

Item No	Quantity	Rate	Amount
<u>SECTION NO 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described			
The Preliminaries are for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities			
Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof			
These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents			
Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"			
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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:.....

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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:.....

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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

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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:.....			
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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:.....

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21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p>	Item		
22	<p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Contractor's Domestic Sub-Contractors (Clause 23)</p> <p>F:..... V:..... T:.....</p>	Item		
<u>Completion (A24-A30)</u>				
24	<p>Practical completion (clause 24)</p> <p>F:..... V:..... T:.....</p>	Item		
25	<p>Works completion (clause 25)</p> <p>F:..... V:..... T:.....</p>	Item		
26	<p>Final completion (clause 26)</p> <p>F:..... V:..... T:.....</p>	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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**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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 **calender 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:.....

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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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12.1.8 Previous work - defects (B3.5)

12.1.9 Services - known (B3.7)

12.1.10 Protection of trees (B3.9)

All trees should be protected and only on instruction of the Principal Agent may any trees be removed

12.1.12 Enclosure of the works (B6.2)

12.1.11 Inspection of adjoining properties (B3.11)

12.1.13 Offices (B6.4.3)

Specific requirements:

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

12.1.14 Main notice board (B6.5)

YES

12.1.15 Subcontractors notice board (B6.6)

A notice board is required

Yes

12.1.16 Water (B7.2)

Alternative Selected: A

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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:.....	Item			
	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				
103	Labour record F:..... V:..... T:.....	Item			
	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				
104	Plant record F:..... V:..... T:.....	Item			
	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				
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% alchohol), 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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135 HIV/AIDS Awareness

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

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 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

Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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PRELIMINARIES AND GENERAL

Bill No. 1

PRELIMINARIES & GENERAL

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			
	Carried to Collection		R	
	Section No. 2 DEMOLITIONS Bill No. 1 ALTERATIONS			

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 R75 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

75 000.00

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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 ETCSite 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, ETCExcavation 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 | 4 |

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	49		
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	49		
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		
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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	8		
----	--	------	---	--	--

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	7		
----	---	----	---	--	--

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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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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	20
---	---	----	----

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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	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		
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	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		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	3		
	<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>				
15	110mm Wide sill set level and slightly projecting	m	4		
16	220mm Wide sill set sloping and slightly protecting outside	m	4		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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

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****R**

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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	<u>SECTION NO.3</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	
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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	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	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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13	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	No	1		
	<u>Stainless steel:</u>				
14	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	3		
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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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	<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	
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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, filments 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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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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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.

1	On fascias and barge boards	m2	8
---	-----------------------------	----	---

ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	5
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3	On windows with burglar bars	m2	5
---	------------------------------	----	---

4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	7
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ON WOOD

Carried to Collection

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MD2
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PAINTWORK

	<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 (VWP 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 (VWP 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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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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Bill No. 13
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 ETCSite clearance

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 58 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 58 |
|---|---|----|----|

EXCAVATION, FILLING, ETCExcavation in earth not exceeding 2m deep

- | | | | |
|---|----------|----|---|
| 3 | Trenches | m3 | 9 |
|---|----------|----|---|

Extra over trench and hole excavations in earth for excavation in

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

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M3
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FOUNDATIONS

	<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	9		
	<u>Risk of collapse of excavations</u>				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	25		
	<u>Keeping excavations free of water</u>				
8	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
9	Under floors, steps, paving, etc	m3	3		
10	Backfilling to trenches, holes, etc	m3	8		
	<u>Compaction of surfaces</u>				
11	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	17		
	<u>Prescribed density tests on filling</u>				
12	"Modified AASHTO Density"	No	6		
	<u>SOIL POISONING</u>				
	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
13	To bottoms and sides of trenches, etc.	m2	37		
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FOUNDATIONS					

R

TEST CUBES

20	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

21	One brick walls	m2	10		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

22	150mm Wide reinforcement built in horizontally	m	5		
----	--	---	---	--	--

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

23	Extra over brickwork for face brickwork	m2	6		
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M3
Bill No. 1
FOUNDATIONS

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FOUNDATIONS

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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"

REINFORCED CONCRETE

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CONCRETE, FORMWORK & REINFORCEMENT

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CONCRETE, FORMWORK & REINFORCEMENT

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CONCRETE, FORMWORK & REINFORCEMENT

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Brickwork of NFP bricks in class II mortar

1	Half brick walls in beamfilling	m2	3
2	One brick walls	m2	48

BRICKWORK SUNDRIESBrickwork reinforcement

3	75mm Wide reinforcement built in horizontally	m	114
4	150mm Wide reinforcement built in horizontally	m	206

Galvanised wire ties etc

5	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	12
---	---	----	----

Turning pieces

6	115mm Wide turning piece to lintels etc	m	10
7	230mm Wide turning pieces to lintels etc	m	1

Holes

8	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	8
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	3

