

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 1</u>			
	<u>BILL No. 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	i) The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 March 2005, and other contract documents that together form the contract between the employer and contractor			
	ii) The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein			
	iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary			
	iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	<u>PREAMBLES FOR TRADES</u>			
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained			
	Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles			
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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 said Model Preambles and in any supplementary preambles

PRICING OF PRELIMINARIES

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, where

"F" denotes a fixed amount (amount not to be varied),
"V" denotes an amount variable in proportion to value and
"T" denotes an amount in proportion to time

SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- 1 Definitions and interpretation (clause 1)

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

Item

Objective and Preparation (A2 to A14)

- 2 Offer acceptance and performance (clause 2)

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

Item

- 3 Documents (clause 3)

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

Item

- 4 Design responsibility (clause 4)

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

Item

- 5 Employer's agents (clause 5)

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

Item

- 6 Site representative (clause 6)

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7	<p>Compliance with regulations (clause 7)</p> <p>Without limiting the generality of the provisions of Clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993 and Part C4.2 (Annexure C) of this tender document. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor must also comply with all Covid-19 regulations and protocols. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications.</p> <p><u>Asbestos removal.</u> The Contractor must make provision in his price for the appointment of a independent qualified certified and registered asbestos inspector to evaluate and monitor the removal of any asbestos material encountered in the course of the works.</p> <p>The Contractor shall provide a breakdown of the price against the following items:</p> <p>(a) : Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations R_____</p> <p>(b) : Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations R_____</p> <p>(c) : Provision of a part time / full time (delete as applicable) Construction Safety Officer R_____</p> <p>(d) : Asbestos inspector R _____</p> <p>F: V:..... T:.....</p>				
8	<p>Works risk (clause 8)</p> <p>F: V:..... T:.....</p>	Item			
9	<p>Indemnities (clause 9)</p> <p>F: V:..... T:.....</p>	Item			
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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) F: V:..... T:.....	Item		
<u>Execution (A15-A23)</u>				
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) In addition to the provisions of sub-clause 17.3 contract instructions are to be recorded in triplicate in a contract instruction book, which is to be supplied and maintained on site by the Contractor. F: V:..... T:.....	Item		
18	Setting out of the works (clause 18) F: V:..... T:.....	Item		
19	Assignment (clause 19) F: V:..... T:.....	Item		
20	Nominated subcontractors (clause 20) F: V:..... T:.....	Item		
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21	Selected subcontractors (clause 21) F: V:..... T:.....	Item		
22	Employer's Direct Contractors (clause 22) F: V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F: V:..... T:.....	Item		
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24) F: V:..... T:.....	Item		
25	Works completion (clause 25) F: V:..... T:.....	Item		
26	Final completion (clause 26) F: V:..... T:.....	Item		
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) The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor the adjustment of contract value (Clause 29.2) F: V:..... T:.....	Item		
30	Penalty for non-completion (clause 30) F: V:..... T:.....	Item		
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Payment (A31 - A35)

31 Interim payment to the contractor (clause 31)

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

Item

32 Adjustment to the contract value (clause 32)

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor.

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

Item

33 Recovery of expense and loss (clause 33)

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

Item

34 Final account and final payment (clause 34)

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

Item

35 Payment to other parties (clause 35)

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

Item

Cancellation (A36-A39)

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:.....

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	<p><u>Dispute (A40)</u></p> <p>40 Dispute Settlement (clause 40)</p> <p>F: V:..... T:.....</p> <p><u>Substitute Provisions (A41)</u></p> <p>41 State clauses (Clause 41)</p> <p>F: V:..... T:.....</p> <p><u>THE SCHEDULE</u></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given in VOLUME 3 OF 3 that accompanies these Bills of Quantities</p> <p>Details of changes made to the provision of JBCC standard documentation is given in C1.2 CONTRACT DATA in Volume 3 of 3 that accompanies these Bills of Quantities</p> <p><u>CONTRACT DATA EC</u></p> <p>42 The defined listed variables applicable to this agreement as contained in the employer to contractor (EC) addendum (clause 42)</p> <p>Information necessary for completion of those clauses contained in the addendum which are necessary for tender purposes is given in C1.2 Contract Data contained in Volume 3 of 3 of the documentation.</p> <p>F: V:..... T:.....</p> <p><u>SECTION B: PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p> <p>43 Definition and interpretation (B1.1 - B1.4.6)</p> <p>F: V:..... T:.....</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>		
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Documents (B2)

44	Checking of documents (B2.1) F: V:..... T:.....	Item
45	Provisional bills of quantities (B2.2) F: V:..... T:.....	Item
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

The site (B3)

50	Defined works area (B3.1) F: V:..... T:.....	Item
51	Geotechnical investigation (B3.2) F: V:..... T:.....	Item
52	Inspection of the site (B3.3) F: V:..... T:.....	Item
53	Existing premises occupied (B3.4) F: V:..... T:.....	Item
54	Previous work - dimensional accuracy (B3.5) F: V:..... T:.....	Item

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55	Previous work - defects (B3.6) F: V:..... T:.....	Item		
56	Services - known (B3.7) F: V:..... T:.....	Item		
57	Services - unknown (B3.8) F: V:..... T:.....	Item		
58	Protection of trees etc (B3.9) F: V:..... T:.....	Item		
59	Articles of value (B3.10) F: V:..... T:.....	Item		
60	Inspection of adjoining properties etc (B3.11) F: V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
61	Management of the works (B4.1) F: V:..... T:.....	Item		
62	Programme for the works (B4.2) F: V:..... T:.....	Item		
63	Progress meetings (B4.3) F: V:..... T:.....	Item		
64	Technical meetings (B4.4) F: V:..... T:.....	Item		
65	Labour and Plant records (B4.5) F: V:..... T:.....	Item		
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Samples, Shop Drawings and Manufacturer's Instructions (B5)

66	Samples of materials (B5.1)			
	F: V:..... T:.....	Item		
67	Workmanship samples (B5.2)			
	F: V:..... T:.....	Item		
68	Shop drawings (B5.3)			
	F: V:..... T:.....	Item		
69	Compliance with Manufacturer's Instructions (B5.4)			
	F: V:..... T:.....	Item		

Temporary works and plant (B6)

70	Deposits and fees (B6.1)			
	F: V:..... T:.....	Item		
71	Enclosure of the works (B6.2)			
	F: V:..... T:.....	Item		
72	Advertising (B6.3)			
	F: V:..... T:.....	Item		
73	Plant, equipment, sheds and offices (B6.4)			
	F: V:..... T:.....	Item		
74	Main notice board (B6.5)			
	F: V:..... T:.....	Item		
75	Subcontractors' notice board (B6.6)			
	F: V:..... T:.....	Item		

