"ASSA ABLOY" or similar approved</u>					
12	ASSA ABLOY Aluminium engraved plate E10, size 152 x 152mm (Code: AL5066-06ASE10). (Male)	No	1		
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IRONMONGERY

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IRONMONGERY

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1.2mm Double rebated frames suitable for one brick walls

3	Frame for door size 813 x 2032mm high	No	1
4	Frame for door size 914 x 2032mm high	No	1

STEEL WINDOWS, DOORS, ETC

"Nty" steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes

5	Window type NE1, size 533 x 654mm high	No	5
6	Window type NE7, size 1022 x 654mm high	No	1

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METALWORK

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METALWORK

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METALWORK

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>BILL NO.10</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>RAINWATER DISPOSAL</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 100mm Eaves gutters with beaded front edge	m	7	
2	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
3	Extra over eaves gutter for stopped end	No	2	
4	75 x 100mm Diameter rainwater pipes	m	4	
5	Extra over 75 X 100mm rainwater pipe for shoe	No	2	
6	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection	No	2	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or similar approved:</u>			
7	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	3	
	Carried to Collection			
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	PLUMBING AND DRAINAGE			

8	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246) comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern (Code: 710631), including lid, fitments and purpose-made chromium plated side flush lever and B2 economy double flap thermoset seat.	No	1		
9	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	2		
10	Vaal Sanitaryware 600 x 385 x 380mm Lavatera top inlet white vitreous china wall mounted urinal (Code: 705426WH) including 38mm chromium plated domical grating and chromium plated top inlet spreader (Code: 8542Z000), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (Code: 8127Z000).	No	2		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra Watertech"</u>					
11	Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	3		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
12	"Cobra Ref. 365/40" CP bottle trap	No	3		
13	"Cobra Ref. 365/50" CP bottle trap	No	2		
<u>TAPS, VALVES, ETC</u>					
14	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	6		
15	Cobra Watertech chrome plated 15mm outlet x 215mm long with 27mm offset urinal flush pipe (Code: FJT5.5).	No	2		
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16	Cobra Watertech 32mm cast brass gate valve (Code: 1001/125-32) parallel F x F threaded inlets, non-rising spindle and guided wedge.	No	1		
17	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	2		
18	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1		
19	Cobra Watertech exposed urinal chrome plated Junior Flushmaster flushvalve (code: FJ6.000) with non-hold open feature, wall flange and 20mm "Ball-o-Stop" control inlet.	No	2		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
20	50mm Pipes	m	25		
21	110mm Pipes	m	10		
22	50mm Pipes laid in and including trenches not exceeding 1m deep	m	30		
<u>Extra over uPVC pipes for fittings</u>					
23	50mm BSP adaptor	No	4		
24	50mm Bend	No	9		
25	50mm Access bend	No	4		
26	50mm Junction	No	6		
27	110mm Bend	No	5		
28	110mm Junction	No	4		
29	110mm Pan connector	No	3		
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30	110mm Access bend	No	1		
31	110mm "GI Two-way" vent valve	No	1		
<u>WATER SUPPLIES</u>					
<u>"Polylink" polypropylene pipes</u>					
32	15mm Pipes	m	10		
<u>Extra over "Polylink" polypropylene pipes for fittings</u>					
33	15mm Fittings	No	12		
<u>Class 0 copper pipes</u>					
34	15mm Pipes	m	16		
35	22mm Pipes	m	8		
36	15mm Pipes chased into brickwork	m	7		
37	22mm Pipes chased into brickwork	m	7		
<u>Extra over class 0 copper pipes for capillary fittings</u>					
38	15mm Fittings	No	25		
39	22mm Fittings	No	6		
<u>TESTING</u>					
40	Provide all necessary apparatus water, etc for and test the whole of the Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect			Item	
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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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	<u>Plascon Woodcare Clear Varnish to exterior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Woodcare Clear Varnish (CVE 5) with an overcoating time of 16 hours and finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u>				
5	On doors	m2	7		
	<u>Plascon Professional Eggshell Enamel to interior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u>				
6	On doors	m2	7		
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PAINTWORK

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5	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	23		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	23		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	23		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
8	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m	23		
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CONCRETE APRONS