FACE BRICKWORK

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

10	Extra over brickwork for face brickwork	m2	102
11	Half brick wall faced on both sides	m2	16

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MASONRY

12	Extra over brickwork for brick-on-edge header course lintel	m	4		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	8		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	3		
	<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>				
15	110mm Wide sill set level and slightly projecting	m	4		
16	220mm Wide sill set sloping and slightly protecting outside	m	4		
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MASONRY

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MASONRY

Item No		Quantity	Rate	Amount
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	<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	69	
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	WATERPROOFING			
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	<u>SECTION NO.4</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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	41
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	36

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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	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	30

Sundries

4	Two coats creosote on sawn timbers	m ²	3
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	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	12

DOORS, ETC

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Section No. 4

M3

Bill No. 6

CARPENTRY AND JOINERY

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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Section No. 4

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CARPENTRY AND JOINERY

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Bill No. 6

CARPENTRY AND JOINERY

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	<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	1	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	1	
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	1	
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	IRONMONGERY			

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IRONMONGERY

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IRONMONGERY

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Bill No. 8

METALWORK

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METALWORK

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	<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	2	
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	PLUMBING AND DRAINAGE			

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8	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	3		
9	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	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	2		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
11	"Cobra Ref. 365/40" CP bottle trap	No	2		
12	"Cobra Ref. 365/50" CP bottle trap	No	6		
<u>TAPS, VALVES, ETC</u>					
13	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	5		
14	Cobra Watertech chrome plated 15mm outlet x 215mm long with 27mm offset urinal flush pipe (Code: FJT5.5).	No	6		
15	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	2		
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PLUMBING AND DRAINAGE					

16	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	6		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
17	50mm Pipes	m	28		
18	110mm Pipes	m	10		
19	50mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
<u>Extra over uPVC pipes for fittings</u>					
20	50mm BSP adaptor	No	8		
21	50mm Bend	No	6		
22	50mm Access bend	No	8		
23	50mm Access junction	No	1		
24	50mm Junction	No	5		
25	110mm Bend	No	5		
26	110mm Junction	No	3		
27	110mm Pan connector	No	3		
28	110mm "GI Two-way" vent valve	No	1		
<u>WATER SUPPLIES</u>					
<u>"Polylink" polypropylene pipes</u>					
29	15mm Pipes	m	18		
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PLUMBING AND DRAINAGE					

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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Section No. 4

M3

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PLUMBING AND DRAINAGE

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M3

Bill No. 10

PLUMBING AND DRAINAGE

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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.

1	On fascias and barge boards	m2	9
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

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

Carried to Collection

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M3
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PAINTWORK

	<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 (VWP 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	4		
	<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 (VWP 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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Section No. 4

M3

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PAINTWORK

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M3

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PAINTWORK

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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	25	
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
6	Aprons to falls	m2	25	
	<u>Smooth formwork to sides</u>			
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25	
	<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	25	
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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 ETCSite 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, ETCExcavation 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 | 2 |
| 5 | Hard rock | m3 | 6 |

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14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	21		
	<u>Soil insecticide</u>				
15	To bottoms and sides of trenches etc	m2	49		
16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	21		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
17	Surface blinding under footings and bases	m3	1		
	<u>25MPa/19mm concrete</u>				
18	Strip footings	m3	4		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
19	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		
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TEST CUBES

20	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

21	One brick walls	m2	14		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

22	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

23	Extra over brickwork for face brickwork	m2	7		
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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"

REINFORCED CONCRETE

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CONCRETE, FORMWORK & REINFORCEMENT

	<u>30MPa/19mm concrete</u>				
1	Surface beds cast in panels on waterproofing.	m3	2		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
2	Surface beds, slabs, etc	m2	21		
	<u>TEST CUBES</u>				
3	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		
	<u>DIVIDING STRIPS, ETC.</u>				
4	6 x 38mm Angle iron step guard cast into concrete with 3 x 6mm anchors	m	1		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
5	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	21		
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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	53		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	185		
4	150mm Wide reinforcement built in horizontally	m	231		
	<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	14		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	17		
7	230mm Wide turning pieces to lintels etc	m	1		
	<u>Holes</u>				
8	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	2		
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	6		
	<u>FACE BRICKWORK</u>				
	Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
10	Extra over brickwork for face brickwork	m2	114		
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	2		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	6		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
15	110mm Wide sill set level and slightly projecting	m	6		
16	220mm Wide sill set sloping and slightly protecting outside	m	6		
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MASONRY

Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</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	8	
	<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	21	
	<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	117	
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	WATERPROOFING			
			R	

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	<u>SECTION NO.5</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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	48
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	43

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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	35

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	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	14
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	12

DOORS, ETC

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Bill No. 6

CARPENTRY AND JOINERY

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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	<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	1	
	<u>LOCKS</u>			
	<u>"ASSA ABLOY" or similar approved</u>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.	No	1	
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	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
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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