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<u>Temporary services (B7)</u>				
76	Location (B7.1) F: V:..... T:.....	Item		
77	Water (B7.2) Option [A] shall apply F: V:..... T:.....	Item		
78	Electricity (B7.3) Option [A] shall apply F: V:..... T:.....	Item		
79	Telecommunication equipment (B7.4) Option [A] shall apply F: V:..... T:.....	Item		
80	Ablution facilities (B7.5) Option [A] shall apply F: V:..... T:.....	Item		
<u>Prime cost amounts (B8)</u>				
81	Responsibility for prime cost amounts (B8.1) F: V:..... T:.....	Item		
<u>Attendance on N/S Subcontractors (B9)</u>				
82	General attendance (B9.1) F: V:..... T:.....	Item		
83	Special attendance (B9.2) F: V:..... T:.....	Item		
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84	Commissioning - Fuel, water and power (B9.3) F: V:..... T:..... <u>Financial aspects (B10)</u> Statutory taxes, duties and levies (B10.1) F: V:..... T:.....	Item		
85	Payment of preliminaries (B10.2) Option [A] shall apply F: V:..... T:.....	Item		
86	Adjustment of preliminaries (B10.3) Option [A] shall apply F: V:..... T:.....	Item		
87	Payment certificate cash flow (B10.4) F: V:..... T:..... <u>General (B11)</u>	Item		
88	Protection of works (B11.1) F: V:..... T:.....	Item		
89	Protection/isolation of existing/sectionally occupied works (B11.2) F: V:..... T:.....	Item		
90	Security of the Works (B11.3) F: V:..... T:.....	Item		
91	Notice before covering work (B11.4) F: V:..... T:.....	Item		
92	Disturbance (B11.5) F: V:..... T:.....	Item		
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93	Environmental Disturbance (B11.6)				
	F: V:..... T:.....	Item			
94	Works cleaning and clearing (B11.7)				
	F: V:..... T:.....	Item			
95	Vermin (B11.8)				
	F: V:..... T:.....	Item			
96	Overhand work (B11.9)				
	F: V:..... T:.....	Item			
97	Instruction manuals and guarantees (B11.10)				
	F: V:..... T:.....	Item			
98	As built information (B11.11)				
	F: V:..... T:.....	Item			
99	Tenant Installations (B11.12)				
	F: V:..... T:.....	Item			
<u>SCHEDULE OF VARIABLES (B12)</u>					
100	Pre-tender information (B12.1)				
	The Special Conditions of Contract included in Volume 3 of 3 shall amplify, modify or supersede, as the case may be, the Conditions of Contract of JBCC 2005 to the extent specified therein, and shall take precedence and shall govern in the interpretation of any ambiguity or inconsistency between it and the Conditions of Contract.				
	F: V:..... T:.....	Item			
101	12.1.1 Provisional bills of quantities (B2.2)				
	The quantities are provisional:				
		Yes			
	F: V:..... T:.....	Item			
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102	12.1.2	Availability of construction documentation (B2.3) Construction documentation is not complete				
		Yes				
		F: V:..... T:.....	Item			
103	12.1.3	Interest of agents (B2.4)				
		F: V:..... T:.....	Item			
104	12.1.4	Defined works area (B3.1)				
		The precise area to be occupied by the contractor will be determined at site handover.				
		F: V:..... T:.....	Item			
105	12.1.5	Geotechnical investigation (B3.2)				
		F: V:..... T:.....	Item			
106	12.1.6	Existing premises occupied (B3.4)				
		F: V:..... T:.....	Item			
107	12.1.7	Previous work - dimensional accuracy (B3.5)				
		F: V:..... T:.....	Item			
108	12.1.8	Previous work - defects (B3.6)				
		F: V:..... T:.....	Item			
109	12.1.9	Services - known (B3.7)				
		Where relevant all known services are indicated on the drawings and will be shown out during site handover.				
		F: V:..... T:.....	Item			
110	12.1.10	Protection of trees (B3.9)				
		F: V:..... T:.....	Item			
111	12.1.11	Inspection of adjoining properties (B3.11)				
		F: V:..... T:.....	Item			
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112	12.1.12 Enclosure of the works (B6.2)				
	F: V:..... T:.....	Item			
113	12.1.13 Offices (B6.4.3)				
	F: V:..... T:.....	Item			
114	12.1.14 Main notice board (B6.5)				
	A notice board is required				
	Yes				
	F: V:..... T:.....	Item			
115	12.1.15 Subcontractors notice board (B6.6)				
	A notice board is required				
	Yes				
	F: V:..... T:.....	Item			
116	12.1.16 Water (B7.2)				
	Alternative Selected: A				
	F: V:..... T:.....	Item			
117	12.1.17 Electricity (B7.3)				
	Alternative selected: A				
	F: V:..... T:.....	Item			
118	12.1.18 Telecommunications (B7.4)				
	Alternative selected: A				
	Telephone and e-mail to be provided				
	F: V:..... T:.....	Item			
119	12.1.19 Ablution facilities (B7.5)				
	Alternative selected: A				
	F: V:..... T:.....	Item			
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	<u>BILL NO. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, ETC. (ALL TRADES)</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Breaking up and removing mass concrete</u>			
1	Concrete steps	m ³ 2		
2	Concrete surface beds	m ² 225		
3	Concrete walkways not exceeding 100mm thick	m ² 329		
4	Saw cut minimum 50mm deep fro demolition of surface beds	m 230		
	<u>Taking up and removing roofs</u>			
	<i><u>Sheeting and trusses</u></i>			
5	Profiled roof sheeting complete with flashings and counter flashings, removal of gutters, etc.	m ² 1 782		
6	Ditto, Asbestos roof sheeting by registered and approved contractor in compliance with Section 20 of the Enviroment Conservation Act 1989 (Act 73 of 1989) and dispose as directed	m ² 406		
7	Timber roof structure including trusses, purlins, fascias, bargeboards, eaves covering, etc. (measured on flat over floor area excluding overhangs)	m ² 1 972		
8	Gypsum/Fible cement boarded ceilings complete with brandering	m ² 1 476		
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<u>Breaking down and removing brickwork, blockwork, etc</u>					
9	Half brick wall in beamfilling	m ²	222		
10	One brick wall in foundations	m ²	5		
<u>Removal of finishes to walls, etc.</u>					
11	Hack off and remove existing plaster and prepare to receive new plaster	m ²	379		
12	Chip existing plastered and painted walls slush with a mixture of bonding liquid and cement and prepare to receive tiles	m ²	207		
<u>Taking out and removing doors, windows, etc from brickwork to remain</u>					
13	Timber door and prepare frame to receive new door	No	10		
14	Timber single door and steel frame 813 x 2032mm high from half brick wall	No	14		
15	Timber single door and steel frame 813 x 2032mm high from one brick wall	No	13		
16	Glazed steel window 889 x 1248mm from 190mm block wall	No	18		
17	Ditto, 1000 x 1250mm	No	5		
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)</u>					
18	Timber single door and steel frame 813 x 2032mm high from one brick wall	No	21		
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>					
19	Take out and remove existing screed with floor finish not exceeding 50mm thick and prepare to receive new screed	m ²	1 655		
<u>Building in of new doors and windows into existing block work including making good to all trades</u>					
20	New pressed steel door frame for single door approximate size 900 x 2100mm high in half brick wall	No	14		
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21	New pressed steel door frame for single door approximate size 900 x 2100mm high in 190mm block wall	No	32
22	New steel window approximate size 900 x 1300mm in 190mm block wall	No	18
23	Ditto, size 1000 x 1250mm	No	5
<u>Taking out and removing of fittings</u>			
24	Framed softboard pinning boards	m ²	127
25	76mm Timber skirting	m	313
26	Wall mounted writing board size 5400 x 900mm including plugging up and filling of holes.	No	18
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
27	Disconnect, take down and remove 550 x 460 mm porcelain/stainless steel wash hand basin including brackets, wastes, etc. and blank off pipes complete (Credit R)	No	14
28	Disconnect, take down and remove ceramic/stainless steel WC pan complete with cistern, including brackets, stop cock, etc. and blank off pipes complete (Credit R)	No	18
29	Disconnect, take down and remove ceramic/stainless steel bowl urinal complete with urinal step, trap, etc. and blank off pipes complete (Credit R)	No	6

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<u>Extra over trench and hole excavations in earth for excavation in</u>					
2	Soft rock (LI)	m ³	15		
3	Hard rock	m ³	1		
<u>Extra over all excavations for carting away</u>					
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m ³	1		
<u>Risk of collapse of excavations</u>					
5	Sides of trench and hole excavations not exceeding 1,5 m deep (LI)	m ²	25		
<u>Keeping excavations free of water</u>					
6	Keeping excavations free of water		Item		
<u>FILLING, ETC. OTHER THAN BULK</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 100m from perimeter of excavations or stock piles compacted to 90% Mod AASHTO density</u>					
7	Backfilling to trenches, holes, etc (LI)	m ³	20		
<u>Imported G5 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>					
8	Under floors, steps, pavings, etc (LI)	m ³	32		
<u>Coarse river sand filling</u>					
9	Under floors, etc (LI)	m ³	16		
<u>Compaction of surfaces</u>					
10	Compaction of ground surface under floors, etc including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 90 % Mod AASHTO density (LI)	m ²	324		
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<u>Prescribed density tests on filling</u>					
11	"Modified AASHTO Density" test	No	25		
<u>SOIL POISONING</u>					
<u>"Clordane" or "Aldrin" type mixed with water to manufacturers specifications and applied at a rate of not less than 5 litres per square meter.</u>					
12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	324		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>General</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)					
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.					
Formwork to 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"					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
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	<u>25MPa/19mm concrete</u>			
13	Column bases	m ³	9	
	<u>TEST BLOCKS</u>			
14	Allow for necessary concrete test cubes size 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Method 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent	No	20	
	<u>FORMWORK CLASS F1 (ORDINARY FINISH)</u>			
	<u>Formwork to sides</u>			
15	Sides of concrete bases	m ²	42	
	<u>BRICKWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
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Samples

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site

Brickwork Bond

All brickwork shall be laid in stretcher bond unless otherwise stated

Wire ties

All wire ties are to be galvanised concertina ties. Ties shall be of sufficient length to allow not less than 75mm of each end to be built into the brickwork. Ties are to be spaced at intervals of not more than 110mm in the horizontal direction and not more than 425mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

16	One brick walls	m ²	25
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Brickwork reinforcement

17	150mm Wide reinforcement built in horizontally in foundation	m	294
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PLASTERING

External Cement Plaster

On brickwork

18	Vertical surfaces in patchwork	m ²	25
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Bill No. 2
Foundations

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Section No. 2

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Foundations

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Foundations

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 2</u>			
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<u>Cost of tests</u>			
The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
<u>Formwork</u>			
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.			
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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"

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

TEST BLOCKS

- 1 Allow for necessary concrete test cubes size 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Method 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent

No 45

REINFORCED CONCRETE

25 MPa/19 mm concrete

- 2 Surface beds cast in panels on waterproofing
- 3 Surface beds
- 4 Steps

m³ 78

m³ 20

m³ 1

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth non slip finish with a wood float

- 5 Surface beds, slabs, etc to falls
- 6 Ditto, on steps

m² 324

m² 8

FORMWORK CLASS F2 (SMOOTH FINISH)

Formwork to sides

- 7 Sides of concrete slabs
- 8 Edges, risers, ends and reveals not exceeding 300mm high or wide

m² 83

m 210

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Concrete, Formwork and Reinforcement