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CONCRETE APRONS

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

SITE CLEARANCE ETC**Site clearance**

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 57 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 57 |
|---|---|----|----|

EXCAVATION, FILLING, ETC**Excavation in earth not exceeding 2m deep**

- | | | | |
|---|----------|----|----|
| 3 | Trenches | m3 | 11 |
|---|----------|----|----|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 1 |

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	46		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	17		
	<u>Soil insecticide</u>				
16	To bottoms and sides of trenches etc	m2	46		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	17		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
	<u>15MPa/19mm concrete</u>				
18	Surface blinding under footings and bases	m3	1		
	<u>25MPa/19mm concrete</u>				
19	Strip footings	m3	3		
<u>REINFORCEMENT</u>					
	<u>Fabric reinforcement</u>				
20	Steeledale Mesh standard square fabric mesh, nominal mass 8,88 kg/m ² with nominal 12mm thick wires and 200 x 200mm pitch (code 888), complying with SANS 1024/2006 requirements cut to 500mm width and laid loose in concrete strip footings	m	21		
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TEST CUBES

21	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	6		
----	--	------	---	--	--

BRICKWORKBrickwork of NFP bricks in class II mortar

22	One brick walls	m2	13		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

23	150mm Wide reinforcement built in horizontally	m	7		
----	--	---	---	--	--

FACE BRICKWORKFace bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints

24	Extra over brickwork for face brickwork	m2	6		
----	---	----	---	--	--

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"Foamcement " lightweight concrete

"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm

"Celbeton" lightweight concrete

"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm

Formwork

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

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

**UNREINFORCED CONCRETE CAST
AGAINST EXCAVATED SURFACES**

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CONCRETE, FORMWORK & REINFORCEMENT

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CONCRETE, FORMWORK & REINFORCEMENT

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	<u>Brickwork of NFP bricks in class II mortar</u>				
1	Half brick walls in beamfilling	m2	3		
2	One brick walls	m2	56		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	101		
4	150mm Wide reinforcement built in horizontally	m	243		
	<u>Galvanised wire ties etc</u>				
5	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	12		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	9		
7	230mm Wide turning pieces to lintels etc	m	2		
	<u>Holes</u>				
8	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	4		
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	2		
	<u>FACE BRICKWORK</u>				
	<u>Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
10	Extra over brickwork for face brickwork	m2	117		
11	Half brick wall faced on both sides	m2	13		
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12	Extra over brickwork for brick-on-edge header course lintel	m	5		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	4		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
14	110mm Wide sill set level and slightly projecting	m	3		
15	220mm Wide sill set sloping and slightly protecting outside	m	3		
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MASONRY

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Traffic Green color to be as follows:

Colour: Traffic Green

Gloss: 30+/-Gardner 60

Film Thickness: 17 - 22 Microns

Primer: Global Prime 204

Pencil Hardness: H

Flexibility: >8mm

Impact Resistance: >30 INLB on HDG

Bending: 2 Ton HDG

Solvent Resistance: > 100 Double Rubs with MEK

Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe

Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)

Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

Global Roofing Solutions 0,58mm thick 700mm cover

Klip-Lok 700™ profile Chromadek Z200 spelter ISQ550

Traffic Green finish top coat and grey backing coat

galvanised steel roof sheeting, fixed to timber

intermediate purlins at 2500mm centres and eaves and

ridge purlins at 2100mm centres using KL700 clips fixed

with 10No.11 x 45mm long self drilling wafer head PH2

screws, type 17 drill point fasteners, all in accordance

with the manufacturer's specifications.

• Installation region: exceeding 5km from the coast.

1	Roof covering with pitch not exceeding 25 degrees	m2	32
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	29

Carried to Collection

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ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

R

Decorative laminate finish:

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

ROOFS, ETC.**Sawn softwood**

1	38 x 114mm Wall plates	m	11
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	25
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	29

Sundries

4	Two coats creosote on sawn timbers	m2	3
5	MiTek® eCo hurricane clips hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	20

EAVES, VERGES, ETC**"Everite FC77" pressed fibre-cement**

6	Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.	m	12
7	Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.	m	10