4	Window type NE1, size 533 x 654mm high	No	6
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5	Window type NE7, size 1022 x 654mm high	No	3
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METALWORK

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	<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	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	6		
<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>"Marley"</u>					
11	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2		
<u>TAPS, VALVES, ETC</u>					
12	Cobra Watertech 15mm MI x FI x 75mm long extension piece with sliding wall flange (Code: 059-15).	No	4		
13	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	10		
14	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>					
15	50mm Pipes	m	20		
16	110mm Pipes	m	10		
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PLUMBING AND DRAINAGE					

17	50mm Pipes laid in and including trenches not exceeding 1m deep	m	35		
	<u>Extra over uPVC pipes for fittings</u>				
18	50mm BSP adaptor	No	2		
19	50mm Bend	No	8		
20	50mm Access bend	No	2		
21	50mm Access junction	No	1		
22	50mm Junction	No	5		
23	110mm Bend	No	8		
24	110mm Junction	No	6		
25	110mm Pan connector	No	6		
26	110mm Access bend	No	1		
27	110mm Double junction	No	1		
28	110mm "GI Two-way" vent valve	No	1		
	<u>WATER SUPPLIES</u>				
	<u>"Polylink" polypropylene pipes</u>				
29	15mm Pipes	m	35		
	<u>Extra over "Polylink" polypropylene pipes for fittings</u>				
30	15mm Fittings	No	4		
	<u>Class 0 copper pipes</u>				
31	15mm Pipes	m	23		
32	22mm Pipes	m	19		
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	PLUMBING AND DRAINAGE				

Extra over class 0 copper pipes for capillary fittings

33	15mm Fittings	No	24
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34	22mm Fittings	No	8
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Galvanised steel pipes:

35	20mm Pipes chased into brick walls	m	2
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Extra over galvanised steel pipes for steel fittings:

36	20mm Fittings	No	6
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TESTING

37	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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PLUMBING AND DRAINAGE

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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.

1	On fascias and barge boards	m2	9
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	7
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3	On windows with burglar bars	m2	8
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4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	3
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ON WOOD

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PAINTWORK

	<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 (VWP 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	4		
	<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 (VWP 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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PAINTWORK					

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PAINTWORK

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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		

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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 | 73 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 73 |
|---|---|----|----|

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 | 2 |
| 5 | Hard rock | m3 | 7 |

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FOUNDATIONS

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	53		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	24		
	<u>Soil insecticide</u>				
16	To bottoms and sides of trenches etc	m2	53		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	24		
<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	25		
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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	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		
----	---	----	---	--	--

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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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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	24
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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	4		
2	One brick walls	m2	68		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	163		
4	150mm Wide reinforcement built in horizontally	m	295		
	<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	17		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	14		
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	6		
	<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	144		
11	Half brick wall faced on both sides	m2	22		
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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	4		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	6		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
15	110mm Wide sill set level and slightly projecting	m	5		
16	220mm Wide sill set sloping and slightly protecting outside	m	5		
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MASONRY

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	<u>SECTION NO.6</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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	55
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	49

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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	15
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	35
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	41

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	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	16
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	12

DOORS, ETC

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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>SECTION NO.6</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	
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	IRONMONGERY			

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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

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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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	6
6	Window type NE7, size 1022 x 654mm high	No	2

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METALWORK

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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	8	
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	
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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, filments 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	5		
<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	10		
13	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	3		
14	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>					
<u>uPVC pipes</u>					
15	50mm Pipes	m	24		
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Extra over class 0 copper pipes for capillary fittings

33	15mm Fittings	No	32
34	22mm Fittings	No	5

TESTING

35	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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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.

1	On fascias and barge boards	m2	10
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	8
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3	On windows with burglar bars	m2	7
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4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	7
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ON WOOD

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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 (VWP 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 (VWP 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	18		
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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	30		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	30		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30		
	<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	30		

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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 | 87 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 87 |
|---|---|----|----|

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 | 3 |
| 5 | Hard rock | m3 | 7 |

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
14	To bottoms and sides of trenches, etc.	m2	62
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	31
	<u>Soil insecticide</u>		
16	To bottoms and sides of trenches etc	m2	62
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	31

CONCRETE, FORMWORK AND REINFORCEMENT

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

	<u>15MPa/19mm concrete</u>		
18	Surface blinding under footings and bases	m3	1
	<u>25MPa/19mm concrete</u>		
19	Strip footings	m3	5

REINFORCEMENT

	<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	30

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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	9		
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FOUNDATIONS

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<u>SECTION NO.7</u>			
<u>BILL NO.2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
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CONCRETE, FORMWORK & REINFORCEMENT			

"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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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	31
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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	5		
2	One brick walls	m2	80		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	230		
4	150mm Wide reinforcement built in horizontally	m	342		
	<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	21		
	<u>Turning pieces</u>				
6	115mm Wide turning piece to lintels etc	m	13		
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	6		
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	169		
11	Half brick wall faced on both sides	m2	44		
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	MASONRY				