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9	Risers not exceeding 300mm high	m	27
10	Raking and stepped outer edge of stairs	m	5
	<u>Boxing in formwork to form</u>		
11	25 x 25mm Splayed corner	m	245
	<u>MOVEMENT JOINTS, ETC</u>		
	<u>Expansion joints of "Sondor Jointex" closed cell expanded polyethylene between vertical concrete and brick surfaces</u>		
12	10mm Joints not exceeding 300mm high with 10mm high tear off strip at top (Provisional)	m	345
	<u>REINFORCEMENT</u>		
	<u>Welded steel fabric reinforcement including laps (measured net)</u>		
13	Type 193 reinforcement in concrete surface beds, slabs, etc	m ²	329
	<u>SUNDRIES</u>		
14	Allow for all cover blocks and spacers.		Item

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Concrete, Formwork and Reinforcement

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Concrete, Formwork and Reinforcement

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 2</u>			
<u>BILL NO. 4</u>			
<u>MASONRY</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>Samples</u>			
Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site			
<u>Brickwork Bond</u>			
All brickwork shall be laid in stretcher bond unless otherwise stated			
<u>Wire ties</u>			
All wire ties are to be 250 x 20 x 3mm thick galvanised vertical twisted ties			
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BRICKWORK

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

1	Half brick walls	m ²	6
2	Half brick wall in beam filling	m ²	187
3	One brick wall	m ²	5
4	190mm Block wall	m ²	49
5	190mm Block wall in beasmfilling, gables, etc	m ²	6

BRICKWORK SUNDRIES

Bagging of 1:3 cement and sand mixture

6	Fill top of half brick wide door frames with cement mortar	m	12
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Brickwork reinforcement

7	75mm Wide reinforcement built in horizontally	m	18
8	150mm Wide reinforcement built in horizontally	m	15

Galvanised hoop iron cramps, ties, etc

9	38 x 1,6mm Roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	Rate only
10	1,6 x 38mm Hoop iron lug 450mm long with one end fixed to frame and other end built into brickwork	No	Rate only

EXTERNAL WINDOW SILLS

Precast concrete sill left smooth form the mould

11	100mm wide set raking and 10mm projecting	m	161
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Masonry

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Item No		Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BILL NO. 5</u>				
<u>WATERPROOFING</u>				
<u>PREAMBLES</u>				
For Preambles refer to "Model Preambles for Trades 2008"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary items or materials</u>				
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
1	In walls	m ²	14	
<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
2	Under surface beds	m ²	225	
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Waterproofing				
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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS, ETC</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>METAL SHEETING AND ACCESSORIES</u>			
	NOTE: The contractor is to submit a certificate signed by the merchant, stating that the roof covering supplied complies with the required thickness specified.			
	<u>Global Roofing Solutions 0.58mm thick 700mm cover Klip-Lok 700™ profile Chromadek Ultim® Z275 spelter ISQ550 finish topcoat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres (final spacing to be calculated by an Engineer) using KL700 plus clips fixed with 10No.11 x 45mm long self-drilling wafer head PH2 screws, type 17 drill point fasteners (fastener lengths may vary depending on the insulation used or requirements), all following the manufacturer's specifications by a GRS approved contractor.</u>			
1	Roof covering in single sheets with pitch not exceeding 25 degrees	m ²	2 186	
	<u>0,8mm Cromadek finished sheet steel roofing accessories to match roof sheeting</u>			
2	Ridge capping 462mm girth, three times bend to detail	m	225	
3	Gable/barge trim 385mm girth, three times bend to detail	m	165	
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Roof Coverings, etc

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Bill No. 6

Roof Coverings, etc

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<u>SECTION NO. 2</u>			
<u>BILL NO. 7</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<i><u>Specification for fixing</u></i>			
Unless otherwise described, all carpentry and joinery work must be securely fixed with all timber components nailed. Other methods of fixing are specifically described as follows:			
(i) the term "bolted" means fixing with bolts, bolts and holes are measured elsewhere.			
(ii) the term "pinned" or "nailed" means fixing with nails, hardened steel nails or wire nails as required, to and including hardwood plugs in brickwork or concrete.			
(iii) the term "plugged and screwed" means fixing with screws to and including patent fibre or plastic plugs in brickwork or concrete.			
(iv) the term "plugged and pelleted" means plugged as previously described, screwed with heads of screws sunken and pelleted with pellets of the same type of wood.			
<i><u>Finger jointing:</u></i>			
The manufacture of finger-jointed structural timber shall comply with SABS 096 and branded accordingly.			
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Pretreatment of timber

All timber including scaffolding, formwork, etc. used on site shall be free of borer or other beetle and termite infection. All permanent softwood fixed in buildings shall be treated against borer, etc. in accordance with Government Notice R451 of 1969-03-28 using Class B or C preservative. The type of preservative used shall be appropriate to the use of the timber. Any prescribed treatment shall comply with SABS 05

When treated timbers are cut, the cut surfaces shall be effectively brushed with at least two coats of preservative solution.

Decorative laminate finish:

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

PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES

GENERAL

TIMBER AND METAL CONNECTOR PLATES

Prefabricated Timber Roof Trusses are based on SANS 10160, 10163 & 10243 and connected with an accredited Engineering System's nail plates as per their design and supplied by an accredited ITC-SA Fabricator

TRUSS CONNECTION

The trusses shall be constructed with jigs specially designed to provide correct cambers and pitches.

All joints are to be close fitted butt joints and made by precision pressing of the metal connector plate into each side of the joint

TRUSS LOADING

The dead load of the trusses shall be to accommodate metal roof sheeting on 50 x 75mm SA Pine battens, a 9mm skimmed gypsum and / or 6mm fibre cement board ceiling nailed on 38 x 50mm bracker at 300 or 600mm centres in one direction, 135mm thick thermal insulation and Sisalation FR420 Fire Retardant grade aluminium foil based insulation

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TRUSS DESIGN

All trusses shall be designed by a Registered Professional Engineer (in accordance with the SABS Code of Practices for the Design of Timber Structures)

In designing all the trusses, etc., note must be taken of the adverse weather conditions which prevail from time to time in the area in which they are to be erected

TRUSS SPACING

The truss centres shall be as described in the Bills of Quantities for each respective truss type, or such other truss centres specified on the engineer's or fabricator's drawings

TRUSS PITCH

The truss pitch shall be as described in the Bills of Quantities for each respective truss type

PREFABRICATED ENGINEERED ROOF TRUSSES

Prefabricated timber roof construction complete (including battens and/or purlins, wall plates, bearers, bracing, etc.) designed, constructed, delivered and erected by an approved firm of specialists, under a written guarantee. Both the design and design guarantee shall be lodged with the project manager for approval before the work is commenced. Once erected an erection certificate shall be supplied to the Project Manager (Refer to drawings annexed to these bills of quantities)

Supply, fabricate and deliver to site of roof structure

Engineer's Certificate

- | | | | |
|---|---|----|------|
| 1 | Provide an engineer's certificate covering the design of the plate nailed timber roof structure to all three sections | No | 1.00 |
|---|---|----|------|

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Supply, fabricate and deliver to site of roof structure

- 2 Supply roof structure over existing guard house area approximately 9m2 with 26 degree double pitch roof and two gable ends size 2,80 x 2,8m span complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)
- 3 Supply roof structure over existing ablution block area approximately 67m2 with 26 degree double pitch roof and two gable ends size 11,20 x 6,0m span complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)
- 4 Supply roof structure over existing ablution block area approximately 67m2 with 26 degree double pitch roof and two gable ends size 11,20 x 6,0m span complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)
- 5 Supply roof structure over existing classroom block area approximately 236m2 with 26 degree double pitch roof and two gable ends size 24,00 x (8,0 + 1,8)m walkway span complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)

Item

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6	Supply roof structure over existing classroom block area approximately 481m2 with 26 degree double pitch roof and two gable ends size 51,20 x (7,60+1,8)m walkway span complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)		Item		
7	Supply roof structure over existing classroom block area approximately 482m2 with 26 degree double pitch roof and two gable ends size 49,20 x (8,00+ 1,8)m walkway span complete with overhangs, bracing, fixing cleats, hangers, coach screws, purlins, wall plates, to receive 0,58mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)		Item		
8	Supply roof structure over existing double pitched administration block including covered entrance and two adjacent classroom blocks area approximately 544m2 with 26 degree double pitch including four valleys and five gable ends (administration wing 38,9 x 8,2m span; entrance 3,70 x 4,40m span one classroom block 8,1 x 7,9m span and other classroom block 16,2 x 8,9m span) complete with overhangs, bracing, fixing cleats, hangers, coach screws, tiling battens, wall plates, to receive 0,6mm sheet metal roofing and 6mm fibre cement ceilings, all in accordance with specialists drawings and specifications provided by the manufacturer (Roof coverings elsewhere measured) (See attached architects drawing)		Item		
<u>Erection on site of roof structures as detailed above</u>					
<i><u>Engineer's Certificate</u></i>					
9	Provide an engineer's certificate covering the erection of the plate nailed timber roof structure over all three sections	No	1.00		
<i><u>Erection</u></i>					
10	Roof structure approximately 9m2		Item		
11	Roof structure approximately 67m2		Item		
12	Roof structure approximately 67m2		Item		
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13	Roof structure approximately 236m2		Item
14	Roof structure approximately 481m2		Item
15	Roof structure approximately 482m2		Item
16	Roof structure to T-shaped admin and classroom blocks complete with entrance approximately 543m2		Item
<u>Wrought Laminated South African Pine</u>			
17	50 x 228mm Laminated beam	m	185
<u>SUNDRIES</u>			
18	Three coats carbolineum on sawn timbers	m ²	381
<u>EAVES, VERGES, ETC</u>			
<u>Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225 x 12mm, fixed to 50 x 76mm tilter purlin and 50 x 76mm support purlins between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiner between boards and at board ends.</u>			
19	15 x 225mm Fascia board countersunk screwed to support and roof timbers (elsewhere) with two brass screws at maximum 750mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	446
20	Ditto, barge/gable trim, ditto	m	165
<u>DOORS, ETC</u>			
<u>Wrought Meranti solid doors</u>			
21	40mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom ledge, 10 x 150mm braces filled in with 20mm V-jointed one side boarding and 6mm solid plywood flush back	No	26
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**Semi-solid core flush doors with commercial veneer
(suitable for paint) on both sides and consealed edges,
hung to steel frames**