DOORS, ETC**Carried to Collection****R**

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Bill No. 6

CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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	<u>BILL NO.7</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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 Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	2	
3	ASSA ABLOY Gower handle on 152 x 41mm backplate with Satin Chrome finish (Code: CZ682-24SC) including 3 lever upright lock (Code: 2252-76SS).	No	2	
	Carried to Collection		R	
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"ASSA ABLOY" or similar approved

13	ASSA ABLOY Aluminium engraved plate E11, size 152 x 152mm (Code: AL5066-06ASE11). (Female)	No	1
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14	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	No	1
----	--	----	---

Stainless steel:

15	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	4
----	--	----	---

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IRONMONGERY

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1.2mm Double rebated frames suitable for one brick walls

3	Frame for door size 813 x 2032mm high	No	1
4	Frame for door size 914 x 2032mm high	No	1

STEEL WINDOWS, DOORS, ETC

"Nty" steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes

5	Window type NE1, size 533 x 654mm high	No	4
6	Window type NE7, size 1022 x 654mm high	No	1

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	<u>SECTION NO.6</u>			
	<u>BILL NO.10</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>RAINWATER DISPOSAL</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 100mm Eaves gutters with beaded front edge	m	6	
2	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2	
3	Extra over eaves gutter for stopped end	No	2	
4	75 x 100mm Diameter rainwater pipes	m	4	
5	Extra over 75 X 100mm rainwater pipe for shoe	No	2	
6	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection	No	2	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or similar approved:</u>			
7	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	4	
	Carried to Collection			
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	PLUMBING AND DRAINAGE			

8	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246) comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern (Code: 710631), including lid, fitments and purpose-made chromium plated side flush lever and B2 economy double flap thermoset seat.	No	1		
9	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	1		
<u>WASTE UNIONS ETC</u>					
	<u>"Cobra Watertech"</u>				
10	Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	4		
<u>TRAPS ETC</u>					
	<u>"Cobra Watertech"</u>				
11	"Cobra Ref. 365/40" CP bottle trap	No	4		
<u>TAPS, VALVES, ETC</u>					
12	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	6		
13	Cobra Watertech 32mm cast brass gate valve (Code: 1001/125-32) parrallel F x F threaded inlets, non-rising spindle and guided wedge.	No	1		
14	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	3		
15	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1		
<u>SANITARY PLUMBING</u>					
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PLUMBING AND DRAINAGE

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	<u>Plascon Woodcare Clear Varnish to exterior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Woodcare Clear Varnish (CVE 5) with an overcoating time of 16 hours and finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u>				
5	On doors	m2	7		
	<u>Plascon Professional Eggshell Enamel to interior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u>				
6	On doors	m2	11		
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PAINTWORK

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PAINTWORK

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CONCRETE APRONS

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Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

SITE CLEARANCE ETC**Site clearance**

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 78 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 78 |
|---|---|----|----|

EXCAVATION, FILLING, ETC**Excavation in earth not exceeding 2m deep**

- | | | | |
|---|----------|----|----|
| 3 | Trenches | m3 | 14 |
|---|----------|----|----|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 1 |

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	59		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	27		
	<u>Soil insecticide</u>				
16	To bottoms and sides of trenches etc	m2	59		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	27		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
	<u>15MPa/19mm concrete</u>				
18	Surface blinding under footings and bases	m3	1		
	<u>25MPa/19mm concrete</u>				
19	Strip footings	m3	4		
<u>REINFORCEMENT</u>					
	<u>Fabric reinforcement</u>				
20	Steeledale Mesh standard square fabric mesh, nominal mass 8,88 kg/m ² with nominal 12mm thick wires and 200 x 200mm pitch (code 888), complying with SANS 1024/2006 requirements cut to 500mm width and laid loose in concrete strip footings	m	27		
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TEST CUBES

21	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	9		
----	--	------	---	--	--

BRICKWORKBrickwork of NFP bricks in class II mortar

22	One brick walls	m2	17		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

23	150mm Wide reinforcement built in horizontally	m	9		
----	--	---	---	--	--

FACE BRICKWORKFace bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints

24	Extra over brickwork for face brickwork	m2	8		
----	---	----	---	--	--

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FOUNDATIONS

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"Foamcement " lightweight concrete

"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm

"Celbeton" lightweight concrete

"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm

Formwork

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

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

**UNREINFORCED CONCRETE CAST
AGAINST EXCAVATED SURFACES**

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CONCRETE, FORMWORK & REINFORCEMENT