12	Extra over brickwork for brick-on-edge header course lintel	m	8		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	6		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	2		
	<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>				
15	110mm Wide sill set level and slightly projecting	m	6		
16	220mm Wide sill set sloping and slightly protecting outside	m	6		
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Bill No. 3

MASONRY

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	<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	11	
	<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	31	
	<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	71	
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	WATERPROOFING			
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	<u>SECTION NO.7</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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	69
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	62

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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	19
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	45
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	51

Sundries

4	Two coats creosote on sawn timbers	m2	6
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	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	12

DOORS, ETC

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Bill No. 6

CARPENTRY AND JOINERY

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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CARPENTRY AND JOINERY

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Bill No. 6

CARPENTRY AND JOINERY

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	<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	
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	IRONMONGERY			

4	UNION stainless steel indicator bolts (code: SS8023SS) with Stainless Steel finish.	No	7
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	2
<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
12	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	2

LETTERS, NAMEPLATES, ETC

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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
14	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	No	1
<u>Stainless steel:</u>			
15	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	6

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IRONMONGERY

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	8
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	10	
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	6	
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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, filments 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	7		
<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	6		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
11	"Cobra Ref. 365/40" CP bottle trap	No	6		
<u>TAPS, VALVES, ETC</u>					
12	Cobra Watertech 15mm MI x FI x 75mm long extension piece with sliding wall flange (Code: 059-15).	No	14		
13	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	14		
14	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	5		
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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**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

	<u>uPVC pipes</u>			
16	50mm Pipes	m	31	
17	110mm Pipes	m	15	
18	50mm Pipes laid in and including trenches not exceeding 1m deep	m	35	
	<u>Extra over uPVC pipes for fittings</u>			
19	50mm BSP adaptor	No	2	
20	50mm Bend	No	9	
21	50mm Access bend	No	2	
22	50mm Access junction	No	1	
23	50mm Junction	No	10	
24	110mm Bend	No	11	
25	110mm Junction	No	8	
26	110mm Pan connector	No	8	
27	110mm Access bend	No	1	
28	110mm Double junction	No	1	
29	110mm Access junction	No	2	
30	110mm "GI Two-way" vent valve	No	1	
	<u>WATER SUPPLIES</u>			
	<u>"Polylink" polypropylene pipes</u>			
31	15mm Pipes	m	28	
	<u>Extra over "Polylink" polypropylene pipes for fittings</u>			
32	15mm Fittings	No	5	
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Class 0 copper pipes

33	15mm Pipes	m	29
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34	22mm Pipes	m	15
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Extra over class 0 copper pipes for capillary fittings

35	15mm Fittings	No	30
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36	22mm Fittings	No	6
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TESTING

37	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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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.

1	On fascias and barge boards	m2	12
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	3
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3	On windows with burglar bars	m2	8
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4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	7
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ON WOOD

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PAINTWORK

	<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 (VWP 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 (VWP 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	25		
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PAINTWORK					

Section No. 7

FD7

Bill No. 12

PAINTWORK

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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	34		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	34		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	34		
	<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	34		

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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 ETCSite clearance

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 93 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 93 |
|---|---|----|----|

EXCAVATION, FILLING, ETCExcavation in earth not exceeding 2m deep

- | | | | |
|---|----------|----|----|
| 3 | Trenches | m3 | 10 |
|---|----------|----|----|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 6 |

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FOUNDATIONS

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	45		
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	45		
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	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		
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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	6		
----	--	---	---	--	--

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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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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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	20
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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	57		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	59		
4	150mm Wide reinforcement built in horizontally	m	247		
	<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	5		
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	119		
11	Half brick wall faced on both sides	m2	5		
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	MASONRY				

12	Extra over brickwork for brick-on-edge header course lintel	m	6		
13	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	5		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	2		
	<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>				
15	110mm Wide sill set level and slightly projecting	m	4		
16	220mm Wide sill set sloping and slightly protecting outside	m	4		
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MASONRY

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	<u>SECTION NO.8</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"</u> <u>embossed damp proof course</u>			
1	In walls	m2	6	
	<u>One layer of 250 micron "Consol Plastic USB Green"</u> <u>waterproof sheeting sealed at laps with "Gunplas</u> <u>Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	20	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>"Secomastic" non setting mastic sealant applied cold</u> <u>with a hand pressure caulking gun and leave perfectly</u> <u>watertight</u>			
3	Around steel windows and door frames	m	62	
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	WATERPROOFING			
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	<u>SECTION NO.8</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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	41
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	37

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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	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	30

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	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	6
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	12

DOORS, ETC

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CARPENTRY AND JOINERY

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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	<u>SECTION NO.8</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	
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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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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	2