22	40mm Door 813 x 1 850mm high	No	14
23	40mm Door 813 x 2,032mm high	No	18

SKIRTINGS

Wrot Meranti

24	67 x 19mm Standard Meranti skirting with 19x14mm Meranti Quadrant fixed to wall with casting nails	m	570
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FITTINGS

25	2700 x 900mm High "Vitrex" wall mounted framed pinning boards with "Flortime" smoke grey finish	No	36
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<u>SECTION NO. 2</u>				
<u>BILL NO. 8</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
NOTE:				
Tenderer s are advised to study the Model Preambles for Trades 2008 before pricing this bill				
<u>CEILINGS</u>				
<u>NAILED UP CEILINGS</u>				
<u>NUTEC Ceiling boards</u>				
<i>Ceiling formed of 4 mm thick boards with and including pre primed H-section cover strips neatly mitred at intersections and countersunk screwed at 150mm centres with 32mm coarse thread to and including 38 x 50 mm SA Pine (grade 7) brandering at 450 mm centres in one direction securely spiked to roof timbers and ceiling joists (elsewhere)</i>				
1	Ceilings	m ²		Rate only
<i>Ceiling formed of 6 mm thick fibre cement boards with and including pre primed H-section cover strips neatly mitred at intersections and countersunk screwed at 150mm centres with 32mm coarse thread to and including 38 x 50 mm SA Pine (grade 7) brandering at 400 mm centres in one direction securely spiked to roof timbers and ceiling joists (elsewhere)</i>				
2	Ceilings	m ²	1 566	
3	6mm Eaves covering including brandering	m ²	324	
4	Ditto, triangular splayed gable end closure 1800mm wide one side 600mm high and other side 75mm high screwed to monoplanner timber truss	No	12	
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Ceilings, Partitions and Access flooring				
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Ceilings, Partitions and Access flooring

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Bill No. 8

Ceilings, Partitions and Access flooring

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FLOOR COVERINGS, WALL LININGS, ETC.

Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group no. 130 for CPAC JBCC purposes

FloorworX Floorflex® semi flexible vinyl floor tiles colour as per architect, size 300 x 300 x 2.0mm thick, manufactured in accordance with SANS 581, laid in FloorworX No. 62 acrylic adhesive spread with a trowel fitted with an A2 notched blade at a rate of between 5.5m² and 6.5m² per litre on suitably prepared subfloor (elsewhere specified) in accordance with SANS 10070, using FloorworX Self Leveller when required and rolled with 68kg three section metal roller on completion. adhesive in strict accordance with the manufacturers specifications.

1	On screeded floors
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 m^2

1 135

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<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>Fixing</u>			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs in brickwork or concrete			
	<u>HINGES, BOLTS, ETC</u>			
1	"293/E41" WC indicator bolt with keep fixed to meat and satin chromium plated finish	No	14	
	<u>LOCKS</u>			
2	"Union" lock set consisting of Dove lever handles on 150 x 45 x 10mm concealed fixing backplates (Code AL6D45-05AB), Euro profile cylinder lock case (Code L-22315-76SS) with Euro profile double cylinders (Code 2x810/62PLKA)	No	44	
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	Ironmongery			
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<u>LETTERS, NAMEPLATES, ETC (PROVISIONAL)</u>				
3	3mm Thick clear perspex numeral plate 32mm high reverse engraved and enamelled in two 20mm high numerals and/or letters, twice countersunk holed for and screwed to door with chromium plated dome headed screws	No	42	
<u>"Union" 150 x 150mm anodised silver aluminium plate with symbols according to international colour codes, plugged.</u>				
4	"AL5022-E10AS" with Ladies/Gents symbol	No	13	
5	"AL5022-E14AS" with Paraplegic symbol	No	1	
<u>Sundries</u>				
6	28mm Diameter x 1mm thick brass key label with 12mm high stamped number or letters and holed for and including stainless steel split key ring	No	65	
7	175mm Cast brass sliding stay with screws	No	13	
8	300mm Cast brass casement stay	No	32	
9	Cast brass spring loaded window latch	No	60	
10	Solid cast brass casement window handle with bush and screw	No	13	
<u>BATHROOM FITTINGS</u>				
11	Stainless steel vandal proof toilet roll holder plugged	No	15	
<u>"Chairman Industries" [Tel. (011) 624 1222]</u>				
12	"SR2" 32mm diameter stainless steel rear grab rail around WC flushvalve bolted with non-rust expansion bolts	No	1	
13	"DL3" 32mm diameter side grab rail bolted with non-rust expansion bolts	No	1	
<u>SUNDRIES</u>				
14	38mm Diameter rubber door stop plugged	No	58	
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Section No. 2

Bill No. 10

Ironmongery

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Bill No. 10

Ironmongery

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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 11</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>HOT DIPPED GALVANISED STEEL POSTS</u>			
1	75mm Diameter x 3mm wall thickness column 3,0m long top fitted with and including 6 x 50mm mild steel bracket 280mm long once bend and twice holed for bolts welded on and bottom fitted with 150 x 150 x 6mm baseplate and cast into concrete. (concrete elsewhere)	No	52	
2	Bolts with nuts and washers	kg	10	
	<u>HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2 mm Double rebated frames suitable for half brick walls with two 100mm steel butt hinges per door leaf</u>			
3	Frame for door 44 x 813 x 2 032mm high	No	14	
	<u>1,2 mm Double rebated frames suitable for one brick walls with hinges (elsewhere measured) fitted to frame</u>			
4	Frame for door 44 x 813 x 2 032mm high	No	34	
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HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC

NOTE: Windows with frames to conform with SANS Specification No 727 and with purpose made burglar proofing formed of 20 x 5mm thick mild steel flat section bar, bent to be 75mm away from glass surfaces and horizontally welded to window frames with pattern similar to "SWADA NBP2"

Standard mild steel school windows fitted with 20 x 5mm mild steel flat section galvanised burglar bars

5	Window type 6/4 size 889 x 1248mm	No	18
6	Cottage pane window type G7C7 size 1022 x 1264mm	No	5

BURGLAR BARS

Burglar bars formed of 5 x 25mm flat bar in both directions to form squares not exceeding 200 x 200mm welded to existing window frames

Sizes are approximately and final measurements must be taken on site

7	Window size 600 x 600mm	No	4
8	Window size 900 x 950mm	No	1
9	Window size 900 x 1250mm	No	140
10	Window size 1000 x 1200mm	No	11
11	Window size 1450 x 1250mm	No	1

HOT DIPPED GALVANISED STEEL SECURITY GATES

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WRITING BOARDS

13	"Vitrex" Model 3503 wall mounted writing board with fixed and swing panels and marker writing surface	No	18
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Metalwork

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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 12</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>SCREEDS</u>			
	<u>NOTE:</u>			
	The finishes to concrete floors and screeds are to comply to the highest SABS to flatness of accuracy 1 of table 4 of SABS 0109-2:1992 and permissible deviation in floors will be grade 1 as per table A1 SABS 070:1991. For vinyl floors the flatness degree of accuracy will not exceed SABS degree of accuracy 1 as per table 4 SABS 0109-2:1992 and the maximum tolerance will be 1mm			
	<u>Granolithic screeds on concrete</u>			
1	30mm Thick on floors wood floated to receive ceramic tiles	m ²	431	
2	35mm Thick on floors steel floated to receive vinyl tiles	m ²	1 135	
	<u>PLASTER</u>			
	<u>Plaster mix for rough brick walls, composed of one part Surebuild 42,2N cement (Code: CEM II/B 42,5N) and 4 parts washed plaster sand 10mm - 20mm thick finished with a wood float to rough brick walls. Surebuild cement is to be manufactured in accordance with SANS 50197-1. Cement plaster shall be produced in such quantities as can be used before commencing to set as no cement plaster that has once commenced to set shall be used in any way. Care shall be taken in mixing cement plaster to remove from platform any old plaster that has already set as such plaster may not be incorporated into any new batch.</u>			
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster finished with a steel trowel on:</u>			
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Plastering