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	<u>Brickwork of NFP bricks in class II mortar</u>				
1	Half brick walls in beamfilling	m2	4		
2	One brick walls	m2	73		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	195		
4	150mm Wide reinforcement built in horizontally	m	314		
	<u>Galvanised wire ties etc</u>				
5	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	19		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	16		
7	230mm Wide turning pieces to lintels etc	m	2		
	<u>Holes</u>				
8	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	5		
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	7		
	<u>FACE BRICKWORK</u>				
	<u>Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
10	Extra over brickwork for face brickwork	m2	154		
11	Half brick wall faced on both sides	m2	27		
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	MASONRY				

12	Extra over brickwork for brick-on-edge header course lintel	m	7		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	5		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
14	110mm Wide sill set level and slightly projecting	m	6		
15	220mm Wide sill set sloping and slightly protecting outside	m	6		
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MASONRY

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Traffic Green color to be as follows:

Colour: Traffic Green

Gloss: 30+/-Gardner 60

Film Thickness: 17 - 22 Microns

Primer: Global Prime 204

Pencil Hardness: H

Flexibility: >8mm

Impact Resistance: >30 INLB on HDG

Bending: 2 Ton HDG

Solvent Resistance: > 100 Double Rubs with MEK

Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe

Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)

Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

Global Roofing Solutions 0,58mm thick 700mm cover Klip-Lok 700™ profile Chromadek Z200 spelter ISQ550 Traffic Green finish top coat and grey backing coat galvanised steel roof sheeting, fixed to timber intermediate purlins at 2500mm centres and eaves and ridge purlins at 2100mm centres using KL700 clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications.

• Installation region: exceeding 5km from the coast.

1	Roof covering with pitch not exceeding 25 degrees	m2	49
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	43

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Bill No. 5

ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

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ROOF COVERINGS, ETC

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Decorative laminate finish:

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

ROOFS, ETC.**Sawn softwood**

1	38 x 114mm Wall plates	m	17
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	39
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	45

Sundries

4	Two coats creosote on sawn timbers	m2	5
5	MiTek® eCo hurricane clips hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	25

EAVES, VERGES, ETC**"Everite FC77" pressed fibre-cement**

6	Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.	m	18
7	Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.	m	10

DOORS, ETC**Carried to Collection**

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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 Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>CATCHES,CABIN HOOKS, ETC</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	2	
3	ASSA ABLOY Gower handle on 152 x 41mm backplate with Satin Chrome finish (Code: CZ682-24SC) including 3 lever upright lock (Code: 2252-76SS).	No	2	
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"ASSA ABLOY" or similar approved

13	ASSA ABLOY Aluminium engraved plate E11, size 152 x 152mm (Code: AL5066-06ASE11). (Female)	No	1
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14	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	No	1
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Stainless steel:

15	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	5
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IRONMONGERY

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1.2mm Double rebated frames suitable for one brick walls

3	Frame for door size 813 x 2032mm high	No	1
4	Frame for door size 914 x 2032mm high	No	1

STEEL WINDOWS, DOORS, ETC

"Nty" steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes

5	Window type NE1, size 533 x 654mm high	No	7
6	Window type NE7, size 1022 x 654mm high	No	2

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METALWORK

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METALWORK

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	<u>SECTION NO.7</u>			
	<u>BILL NO.10</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>RAINWATER DISPOSAL</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 100mm Eaves gutters with beaded front edge	m	9	
2	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	4	
3	Extra over eaves gutter for stopped end	No	2	
4	75 x 100mm Diameter rainwater pipes	m	8	
5	Extra over 75 X 100mm rainwater pipe for shoe	No	4	
6	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection	No	4	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or similar approved:</u>			
7	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	No	5	
	Carried to Collection			
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	PLUMBING AND DRAINAGE			