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METALWORK

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METALWORK

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	<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	Junior wash hand basin bolted to wall including all fittings and necessary pipework	No	3	
8	Junior WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	2	
	Carried to Collection			
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	PLUMBING AND DRAINAGE			

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9	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>					
10	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>					
11	"Cobra Ref. 365/40" CP bottle trap	No	3		
12	"Cobra Ref. 365/50" CP bottle trap	No	2		
<u>TAPS, VALVES, ETC</u>					
13	Cobra Watertech 15mm MI x FI x 75mm long extension piece with sliding wall flange (Code: 059-15).	No	6		
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	2		
16	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	2		
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PLUMBING AND DRAINAGE					

17	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		
18	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>					
19	50mm Pipes	m	18		
20	110mm Pipes	m	9		
<u>Extra over uPVC pipes for fittings</u>					
21	50mm BSP adaptor	No	3		
22	50mm Bend	No	5		
23	50mm Access bend	No	3		
24	50mm Access junction	No	1		
25	50mm Junction	No	4		
26	110mm Bend	No	4		
27	110mm Junction	No	2		
28	110mm Pan connector	No	2		
29	110mm "GI Two-way" vent valve	No	1		
<u>WATER SUPPLIES</u>					
<u>"Polylink" polypropylene pipes</u>					
30	15mm Pipes	m	15		
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**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
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PLUMBING AND DRAINAGE

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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.

1	On fascias and barge boards	m2	7
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	4
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3	On windows with burglar bars	m2	5
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4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	7
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ON WOOD

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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 (VWP 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 (VWP 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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PAINTWORK

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

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	m ²	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

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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 ETCSite clearance

- | | | | |
|---|--|----|----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 84 |
|---|--|----|----|

Earthworks

- | | | | |
|---|---|----|----|
| 2 | Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density | m2 | 84 |
|---|---|----|----|

EXCAVATION, FILLING, ETCExcavation in earth not exceeding 2m deep

- | | | | |
|---|----------|----|---|
| 3 | Trenches | m3 | 9 |
|---|----------|----|---|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 6 |

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FOUNDATIONS

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	40		
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	13		
	<u>Soil insecticide</u>				
16	To bottoms and sides of trenches etc	m2	40		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	13		
<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	19		
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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	11		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

23	150mm Wide reinforcement built in horizontally	m	6		
----	--	---	---	--	--

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	5		
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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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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	13
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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	2		
2	One brick walls	m2	51		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
3	75mm Wide reinforcement built in horizontally	m	62		
4	150mm Wide reinforcement built in horizontally	m	224		
	<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	10		
	<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	2		
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	107		
11	Half brick wall faced on both sides	m2	6		
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	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	2		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	3		
	<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>				
15	110mm Wide sill set level and slightly projecting	m	4		
16	220mm Wide sill set sloping and slightly protecting outside	m	4		
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MASONRY

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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	34
	<u>Sundries</u>		
2	12" Thermal resistance sisalation laid on purlins	m2	31

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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	9
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	21
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	25

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	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	10
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	12

DOORS, ETC

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CARPENTRY AND JOINERY

**LDOE2022/23 WATER & SANITATION INFRASTRUCTURE
LEAKHALE PRIMARY SCHOOL**

[illegible]

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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	
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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	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	3
12	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	1

LETTERS, NAMEPLATES, ETC

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IRONMONGERY

"ASSA ABLOY" or similar approved

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

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 2

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IRONMONGERY

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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	3
6	Window type NE7, size 1022 x 654mm high	No	2

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METALWORK

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	<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	5	
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	Junior wash hand basin bolted to wall including all fittings and necessary pipework	No	2	
8	Junior WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	3	
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	PLUMBING AND DRAINAGE			

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WASTE UNIONS ETC"Cobra Watertech"

- | | | | |
|---|---|----|---|
| 9 | Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug. | No | 2 |
|---|---|----|---|

TRAPS ETC"Cobra Watertech"

- | | | | |
|----|------------------------------------|----|---|
| 10 | "Cobra Ref. 365/40" CP bottle trap | No | 2 |
|----|------------------------------------|----|---|

TAPS, VALVES, ETC

- | | | | |
|----|---|----|---|
| 11 | Cobra Watertech 15mm MI x FI x 75mm long extension piece with sliding wall flange (Code: 059-15). | No | 2 |
| 12 | Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350). | No | 5 |
| 13 | Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005. | No | 1 |
| 14 | 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 |

SANITARY PLUMBINGuPVC pipes

- | | | | |
|----|-------------|---|----|
| 15 | 50mm Pipes | m | 15 |
| 16 | 110mm Pipes | m | 10 |

Extra over uPVC pipes for fittings

- | | | | |
|----|------------------|----|---|
| 17 | 50mm BSP adaptor | No | 1 |
|----|------------------|----|---|