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Plastering

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<u>SECTION No. 2</u>			
<u>BILL No. 13</u>			
<u>TILING</u>			
NOTE : The Contractor is referred to the Model Preambles (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
<u>ADHESIVE SYSTEM</u>			
<p>(TAL) Allow all new concrete work and screeds to cure for at least 28 days before proceeding. All new concrete work and screeds must have a moisture content of 5% or less before tiling can be commenced. All screeds must be firmly attached to the underlying concrete, must be integrally sound and must be of a quality and consistency suitable for tiling. All defective areas must be removed and the floor made good before proceeding. Apply TAL Gold Star 6 rapid setting adhesive mixed 20kg with 5 litres of TAL Bond (replacing the water in the mix) using a notched TAL floor Trowel. Grout with TAL Fine Epoxy grout.</p> <p>Full body porcelain tiles (colour by architect), size 300 x 300mm, fixed to internal floor screed with TAL Professional tile adhesive mixed with TAL Bond® in lieu of water applied with a notched trowel to provide a solid adhesive bed of 5-6 mm. No voids should be left in the system. Adhesive should not be allowed to dry before application of tiles.</p> <p>Joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.</p> <p>All preparatory work and applications must be done in accordance with the manufacturers specifications and rates must include for this</p>			
<u>MOVEMENT JOINTS</u>			
<p>Suitable movement joints should be located at maximum 4,5 m centres in both directions, horizontally and vertically and within 1 m of all horizontal and vertical corners and against any obstructions fixed to the structural background.</p>			
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SUPPLY OF TILING

The contractors rates must include for wastage, taking delivery, offloading, storing and fixing including tile adhesive and grout

WALL TILING

GLAZED CERAMIC WALL TILING

Union Tiles Yek ceramic tiles (Code: 1YEKWHIWALGLO200), size 200 x 200mm, fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL Bond® in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.

1	On walls	m ²	205
2	Ditto, in narrow widths	m ²	4
3	Window sill formed of 90mm wide cut tile horizontally in window rebate and 90mm high vertical fascia to wall	m	134

FLOOR TILING

PORCELAIN FLOOR TILES

Union Tiles full body porcelain tiles (colour by architect), size 300 x 300mm with a PC sum of R 300-00/m² (Three hundred rand per meter square) (net excluding VAT but including delivery and waste) purchase price installed with approved adhesive and grouted solid with matching grout all strictly in accordance with the manufacturer's specifications to:

4	350 x 350mm To floors, ramps and landings	m ²	434
5	Cut tile skirting 100mm high	m	410

JOINTS

M-Trim 12mm high stainless steel movement joint fitted with 6mm wide Dark Grey polyurethane infill (Code : SMJ120.09), fixed to floors with an approved adhesive. MAX. 20sqm TILED PANELS.

6	In tiled floors between panels	m	15
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<u>SECTION NO. 2</u>			
<u>BILL NO. 14</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>uPVC pipes and fittings:</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
<u>Reducing fittings</u>			
Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60 mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60 mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Flush pans</u>			
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary			
<u>Waste unions</u>			
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings			
<u>RAINWATER DISPOSAL</u>			
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0,6mm Cromadek finished sheet steel gutters and rainwater pipes

1	100 x 125mm Ogee roof gutters	m	451
2	Extra over gutter for stopped end	No	44
3	Ditto, for outlet	No	55
4	Ditto, for 90 degree internal corner	No	2
5	75mm Diameter rainwater pipes fixed to wall	m	173
6	Extra over downpipe for shoe	No	55
7	Ditto, for 350mm eaves offset	No	55

FIRE APPLIANCES ETC.

8	4,5kg DCP dry powder portable fire extinguisher on and including wrought Meranti blackboard size 100 x 255 x 25mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form nook.	No	20
9	5kg CO2 portable fire extinguisher on and including wrought Meranti blackboard size 1000 x 255 x 25mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	2

WATER SUPPLIES

High density polyethelene (SABS 533 type 4) pressure pipes including jointing with approved type fittings and couplings

10	15mm Pipe in ground or filling not exceeding 1m deep	m	30
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Extra over HDPE pressure pipes for fittings

11	15mm Fitting	No	22
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Class 2 copper pipes

12	15mm Pipes chased into masonry	m	39
13	22mm Pipes chased into masonry	m	10

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<u>Extra over class 2 copper pipes for capillary fittings</u>					
14	15mm Fittings	No	33		
15	15mm Brass wallplate elbow adaptor	No	4		
16	22mm Fittings	No	15		
<u>Extra over class 2 copper pipes for conex compression fittings</u>					
17	15mm Fittings	No	4		
<u>TAPS, VALVES, ETC</u>					
<u>"Cobra Watertech"</u>					
18	15mm Flexible connector 450mm long	No	8		
19	15mm "232/350" CP angle regulating valve with 350mm long chromium plated flexible supply tube and capnut	No	28		
20	22mm Angle regulating valve	No	2		
21	20mm "Flushmaster" Junior urinal flush valve (code: FJ6-001) or similar approved with non-hold open feature, vacuum breaker, back entry flush pipe, vandal resistant guide tube, pushbutton assembly with push rod, and 20mm "ball-o-stop" control inlet.	No	2		
22	Cobra Star Pillar tap. 1/2 BSP male iron connection end (Code: FPT2A1SR0GT01), size 60 x 130 x 150, installed as per manufacturers recommendation.	No	8		
23	"Cobra" Star Sink mixer 166/041 - Wall type sink mixer with aerated swivel outlet 1/2 BSP male inlets. (Code: FSK2W2SR-0GT01, size 90 x 140 x 310mm, installed as per manufacturers recommendation.	No	1		
<u>GEYSERS</u>					
<u>"Kwikot"</u>					
24	150l Kwikot high pressure white enameled vertical electrical hot water geyser complete with "kwikflo" K600 pressure control expansion relief valve, ballostop and vacuum breaker etc, fixed in position to wall.	No	1		
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SANITARY FITTINGS, INCLUDING FIXING IN POSITION, AND ALL CONNECTIONS TO PIPES

"Vaal" Sanitary ware or similar approved

25	"Cobra" Welcome Close coupled toilet colour White (Code: CWLCCST1-6DT01), size 510 x 460 x 950mm with standard seat and close coupled cistern with dual flush mechanism and connected to 15mm water supply, bolted to wall with stainless steel bolts and sealed with abe Dow Corning acetoxysilicone sealant where toilet meets wall. complete with heavy duty solid timber seat including fittings, braided connector, angle stop valve, etc. complete	No	4
26	"Cobra" Cobra Welcome Medium round wall hung basin colour White (Code: CWLBAWH2-6DT01), size 180 x 430 x 440mm deep with taphole, overflow, fixed with screws and washers to plugs in wall and sealed with abe Dow Corning 785 acetoxysilicone sealant where basin meets wall, basin waste with plug and chain, fixed on and including wall mounted basin brackets including fittings, deep seal rubber trap, braided connector, angle stop valve, etc. complete	No	4
27	"Cobra" Pause urinal colour White (Code: CPSURWH1-6DT01), size 370 x 39*0 x 610mm bolted to wall with stainless steel bolts and sealed with abe Dow Corning acetoxysilicone sealant where urinal meets wall.	No	2

"Atlas Plastics (Pty) Ltd" or other approved

28	"Atlas Plastics" rotomoulded polyethylene Cindy - 384 wash hand basin colour Granite (Code:384AP), overall size 300 x 405 x 200mm high with 40mm waste outlet, plugged and screwed to wall with galvanised screws.	No	10
29	Atlas Plastics rotomoulded polyethylene VIP 200 pit pedestal - 222 with seat and flap colour Granite (Code: 101235), overall size 387 x 518mm high with foot piece and VIP 200 inlet funnel - 224, inserted into precast concrete cover slab of pit (elsewhere specified) with removable plug.	No	14
30	Atlas Plastics rotomoulded polyethylene SC urinal - 511AP colour Granite with 40mm waterless waste - 496 (Code: 101228), overall size 350 x 320 x 470mm high plugged and screwed to wall with galvanised screws and brackets.	No	4