8	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246) comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern (Code: 710631), including lid, fitments and purpose-made chromium plated side flush lever and B2 economy double flap thermoset seat.	No	1		
9	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	6		
<u>WASTE UNIONS ETC</u>					
<u>"Cobra Watertech"</u>					
10	Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	5		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
11	"Cobra Ref. 365/40" CP bottle trap	No	5		
<u>TAPS, VALVES, ETC</u>					
12	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	12		
13	Cobra Watertech 32mm cast brass gate valve (Code: 1001/125-32) parrallel F x F threaded inlets, non-rising spindle and guided wedge.	No	1		
14	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	4		
15	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1		
<u>SANITARY PLUMBING</u>					
Carried to Collection					
Section No. 7				R	
FD6					
Bill No. 10					
PLUMBING AND DRAINAGE					

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Section No. 7

FD6

Bill No. 10

PLUMBING AND DRAINAGE

COLLECTION

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FD6

Bill No. 10

PLUMBING AND DRAINAGE

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**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
MODIPE SECONDARY SCHOOL**

[illegible]

	<u>Plascon Woodcare Clear Varnish to exterior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Woodcare Clear Varnish (CVE 5) with an overcoating time of 16 hours and finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u>				
5	On doors	m2	7		
	<u>Plascon Professional Eggshell Enamel to interior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u>				
6	On doors	m2	21		
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FD6					
Bill No. 12					
PAINTWORK					

Section No. 7

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Bill No. 12

PAINTWORK

COLLECTION

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PAINTWORK

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5	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	28
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
6	Aprons to falls	m2	28
	<u>Smooth formwork to sides</u>		
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28
	<u>REINFORCEMENT (PROVISIONAL)</u>		
	<u>Fabric reinforcement</u>		
8	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m	28

Carried to Collection

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Section No. 7
FD6
Bill No. 13
CONCRETE APRONS

Section No. 7

FD6

Bill No. 13

CONCRETE APRONS

COLLECTION

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Section No. 7

FD6

Bill No. 13

CONCRETE APRONS

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.8</u>			
	<u>BILL NO.1</u>			
	<u>EXTERNAL RETICULATION</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep	m	253	
	<u>Extra over "Corflo" double walled radial ribbed uPVC pipes with integral moulded cuff joints and rubber seal rings for uPVC fittings</u>			
2	110mm Bend	No	21	
3	110mm Junction	No	11	
	<u>uPVC gulleys:</u>			
4	110mm Gulley not exceeding 500mm deep	No	6	
	<u>SUNDRIES</u>			
5	110mm "ABC" cleaning eye end of pipe	No	6	
	<u>EXTERNAL WATER RETICULATION</u>			
	<u>The following in trenches for pipes (pipes e/m)</u>			
6	Excavation not exceeding 2m deep	m3	177	
	Carried to Collection			
	Section No. 8			
	EXTERNAL WORKS			
	Bill No. 1			
	EXTERNAL RETICULATION			

R

Cobra Watertech

17	Cobra Watertech 22mm C x C cast brass heavy duty fullway gate valve with non-blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1003-125-22mm).	No	6
18	Cobra Watertech 15mm BSPT stub taper threaded FI x FI cast brass heavy duty fullway gate valve with non-blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1001-125-15mm).	No	6

TESTING

19	Provide all necessary apparatus water, etc for and test the whole of the Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect		Item
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Carried to Collection

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Section No. 8
EXTERNAL WORKS
Bill No. 1
EXTERNAL RETICULATION

Section No. 8

EXTERNAL WORKS

Bill No. 1

EXTERNAL RETICULATION

COLLECTION

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Section No. 8

EXTERNAL WORKS

Bill No. 1

EXTERNAL RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO.8</u>			
	<u>BILL NO. 2</u>			
	<u>PAVED WALKWAYS, ETC,</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u>			
	C - Site clearance			
	D - Earthworks			
	DM - Earthworks (Roads, subgrade)			
	M - Roads (General)			
	ME - Sub-base			
	MF - Base			
	MK - Kerb and Channeling			
	MM - Ancillary Roadworks			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	620	
	<u>Open face excavation in earth over sloping site</u>			
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m3	34	
	Carried to Collection			
	Section No. 8			
	EXTERNAL WORKS			
	Bill No. 2			
	PAVED WALKWAYS			