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PLUMBING AND DRAINAGE

18	50mm Bend	No	4		
19	50mm Access bend	No	1		
20	50mm Junction	No	3		
21	110mm Bend	No	6		
22	110mm Junction	No	3		
23	110mm Pan connector	No	3		
24	110mm "GI Two-way" vent valve	No	1		
<u>WATER SUPPLIES</u>					
<u>"Polylink" polypropylene pipes</u>					
25	15mm Pipes	m	15		
<u>Extra over "Polylink" polypropylene pipes for fittings</u>					
26	15mm Fittings	No	3		
<u>Class 0 copper pipes</u>					
27	15mm Pipes	m	17		
28	22mm Pipes	m	7		
<u>Extra over class 0 copper pipes for capillary fittings</u>					
29	15mm Fittings	No	16		
30	22mm Fittings	No	3		
<u>TESTING</u>					
31	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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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.

1	On fascias and barge boards	m2	8
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	5
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3	On windows with burglar bars	m2	5
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4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	7
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ON WOOD

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PAINTWORK

	<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 (VWP 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 (VWP 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	21		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	21		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	21		
	<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	21		
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CONCRETE APRONS					

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CONCRETE APRONS

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GRFD2

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CONCRETE APRONS

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<u>SECTION NO.10</u>			
<u>BILL NO.1</u>			
<u>FOUNDATIONS</u>			
<u>EARTHWORKS</u>			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			
<u>Nature of ground</u>			
A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
<u>Carting away of excavated material</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
Carried to Collection			R
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FOUNDATIONS			

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 ETCSite 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, ETCExcavation in earth not exceeding 2m deep

- | | | | |
|---|----------|----|----|
| 3 | Trenches | m3 | 10 |
|---|----------|----|----|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|---|
| 4 | Soft rock | m3 | 1 |
| 5 | Hard rock | m3 | 6 |

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	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
14	To bottoms and sides of trenches, etc.	m2	44		
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	44		
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	12		
----	-----------------	----	----	--	--

BRICKWORK SUNDRIESBrickwork reinforcement

23	150mm Wide reinforcement built in horizontally	m	6		
----	--	---	---	--	--

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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<u>BILL NO.2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
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CONCRETE, FORMWORK & REINFORCEMENT			

"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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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	17
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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	10		
9	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	4		
	<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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	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	10		
14	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm 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>				
15	110mm Wide sill set level and slightly projecting	m	3		
16	220mm Wide sill set sloping and slightly protecting outside	m	3		
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MASONRY

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MASONRY

Item No		Quantity	Rate	Amount
	<u>SECTION NO.10</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	7	
	<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	75	
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	WATERPROOFING			
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	<u>SECTION NO.10</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
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	ROOF COVERINGS, ETC			

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

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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	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

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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>SECTION NO.10</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	
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	IRONMONGERY			

4	UNION stainless steel indicator bolts (code: SS8023SS) with Stainless Steel finish.	No	3
5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.	Pairs	1.0

SUNDRIES"ASSA ABLOY" or similar approved

6	UNION aluminium door stop (code: AL8730AS) with Anodised Silver finish.	No	5
---	---	----	---

Stainless steel kick/push plates

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
---	---	----	---

"Vaal Paragon" or similar approved

9	32mm Type 9 back grab rail 800mm long plugged	No	1
---	---	----	---

10	32mm Type 8 side grab rail 900mm girth plugged	No	1
----	--	----	---

BATHROOM FITTINGS"Kimberley-Clark or similar approved"

11	SQ2 code 405607B white none lockable toilet roll holder plugged to wall	No	4
----	---	----	---

LETTERS, NAMEPLATES, ETC"ASSA ABLOY" or similar approved

12	ASSA ABLOY Aluminium engraved plate E10, size 152 x 152mm (Code: AL5066-06ASE10). (Male)	No	1
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13	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	No	1		
	<u>Stainless steel:</u>				
14	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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METALWORK

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METALWORK

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	<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			

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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, filments 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	3		
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	6		
<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	4		
<u>TRAPS ETC</u>					
<u>"Cobra Watertech"</u>					
12	"Cobra Ref. 365/40" CP bottle trap	No	4		
13	"Cobra Ref. 365/50" CP bottle trap	No	6		
<u>TAPS, VALVES, ETC</u>					
14	Cobra Watertech 15mm MI x FI x 75mm long extension piece with sliding wall flange (Code: 059-15).	No	7		
15	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	8		
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16	Cobra Watertech chrome plated 15mm outlet x 215mm long with 27mm offset urinal flush pipe (Code: FJT5.5).	No	6		
17	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.	No	3		
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	6		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
20	50mm Pipes	m	25		
21	110mm Pipes	m	10		
<u>Extra over uPVC pipes for fittings</u>					
22	50mm BSP adaptor	No	8		
23	50mm Bend	No	8		
24	50mm Access bend	No	8		
25	50mm Access junction	No	2		
26	50mm Junction	No	7		
27	110mm Bend	No	6		
28	110mm Junction	No	4		
29	110mm Pan connector	No	4		
30	110mm Access bend	No	1		
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PLUMBING AND DRAINAGE

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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.