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<u>Stainless steel</u>				
31	Franke 1,2mm Grade 304 18/10 stainless steel S2 catering sink (Code: 2620025), size 1850 x 650 x 1050mm with 2 No. 500 x 500 x 230mm deep pressed bowls, 150mm high integral splashback to rear, 50 x 10mm turndown and 40mm waste outlet, stainless steel solid undershelf (Code: 2620086), size 1850 x 420mm wide, underside sprayed with vermin proof bitumastic sound deadening, fixed to wall with anchor bolts 900mm from finished floor level and supported on 2No. detachable Grade 304 (18/10) stainless steel square legs (Code: 354650), size 40 x 40 x 1,2mm thick, fitted with chrome plated adjustable flanged foot pieces.	No	1	
<u>WASTE UNIONS, ETC</u>				
<u>"Cobra Watertech"</u>				
32	32mm "301" CP basin waste union with back nut, plug and chain	No	18	
<u>TRAPS, ETC</u>				
<u>'Flexitraps':</u>				
33	32 x 40mm Butyl rubber 'P' or 'S' trap jointed to waste outlet fitting and to UPVC pipe including clamps.	No	20	
34	40 x 40mm Chromium plated urinal bottle trap	No	2	
35	40mm Deep seal combination sink "P" trap	No	1	
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
36	50mm Pipes	m	38	
<u>Extra over uPVC pipes for fittings</u>				
37	50mm Bend	No	50	
38	50mm Access bend	No	18	
39	50mm Junction	No	16	
40	50mm Access junction	No	8	
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	<u>BILL NO. 16</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Model Preambles for Trades 2008"			
	<u>PAINTWORK, ETC TO NEW WORK</u>			
	<u>ON PLASTER, ETC.</u>			
	<i>Prepare and apply one coat "Dulux" Primer for new Plaster (Code: D36) , and three coats "Dulux" Trade 100 Low Sheen (Code: T2001) acrylic:</i>			
1	On internal plastered walls	m ²	379	
	<i>Prepare and apply one coat "Dulux" Trade Plaster Primer for new Plaster (Code: T1001) , and three coats "Dulux" Weathershield (Code: T4007) acrylic:</i>			
2	On external plastered walls	m ²	236	
	<u>ON FIBRE-CEMENT</u>			
	<i>Prepare and apply one coat "Dulux" primer for new plaster (Code: D36) , one coat "Dulux" Trade filler coat (Code: T1007) and three coats "Dulux" Trade 100 Matt (Code: T2005) acrylic:</i>			
3	Gypsum board ceilings	m ²		Rate only
4	Fibre cement ceilings	m ²	2 162	
	<i>Prepare and apply one coat "Dulux" Trade plaster primer (Code: T1001) and two coats "Dulux" Weatherguard Ultra smooth (Code: D62) acrylic:</i>			
5	On fascias and barge boards	m ²	266	
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<i>Prepare and apply one coat "Dulux" Trade plaster primer (Code: T1001) and two coats "Dulux" Rainshield (Code: D59) acrylic:</i>					
6	Precast concrete window sills not exceeding 300mm girth	m	168		
<u>ON METAL</u>					
<i>Prepare, touch up factory primer and paint one coat "Dulux" Primer for Steel (Code:D1) and one coat "Dulux" universal undercoat (Code: T1001) and two coats "Dulux" Trade Gloss enamel (Code: T3001):</i>					
7	On pressed steel door frames	m ²	96		
8	Glazed steel windows (both sides measured)	m ²	53		
9	General surfaces of steelwork (Provisional)	m ²	375		
10	General surfaces of steel gates (both sides measured)	m ²	85		
11	Galvanised steel columns not exceeding 300mm girth	m	168		
12	600 x 600mm Ceiling access door and frame	No	9		
<u>ON WOOD</u>					
<i>Sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Dulux Primer for Wood (Code: D33), undercoat with one coat Dulux Universal Undercoat (Code: D34), and finish with two coats Dulux Trade Gloss Enamel (Code: T3001)</i>					
13	On framed panel doors	m ²	92		
<i>Prepare and prime surface with one coat Dulux Primer for Wood (Code: D33) and finish with three coats Dulux Trade 100 Lowsheen (Code: T2001)</i>					
14	On flush doors	m ²	113		
<i>Prepare, fill, sand down, clean to leave a dust free surface and apply two coats "Woodgard" Interior Double Life Timbavarnish (Eggshell) polyurethane varnish (colour to be selected) to:</i>					
15	Skirtings not exceeding 300mm girth	m	571		
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PAINT WORK ETC. TO EXISTING WORK					
<u>ON PLASTER, ETC.</u>					
<u>Paintwork to existing plastered and painted walls shall include surface preparation and the filling and making good of small cracks up to 3mm wide.</u>					
<i>Clean down all dirt, remove all loose and flaking paint, apply one coat "Dulux" Trade plaster primer (Code: T1001) and three coats "Dulux" Trade 100 Matt (Code: T2001) acrylic:</i>					
16	Existing plastered and painted internal walls	m ²	1 921		
<i>Prepare, remove all loose and flaking paint and apply one coat "Dulux" Trade Plaster Primer for new Plaster (Code: T1001), and three coats "Dulux" Weathershield (Code: T4007) acrylic:</i>					
17	Existing plastered and painted external walls	m ²	1 605		
<i>Prepare by removing all loose and flaking paint and apply one coat "Dulux" primer for new plaster (Code: D36), one coat "Dulux" Trade filler coat (Code: T1007) and three coats "Dulux" Trade 100 Matt (Code: T2005) acrylic:</i>					
18	Existing painted gypsum board ceilings	m ²			Rate only
<i>Remove all loose and flaking paint prepare and apply one coat "Dulux" Trade plaster primer (Code: T1001) and two coats "Dulux" Rainshield (Code: D59) acrylic:</i>					
19	Precast concrete window sills not exceeding 300mm girth	m	161		
<u>ON METAL, ETC.</u>					
<i>Prepare, remove all loose and flaking paint, sand down to matt surface and paint one coat "Dulux" Corrocote 1 (Code: T1020) and one coat "Dulux" universal undercoat (Code: T1001) and two coats "Dulux" Trade Gloss enamel (Code: T3001):</i>					
20	Existing painted steel door frame	m ²	22		
21	Existing painted glazed steel windows	m ²	292		
22	Existing painted steel record room door and frame	m ²	10		
23	Existing painted posts, rails, etc. not exceeding 300mm girth (Provisional)	m	376		
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ON WOOD

*Sand with abrasive paper, leaving surface clean and dust free.
Prime surface with one coat Dulux Primer for Wood (Code: D33), undercoat with one coat Dulux Universal Undercoat (Code: D34), and finish with two coats Dulux Trade Gloss Enamel (Code: T3001)*

24 On existing painted framed panel doors m² 22

Prepare and prime surface with one coat Dulux Primer for Wood (Code: D33) and finish with three coats Dulux Trade 100 Lowsheen (Code: T2001)

25 On existing painted flush doors m² 12

Prepare, fill, sand down, clean to leave a dust free surface and apply two coats "Woodgard" Interior Double Life Timbavarnish (Eggshell) polyurethane varnish (colour to be selected) to:

26 On existing varnished skirtings not exceeding 300mm girth (Provisional) m 298

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Paintwork

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<u>BILL NO. 1</u>			
<u>GENERAL SITE WORKS</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Model Preambles for Trades 2008"			
<u>Nature of ground</u>			
All excavations are measured as being predominantly of a composition that will allow "soft excavation" as specified, but including a percentage of "intermediate excavation" and "hard rock excavation"			
<u>Filling supplied by the contractor</u>			
The Contractor must ensure that the material from the quarry that he is basing his rate on conforms to the required minimum specification. Rates for items that include clearing and filling must include for multiple handling and transport thereof on site			
<u>Excavation depths</u>			
Unless otherwise described, all excavation depths shall be taken from the average reduced, natural or filled ground level			
<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 on the building site			
<u>Risk of collapse</u>			
Tenderers shall allow in his rates for risk of collapse of vertical face of excavations in open face not measured in this section			
<u>DEMOLITIONS ETC</u>			
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**Demolishing and removing of existing toilet buildings
de-sludging, disinfecting, grubbing up tanks underneath,
with clean soil and compact**

1	Single storey toilet block with single pitched roof approximately 2,50 x 2,50m on plan and 2,5m high at eaves comprising mainly concrete surface bed, brick walls, corrugated sheet metal roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. disinfect pit fill in and ram	No	1
2	Single storey toilet block with double pitched roof approximately 6,50 x 4,00m on plan and 2,8m high at eaves comprising mainly concrete surface bed, brick walls, corrugated sheet metal roof covering on timber trusses in pitched roof, complete with foundations, reinforced concrete slabs, doors, windows, etc. disinfect pit fill in and ram	No	1