R

3	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	34		
4	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	51		
5	Rip and scarify ground level to a depth of 150mm and consolidate to 100% mod. AASHTO density (minimum CBR 3)	m2	338		
<u>Paving layers</u>					
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.					
Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit					
6	150mm Selected filling previously set aside compacted to 93% mod. AASHTO density	m3	51		
7	150mm Imported G5 material compacted to 93% mod. AASHTO density	m3	34		
<u>Prescribed density tests on filling</u>					
8	"Mod. AASHTO Density" test	No	15		

PAVING**Carried to Collection**

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Section No. 8
EXTERNAL WORKS
Bill No. 2
PAVED WALKWAYS

	<u>Interlocking paving</u>				
9	Bosun concrete Medium Urban paver colour Autumn-blend, size 200 x 150 x 60mm thick manufactured in accordance with SANS 1058:2012, laid in stretcher bond in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m2	338		
10	Weed-killing treatment of surface under paving	m2	338		
11	Precast concrete figure 7 kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs (PC Amount R150-00/m VAT excl.)	m	564		
12	Straight cutting units to fit edge restraints	m	564		
	<u>Sundries</u>				
13	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	564		
Carried to Collection					R
Section No. 8 EXTERNAL WORKS Bill No. 2 PAVED WALKWAYS					

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EXTERNAL WORKS

Bill No. 2

PAVED WALKWAYS

COLLECTION

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EXTERNAL WORKS

Bill No. 2

PAVED WALKWAYS

Item No	SANS Pay Ref	Unit	Quantity	Rate	Amount
	<u>SECTION NO.8</u>				
	<u>BILL NO.3</u>				
	<u>DRINKING FOUNTAIN, ETC.</u>				
	<u>EXCAVATIONS</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Holes	m3	1		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
2	Soft rock	m3	0.026		
3	Hard rock	m3	0.051		
	<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	0.4		
	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	3		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water		Item		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	Carried to Collection				
	Section No. 8				
	EXTERNAL WORKS				
	Bill No. 3				
	DRINKING FOUNTAINS				

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7	<u>15MPa/19mm concrete</u> Surface blinding under footings and bases <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>30MPa/19mm concrete</u>	m3	0.07	
8	Bases <u>REINFORCED CONCRETE</u> <u>30MPa/19mm concrete</u>	m3	0.3	
9	Drinking fountains <u>CONCRETE SUNDRIES</u> <u>Finishing top surfaces of concrete smooth with a steel trowel</u>	m3	0.2	
10	On top of bollards to form a 25mm high rounded concrete cap 300mm diameter <u>SMOOTH FORMWORK</u> <u>Special formwork to circular columns</u>	No	3	
11	300mm Diameter circular PVC columns 1000mm high buried 150mm deep as formwork to concrete drinking fountains (concrete e/m) <u>REINFORCEMENT</u> <u>Mild steel reinforcement to structural concrete work</u>	No	3	
12	8mm Diameter bars	t	0.02	
Carried to Collection				R
Section No. 8 EXTERNAL WORKS Bill No. 3 DRINKING FOUNTAINS				

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	<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	3		
	<u>Risk of collapse of excavations</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	17		
	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of all water other than subterranean water		Item		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
	<u>20MPa/19mm concrete</u>				
8	Base	m3	3		
<u>FENCING</u>					
	<u>Steel palisade fence</u>				
9	1800mm High Steel Palisade fence formed of 30 x 30 x 2mm mild steel angle iron palings spaced at 133mm centres with devil fork at the top and dove tail at the bottom, vertically welded on two 40 x 40 x 2mm horizontal rails, including steel stiffeners, welding, cutting, all necessary fixings lugs, bolts, etc.	m	30		
10	Steel posts 76 x 76 x 2mm, 2400mm long, with 150mm stiffener welded in and fixed into ground 600mm deep and cast into the concrete base	No	12		
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EXTERNAL WORKS					
Bill No. 4					
FENCING AROUND WATER TANK					

ACCESS GATES

11	Pedestrian gate size 1500 x 1800mm high including rectangular tubes, flat bars, steel angles, etc, (PC Amount R2 000-00 each VAT excl. supplied and delivered to site)	No	1
12	600mm Locking chain with 50mm links including 65mm padlock	No	1

PAINTING

Plascon Super Universal Enamel to exterior new mild steel. Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metalcare Mild Steel Primer (UC 501) with an overcoating time of 16 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