1	On fascias and barge boards	m2	8
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ON METAL

Plascon Velvago Satin to interior 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 Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

2	On door frames	m2	6
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3	On windows with burglar bars	m2	4
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4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	7
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ON WOOD

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MD3
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PAINTWORK

	<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 (VWP 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 (VWP 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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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	21		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	21		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	21		
	<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	21		

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MD3
Bill No. 13
CONCRETE APRONS

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CONCRETE APRONS

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MD3

Bill No. 13

CONCRETE APRONS

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.11</u>			
	<u>BILL NO.1</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep	m	361	
	<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	25	
3	110mm Junction	No	13	
	<u>uPVC gulleys:</u>			
4	110mm Gulley not exceeding 500mm deep	No	11	
	<u>SUNDRIES</u>			
5	110mm "ABC" cleaning eye end of pipe	No	8	
	<u>WATER SUPPLIES</u>			
	<u>The following in trenches for pipes (pipes e/m)</u>			
6	Excavation not exceeding 2m deep	m3	156	
7	<u>Extra over trench and hole excavations in earth for excavation in soft rock</u>	m3	23	
	Carried to Collection			
	Section No. 11			
	EXTERNAL WORKS			
	Bill No. 1			
	PLUMBING AND DRAINAGE			

R

8	Extra over trench and hole excavations in earth for excavation in hard rock	m3	47
9	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	520
10	Backfilling to trenches, holes, with materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density	m3	156
	<u>Class 12 uPVC pipes with solvent welded joints</u>		
11	22mm Pipes laid in and including trenches not exceeding 1m deep incl. all excavations, backfilling, etc.	m	89
	<u>Extra over class 12 uPVC pipes for fittings with solvent welded joints</u>		
12	22mm Bend	No	15
13	22mm Junction	No	8
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>		
14	32mm Pipes laid in and including trenches not exceeding 1m deep	m	171
	<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>		
15	32mm Bend	No	21
16	32mm Tee	No	15
	<u>TAPS, VALVES, ETC</u>		
	<u>Cobra Watertech</u>		
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	8

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Section No. 11
EXTERNAL WORKS
Bill No. 1
PLUMBING AND DRAINAGE

- 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

8

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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Section No. 11
EXTERNAL WORKS
Bill No. 1
PLUMBING AND DRAINAGE

Section No. 11

EXTERNAL WORKS

Bill No. 1

PLUMBING AND DRAINAGE

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EXTERNAL WORKS

Bill No. 1

PLUMBING AND DRAINAGE

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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	51
4	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	76
5	Rip and scarify ground level to a depth of 150mm and consolidate to 100% mod. AASHTO density (minimum CBR 3)	m2	505
<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	76
7	150mm Imported G5 material compacted to 93% mod. AASHTO density	m3	51
<u>Prescribed density tests on filling</u>			
8	"Mod. AASHTO Density" test	No	15

PAVING

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Section No. 11
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	505	
10	Weed-killing treatment of surface under paving	m2	505	
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	761	
12	Straight cutting units to fit edge restraints	m	761	
	<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	761	
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EXTERNAL WORKS

Bill No. 2

PAVED WALKWAYS

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EXTERNAL WORKS

Bill No. 2

PAVED WALKWAYS

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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES30MPa/19mm concrete

8	Bases	m3	0.2
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REINFORCED CONCRETE30MPa/19mm concrete

9	Drinking fountains	m3	0.1
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CONCRETE SUNDRIESFinishing top surfaces of concrete smooth with a steel trowel

10	On top of bollards to form a 25mm high rounded concrete cap 300mm diameter	No	2
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SMOOTH FORMWORKSpecial formwork to circular columns

11	300mm Diameter circular PVC columns 1000mm high buried 150mm deep as formwork to concrete drinking fountains (concrete e/m)	No	2
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REINFORCEMENTMild steel reinforcement to structural concrete work

12	8mm Diameter bars	t	0.02
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PLUMBING AND DRAINAGE**WATER SUPPLIES**Class 0 copper pipes

13	15mm Pipes	m	2.70
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Section No. 11
EXTERNAL WORKS
Bill No. 3
DRINKING FOUNTAIN ETC.

Extra over class 0 copper pipes for capillary fittings

14	15mm Fittings	No	2
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TAPS, VALVES, ETC

15	Cobra Watertech 15mm chrome plated metered bibtap (Code: KM2-200) with flow straightner and non-hold open feature, manufactured in accordance with SANS 1808-9:2001.	No	2
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16	Cobra Watertech 15mm cast brass gate valve (Code: 1001-125-15) parrallel F x F threaded inlets, non-rising spindle and guided wedge.	No	2
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Bill No. 3
DRINKING FOUNTAIN ETC.