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<u>SECTION NO. 3</u>			
<u>BILL NO. 2</u>			
<u>OPEN WALKWAYS, APRONS and STORMWATER CHANNELS</u>			
<u>Preambles</u>			
For Preambles refer to Standard Preambles To All Trades WB20-1986 and Supplementary Preambles Sup 1 to Sup 5			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary items or materials</u>			
Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
<u>Nature of ground</u>			
All excavations are measured as being predominantly of a composition that will allow "soft excavation" as specified, but including a percentage of "intermediate excavation" and "hard rock excavation"			
<u>Filling supplied by the contractor</u>			
The Contractor must ensure that the material from the quarry that he is basing his rate on conforms to the required minimum specification. Rates for items that include clearing and filling must include for multiple handling and transport thereof on site			
<u>Excavation depths</u>			
Unless otherwise described, all excavation depths shall be taken from the average reduced, natural or filled ground level			
<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			
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<u>SITE CLEARANCE ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc (LI)	m ²	1 070		
2	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m ²	797		
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>					
<u>Excavation in earth not exceeding 2 m deep</u>					
3	To reduce levels to final levels under under walkways (LI)	m ³	239		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
4	Soft rock (LI)	m ³	21		
5	Hard rock	m ³	12		
<u>Extra over all excavations for carting away</u>					
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m ³	239		
<u>Keeping excavations free of water</u>					
7	Keeping excavations free of water (LI)		Item		
<u>FILLING, ETC. OTHER THAN BULK</u>					
<u>Imported G5 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>					
8	Under aprons, walkways, etc (LI)	m ³	176		
<u>Compaction of surfaces</u>					
9	Compaction of ground surface under floors, etc including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 90 % Mod AASHTO density (LI)	m ²	797		
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	<u>Prescribed density tests on filling</u>				
10	"Modified AASHTO Density" test	No	12		
	<u>SOIL POISONING</u>				
	<u>"Chlordane" soil insecticide</u>				
11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	797		
	<u>PAVING</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>25 MPa/19 mm concrete</u>				
12	Aprons cast in panels on waterproofing	m ³	47		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
13	Surface beds, aprons, walkways, slabs, etc to falls	m ²	523		
	<u>FORMWORK CLASS F2 (SMOOTH FINISH)</u>				
	<u>Formwork to sides</u>				
14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	641		
	<u>Expansion joints of "Sondor Jointex" closed cell expanded polyethylene between vertical concrete and brick surfaces</u>				
15	10mm Joints not exceeding 300mm high with 10mm high tear off strip at top (Provisional)	m	888		
	<u>REINFORCEMENT</u>				
	<u>Welded steel fabric reinforcement including laps (measured net)</u>				
16	Type 193 reinforcement in concrete surface beds, slabs, etc	m ²	523		
	<u>WATERPROOFING</u>				
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	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>		
17	250 Micron green medium density damp-proof membrane laid loose on top of prepared earth under mass concrete or precast concrete paving	m ²	797
	<u>STORMWATER CHANNELS</u>		
	<i><u>25MPa Concrete in:</u></i>		
18	Open storm water channel 500mm wide x 200mm thick with 400mm wide x 100mm deep segmental V-shaped waterway, with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 1 800mm long with 12mm bitumen impregnated soft board movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavation and formwork	m	547
19	Extra for angled intersections	No	36
20	Spill basin 1 210mm wide at head, 2 430mm wide at bottom end and 1 000mm wide from head to bottom end, formed of 200mm thick concrete base with 200 x 200mm concrete upstand along two sides, with 200 x 200mm toe along bottom end including all necessary excavation, formwork and backfilling, the top of the base inlaid with eleven hard burnt clay bricks protruding 55mm above the surface of the concrete and with stones of 150 to 200mm diameter laid loose at the bottom end of the spill basin for a width of 500mm	No	6
21	Permanent formwork over 500mm wide storm water channel	m	29

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	<u>BILL NO. 3</u>			
	<u>FENCING</u>			
	<u>Preambles</u>			
	For Preambles refer to Standard Preambles To All Trades WB20-1986 and Supplementary Preambles Sup 1 to Sup 5			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>SITE PREPARATION</u>			
1	Take down and remove existing 1.80m high welded mesh steel security fence including all intermediate-, corner- and end posts with concrete footings, backfill and compact	m	201	
2	Loosen existing 1.80m high mesh steel security fence for installation of new post and re-span after installation of new post.	m	75	
3	Excavate, demolish base and remove existing 1.80m high post and prepare for new post, backfill and compact	No	17	
	<u>Clear site</u>			
4	Clear area of 2m wide for fence, including digging up and removing rubbish, debris, vegetation, hedges, boulders, shrubs and trees with trunk not exceeding 200mm girth	m	201	
	<u>CONCRETE</u>			
	<i>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</i>			
5	In base for intermediate post, size 400 x 400 x 600mm, with chamfered top surface projecting 50mm above surrounding ground level, including any necessary excavation, formwork, etc.	No	20	
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6	In base for end post, size 500 x 500 x 800mm, with wood floated top surface at ground level and recess 50mm deep in one side at top of base for 200 x 150mm concrete plinth (elsewhere), including any necessary excavation, formwork, etc.	No	17		
7	In base for stay, size 450 x 760 x 600mm, with chamfered top surface projecting 50mm above surrounding ground level, including any necessary excavation, formwork, etc.	No	14		
<u>Mild steel fencing</u>					
8	Security fencing 2,4m high overall formed of five strands of 4mm thick galvanised mild steel straining wire mechanically strained between straining and/or gate and corner posts at maximum 30m centres with one end passed through holes and securely tied to posts and other end securely tied to and including eye bolts bolted onto posts; each strand tied at maximum 3m centres to intermediate posts (elsewhere) with and including 2mm galvanised binding wire; the fence covered with and including 50mm mesh chain link 1,8m high netting of 3,15mm diameter galvanised mild steel wire and 0,6m flat wrap razor wire at top strained and secured to posts and straining wires with and including 2mm galvanised binding wire.	m	201		
9	100mm Diameter x 3mm thick galvanised mild steel end or gate post 3,0m long with mushroom cap welded onto top; the post four times holed for straining wires or eye bolts and with 300 x 300 x 6mm galvanised mild steel base plate welded onto bottom end; the post complete with and including one 50mm diameter x 2,8mm thick galvanised mild steel stay 2,4m long with top end flattened for a length of 180mm, holed for and bolted to post with and including M12 galvanised mild steel bolts with nuts and washers including drilling holes through posts and with 200 x 200 x 6mm galvanised mild steel base plate welded onto bottom end of stay including setting up post and stay and embedding in position in concrete bases (elsewhere)	No	7		
10	Ditto, but gate, straining or corner post with one stay	No	6		
11	Ditto, but straining or corner post with two stays	No	4		
12	50mm Diameter x 2,8mm thick galvanised mild steel intermediate post 2,6m long with mushroom cap welded onto top and with 200 x 200 x 6mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	20		
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Gates

The following in matching galvanised mild steel gates

- | | |
|----|--|
| 13 | Extra over fencing for forming single gate 1,1m wide x 2,25m high including all hinges, drop bolts end locking pins, complete. |
| 14 | Extra over fencing for forming sliding gate for 4,8m wide opening x 2,5m high including sliding rail bedded in 300 x 300mm concrete, rollers, wheels, locking pins, etc., complete |

No

1

No

1

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<u>SECTION No. 4</u>			
<u>BILL No. 1</u>			
<u>ELECTRICAL INSTALLATION</u>			
<u>GENERAL</u>			
<u>NOTE:</u>			
Tenderer s are advised to study the Model Preambles for Trades 2008 before pricing this bill			
All provisional sums are nett			
This Bill shall be read in conjunction with the Detailed Electrical Specification as well as the electrical drawings			
The project comprises the supply, delivery, installation, testing commissioning of all the electrical equipment together with other specified in the Detailed Specification.			
The project comprises the supply, delivery, installation, testing commissioning of all the electrical equipment together with other specified in the Detailed Specification.			
The Tenderer shall be deemed to have perused the above-menti document and considered fully conversant with the contents and his price.			
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No allowance has been made in the measurement of conductors lengths at connection points and prices for the measured conductors deemed to be included

All DB's, Switch control boxes and draw boxes shall be of 3CR12 construction.

Conduits described as "fixed" shall be deemed to include for fixing of surfaces, in chases or casting in or building into walls, etc, and include for the above

Price for cables shall be deemed to include installation as well as all cables.

MAIN SUPPLY/ DISTRIBUTION BOARDS/ EARTHING

- 1 Arrange for outage and coordination with electrical maintenance labour to do work after normal working hours. Allow for for the with the supply authority for the additional capacity.

SUM

- 2 Make provision for the amount of R 300 000.00 (Three hundred Rand) for a new Municipality facilities electrical bulk supply to a phase connection, complete with mini substation, connections, commissioning and approved kiosk with bulk supply meter.

Item

300 000.00

- 3 Remove 1 x Existing connection and replace with 1 x Single phase meters.