13	On rails, bars, pipes	m2	113
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Section No. 8

EXTERNAL WORKS

Bill No. 4

FENCING AROUND WATER TANK

Section No. 8

EXTERNAL WORKS

Bill No. 4

FENCING AROUND WATER TANK

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EXTERNAL WORKS

Bill No. 4

FENCING AROUND WATER TANK

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.8</u>			
	<u>BILL NO.6</u>			
	<u>SEPTIC TANKS, ETC.</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	31	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	49	
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
3	Holes	m3	13	
	<u>Extra over all excavations for carting away</u>			
4	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	44	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	48	
6	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding not exceeding 3m deep	m2	14	
	Carried to Collection			
	Section No. 8			
	EXTERNAL WORKS			
	Bill No. 6			
	SEPTIC TANK			

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	<u>Watertight cement plaster on brickwork</u>				
22	On walls	m2	57		
	<u>SCREEDS</u>				
	<u>Screeds on concrete</u>				
23	30mm Thick around distribution chambers etc.	m2	4		
	<u>PLUMBING AND DRAINAGE</u>				
	<u>uPVC pipes</u>				
24	110mm Pipes	m	1		
	<u>Extra over uPVC pipes for fittings</u>				
25	110mm Tee	No	2		
	<u>Cover, etc</u>				
26	600 x 600mm Type 2A cast iron single seal manhole cover and frame	No	4		
27	Lifting key for manhole cover	No	2		
	<u>PAINTWORK</u>				
	<u>Prepare surfaces and apply one layer "sikaguard 720" and three coats "sikaguard 63N" polyurethane finish</u>				
28	On walls	m2	60		
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SEPTIC TANK

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EXTERNAL WORKS

Bill No. 6

SEPTIC TANK

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Section No. 8

EXTERNAL WORKS

Bill No. 7

FRENCH DRAIN

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EXTERNAL WORKS
Bill No. 7
FRENCH DRAIN

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.9</u>			
	<u>BILL NO 1</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Refurbishment and equipping of existing borehole</u>			
1	Provide the sum of R200 000-00 (two hundred thousand rands) for the refurbishing and equipping of existing borehole by Specialists	Item		200 000.00
2	Allow for profit on above if required	Item		
3	Allow for giving every facility to Specialists as described	Item		
	<u>Elevated Tanks and Tank Stands</u>			
4	Provide the sum of R 125 000,00 (one hundred and twenty five thousand rands) for the supply and installation of 2 x 10000 elevated tanks and tank stands	Item		125 000.00
5	Allow for profit on above if required	Item		
6	Allow for giving every facility to Specialists as described	Item		
	<u>Pressure Pump Cage</u>			
7	Provide the sum of R10 000,00 (ten thousand rands) for the supply and installation of Pressure Pump Cage	Item		10 000.00
8	Allow for profit on above if required	Item		
9	Allow for giving every facility to Specialists as described	Item		
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	PROVISIONAL SUMS			
	Bill No. 1			
	PROVISIONAL SUMS			

Community Liaison Officer

10	Provide the sum of R15 000,00 (fifteen thousand rands) for the CLO	Item	15 000.00
11	Allow for profit on above if required	Item	
12	Allow for giving every facility to Specialists as described	Item	
<u>Project Steering Committee</u>			
13	Provide the sum of R7 500,00 (seven thousand five hundred rands) for the Project Steering Committee	Item	7 500.00
14	Allow for profit on above if required	Item	
15	Allow for giving every facility to Specialists as described	Item	

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Section No. 9
PROVISIONAL SUMS
Bill No. 1
PROVISIONAL SUMS

Section No. 9

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

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PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

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3	ALTERATIONS	73		
4	MD1	119		
5	MD2	164		
6	FD3	209		
7	FD6	254		
8	EXTERNAL WORKS	280		
9	PROVISIONAL SUMS	283		
	Sub Total 1 - BUILDING COSTS		R	
	<u>CONTINGENCY SUM</u>			
	Allow 10% Contingencies for building works, to be used as directed by the Principal Agent and deducted in whole or in part if not required	%		
	Sub total BUILDINGS (VAT excl.)		R	
	Value Added Tax		R	
	Sub Total (VAT INCL.) CARRIED TO TENDER FORM		R	
	Carried to Form of Tender		R	