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EXTERNAL WORKS

Bill No. 3

DRINKING FOUNTAIN ETC.

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EXTERNAL WORKS

Bill No. 3

DRINKING FOUNTAIN ETC.

Item No		Quantity	Rate	Amount
	<u>SECTION NO.11</u>			
	<u>BILL NO.4</u>			
	<u>FENCING AROUND WATER TANK, ETC.</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>EXCAVATIONS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Clearing fence line</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	135	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	4	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	0.4	
4	Hard rock	m3	0.2	
	Carried to Collection			
	Section No. 11			
	EXTERNAL WORKS			
	Bill No. 4			
	FENCING AROUND WATER TANK			

R

	<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	4		
	<u>Risk of collapse of excavations</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	24		
	<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	4		
	<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	45		
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	17		
	Carried to Collection			R	
	Section No. 11				
	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	167
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Section No. 11

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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EXTERNAL WORKS

Bill No. 4

FENCING AROUND WATER TANK

Item No		Quantity	Rate	Amount
	<u>SECTION NO.11</u>			
	<u>BILL NO.5</u>			
	<u>FENCING</u>			
	<u>EXCAVATIONS</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	90	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	7	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1	
4	Hard rock	m3	0.4	
	<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	7	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	49	
	Carried to Collection			
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	EXTERNAL WORKS			
	Bill No. 5			
	FENCING AROUND GRADE R TOILETS, ETC			

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	<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	7		
	<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	10		
	<u>ACCESS GATES</u>				
	<u>"Steel gates"</u>				
11	Pedestrian gate 1500 x 1800mm high to suit diamond mesh fencing covered with galvanised wire diamond mesh fixed to framing and cross brace including sliding lock (PC Amount R2000-00 each VAT excl. supplied and delivered to site)	No	1		
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	EXTERNAL WORKS				
	Bill No. 5				
	FENCING AROUND GRADE R TOILETS, ETC				

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EXTERNAL WORKS

Bill No. 5

FENCING AROUND GRADE R TOILETS, ETC

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Section No. 11

EXTERNAL WORKS

Bill No. 5

FENCING AROUND GRADE R TOILETS, ETC

Item No		Quantity	Rate	Amount
	<u>SECTION NO.11</u>			
	<u>BILL NO.6</u>			
	<u>FENCING AROUND WATER TANK, ETC.</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Model Preambles for Trades (2017 Edition)" and Supplementary preambles as specified in the Trades			
	<u>EXCAVATIONS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Clearing fence line</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	2 273	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	55	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	5	
4	Hard rock	m3	3	
	Carried to Collection			
	Section No. 11			
	EXTERNAL WORKS			
	Bill No. 6			
	PERIMETER FENCE			

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Section No. 11

EXTERNAL WORKS

Bill No. 6

PERIMETER FENCE

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Section No. 11

EXTERNAL WORKS

Bill No. 6

PERIMETER FENCE

Item No		Quantity	Rate	Amount
	<u>SECTION NO.11</u>			
	<u>BILL NO.7</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. 11			
	EXTERNAL WORKS			
	Bill No. 7			
	SEPTIC TANK			

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Section No. 11

EXTERNAL WORKS

Bill No. 7

SEPTIC TANK

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Section No. 11

EXTERNAL WORKS

Bill No. 7

SEPTIC TANK

Item No		Quantity	Rate	Amount
	<u>SECTION NO.11</u>			
	<u>BILL NO.8</u>			
	<u>FRENCH DRAINS</u>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	15	
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
2	Holes	m3	8	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1	
4	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
5	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	15	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	20	
7	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding not exceeding 3m deep	m2	20	
	Carried to Collection			
	Section No. 11			
	EXTERNAL WORKS			
	Bill No. 8			
	FRENCH DRAIN			

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Section No. 11

EXTERNAL WORKS

Bill No. 8

FRENCH DRAIN

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Section No. 11

EXTERNAL WORKS

Bill No. 8

FRENCH DRAIN

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.12</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 giving every facility to Specialists as described	Item		
3	Allow for profit on above if required	Item		
	<u>Elevated Tanks and Tank Stands</u>			
4	Provide the sum of R 187 500,00 (one hundred and eighty seven thousand five hundred rands) for the supply and installation of 3 x 10000 elevated tanks and tank stands	Item		187 500.00
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		
	Carried to Collection		R	
	Section No. 12			
	PROVISIONAL SUMS			
	Bill No. 1			
	PROVISIONAL SUMS			

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Section No. 12

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

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PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

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1	PRELIMINARIES AND GENERAL	37		
2	DEMOLITIONS	40		
3	MD2	85		
4	M3	128		
5	F6	171		
6	FD5	216		
7	FD7	261		
8	GRMD1	306		
9	GRFD2	350		
10	MD3	395		
11	EXTERNAL WORKS	428		
12	PROVISIONAL SUMS	431		
	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	