No

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4	Supply and install a 100A Single Phase kWh meter with program that has been approved by the local supply authorities, program includes all auxiliaries (CT, VT, etc.)	No	1	
5	Construct a new separate earth mat installed at the building edge natural ground level (1.5m). The earth mat will consist of 70mm copper bars and will cover an area of at least 2m x 2m. The bars will form a grid of 400mm x 400mm. All connections will be made using Two round solid copper bars of 70mm ² (the tails) from the mat connected to the Main DB earth bars. The tails will be connected at positions on the mat with a distance more than 1m apart. The mat will be connected into a separate York box at the mat and connected to a single core cable to the Main DB.	No	1	
	<u>DISTRIBUTION BOARDS</u>			
	<i>Supply and install Sub distribution boards (1.6mm 3CR12 sheet metal powder coated - white), complete with sheet metal trays, frames, busbars, provision for additional 30% space, legend cards, circuit breakers (Hydraulic Magnetic), switches, relays, earth leakage units, etc. detailed on the schematic wiring diagrams.</i>			
6	Main Kiosk	No	1	
7	100A 2 Pole 25kA Circuit Breaker.	No	1	
8	50A 2 Pole 10kA Circuit Breaker.	No	1	
9	30A 2 Pole 10kA Circuit Breaker.	No	3	
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10	20A 2 Pole 10kA Circuit Breaker.	No	2		
11	1 Phase + N Class 2 surge protection	No	1		
12	Install 100A Single Phase kWh meter (See Item 1.4)	No	1		
<u>LV CABLES</u>					
<i>All cables to be installed as per specifications, fastened to walls, etc. 3 and 4 Core PVC insulated PVC bedded SWA PVC sheathed SANS 1507-3</i>					
<u>35mm² 3 Core Copper cable.</u>					
13	Supply cable from Municipal Pole to DB-Ground	m	45		
14	35mm² BCC Earth conductor for above	m	45		
<u>16mm² 3 Core Copper cable.</u>					
15	Supply cable from Main Kiosk to DB-3 Classroom block	m	152		
16	Supply cable from Main Kiosk to DB- Ablution 1 & 2	m	82		
17	16mm² BCC Earth conductor for above	m	234		
<u>10mm² 3 Core Copper cable.</u>					
18	Supply cable from Main Kiosk to DB Admin	m	45		
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19	Supply cable from Main Kiosk to DB-6 Classroom block + Store	m	66		
20	Supply cable from Main Kiosk to DB- Ablution New	m	72		
21	10mm ² BCC Earth conductor for above	m	183		
	<u>6mm² 3 Core Copper cable.</u>				
22	Supply cable from Main Kiosk to DB-6 Classroom block	m	32		
23	Supply cable from Main Kiosk to Guard House	m	36		
24	6mm ² BCC Earth conductor for above	m	68		
	<u>LV CABLE TERMINATIONS</u>				
	<i><u>Cable terminations to supply cables and earth continuity conductors, cable glands, lugs and connections at Main DB and SDB's.</u></i>				
25	35mm ² 3 Core Cable (Indoor)	No	2		
26	16mm ² 3 Core Cable (Indoor)	No	4		
27	10mm ² 3 Core Cable (Indoor)	No	6		
28	6mm ² 3 Core Cable (Indoor)	No	4		
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29	35mm ² BCC Earth conductor (Indoor)	No	2		
30	16mm ² BCC Earth conductor (Indoor)	No	4		
31	10mm ² BCC Earth conductor (Indoor)	No	6		
32	6mm ² BCC Earth conductor (Indoor)	No	4		
<u>RETICULATION</u>					
<u>SLEEVES / MAN HOLES / TRUNKING</u>					
<i>Supply and install the following PVC Sleeves including short length jointing, laid in trench (trenching and backfilling measured elsewhere) fittings with "Safe lock" seal ring joints</i>					
<u>SLEEVES</u>					
33	110 mm Diameter PVC sleeve (Install in ground)	m	377		
34	110mm Diameter flexible PVC sleeve install in concrete floor slab casting.	m	45		
35	50 mm Diameter PVC sleeve (Install in ground)	m	150		
36	50mm Diameter flexible PVC sleeve install in concrete floor slab casting.	m	35		
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MAN HOLES

37 Install manholes as per specifications.

No

17

EXCAVATIONS

38 Excavate trenching 700mm deep for cable and sleeves in pick-
Import virgin soil of 100mm below and above cable. Install cabl
100mm above cable. Backfill and compact. Make neat.

m

450

39 Excavate trenching 700mm deep for cable and sleeves in non pic
(Jack hammer). Import virgin soil of 100mm below and above
cable warning tpe 100mm above cable. Backfill and compact.

m

55

40 Excavate trenching 700mm deep and 3m in length for locating
services in pick-able soil. Backfill and compact. Make neat.

No

20

ELECTRICAL CONNECTION

41 Allow to arrange for the isolation of the electrical supply of the
new kiosks and connect new cables.

No

1

FIBRE OPTIC & DATA INSTALLATION

42 Cat5 networking cable, including splicing etc.

m

120

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43	Supply and install 6U data cabinet. Including patch pannels and	No	1		
	<u>INTERCOM</u>				
44	Intercom master station as per specifications	No	1		
45	2 Way intercom as per specifications	No	18		
46	Suitable 2 Way comunication wiring with fire rating of ph-30	m	1 419		
	<u>SIREN</u>				
47	Supply and install school siren for the school. The siren should programmed for a 31 day cycle. Manual operation should also be control panel will be installed at Principals office and speakers/sir around the premesis (2 off)				SUM
48	Speakers/sirens	No	2		
49	Siren Cover/ Sheetmetal Cover	No	2		
50	Required wiring	m	200		
51	Other materials to deliver complete and functional siren system				SUM
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GENERAL / TESTING AND COMMISSIONING

52 Allow for Certificate of Compliance for each building in terms of Occupational and Health Safety Act, OSHACT of 1993.

No

1

53 Compliance with OH SACT : Compiling and implementing of Safe issuing of safety clothes, shoes, gloves etc, as required.

SUM

54 Labelling of all circuits and draw boxes with permanent screw as described in Project Detailed Specifications.

SUM

55 Allow for testing, balancing of Phases and commissioning of the electrical installation - lighting and power

SUM

56 Allow for providing detailed manuals and marked up drawings services installation to the Engineer

SUM

57 Supply and install 35mm locally manufactured padlocks and lock well as master keys.(3 sets) with purpose-made pvc labels to loc all DB's, SDB's and lockable draw boxes.

No

5

CHASE AND MAKE NEAT

58 Chase, install conduit and plaster. Make neat

m

350

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	<u>SECTION No. 4</u>			
	<u>BILL No. 2</u>			
	<u>ELECTRICAL INSTALLATION - 3 CLASSROOM BLOCK</u>			
	<u>3 CLASSROOM BLOCK</u>			
	This Bill shall be read in conjunction with the Detailed Electrical Specification as well as the Electrical Drawings			
	For general Preambles and Specifications see Notes in Section 4 Bill no. 1 Electrical Installation - General			
	<u>MAIN SUPPLY/ DISTRIBUTION BOARDS/ EARTHING</u>			
	<u>Existing</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<i>Supply and install Sub distribution boards (1.6mm 3CR12 sheet powder coated - white), complete with sheet metal trays, frames, busbars, provision for additional 30% space, legend cards, circuit (Hydraulic Magnetic), switches, relays, earth leakage units, etc. detailed on the schematic wiring diagrams.</i>			
1	DB-3 Classroom Block	No	1	
2	30A 2 Pole 6kA Switch Disconnecter	No	1	
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	3 Classroom block			
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3	60A 2 Pole 6kA Earth leakage.	No	1	
4	20A 1 Pole 6kA Circuit Breaker.	No	1	
5	16A 1 Pole 6kA Circuit Breaker.	No	1	
6	1 Phase + N Class 2 surge protection	No	1	
<u>LIGHTNING PROTECTION</u>				
7	The building will be protected against lightning strikes according SANS codes of practice 10199 (2010), 1063 (2014) and 10313 conjunction with SANS 62305-1-2-3-4: 2011 and IEC 62305-2-			SUM
<u>CONDUIT</u>				
<i>Supply and install pvc conduit with support fixings (saddles/couplings/ adaptors), cast in concrete, surface bed screed, fixed to wood, roof members, suspended ceiling, steel, etc., run in roof space, chased and/or fixed in brickwork including bends if required.</i>				
8	20mm diameter galvanized conduit installed surface on wall. (Lig Intercom, Data)	m	94	
9	25mm diameter galvanized conduit installed surface on wall. (So Isolators)	m	35	
<u>CONDUIT ACCESSORIES AND DRAW BOXES</u>				
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Supply and install galvanized conduit accessories, outlet boxes and cover plate to suit number, size or type of entries, fixed onto conduit.

10	100mm x 100mm x 50mm deep box installed in wall	No	10
11	100mm x 50mm x 50mm deep box installed in wall	No	7
12	65mm Round box	No	4
13	85mm x 130mm Fibreglass IP54 York box with glass lid installed	No	1

WIRING

Supply and install wiring for power circuits. All light circuits will be wired with 2.5mm², plug circuits with 2.5mm² and circuits feeding isolators with 2.5mm²

14	1.5mm ² Wiring for light circuits (Red)	m	180
15	1.5mm ² Wiring for light circuits (Black)	m	180
16	1.5mm ² Wiring for light circuits (Green)	m	180
17	2.5mm ² Wiring for plug & isolator circuits (Red)	m	80
18	2.5mm ² Wiring for plug & isolator circuits (Black)	m	80

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19	2.5mm ² Wiring for plug & isolator circuits (Green)	m	80		
	<u>SWITCHES</u>				
	<i>Supply, install and connect switches complete with steel cover white)</i>				
20	Single lever 1 way light switch.	No	3		
21	Day light switch installed in yolk box with glass lid.	No	1		
	<u>SOCKET OUTLETS</u>				
	<i>Supply and install switched socket outlets and isolators, etc. with cover plates fixed to flush box (steel cover plates - colour to match power skirting)</i>				
22	1 x Double 16A Normal socket outlet flush which includes 1 x SANS 164-2 (Euro) socket outlet. (Install new complete with metal cover, white with screws)	No	3		
	<u>LUMINARIES</u>				
	<i>Supply and install luminaries fixed to structures e.g.: concrete ceiling; Rhino board ceiling and walls. Price shall include lamps and the connecting thereof. All fittings will be fitted with an electronic ballast.</i>				
23	20 Watt LED, 274mm x 274mm x 104mm square bulkhead with diffuser.	No	5		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 2				
	3 Classroom block				
	SEPTEMBER 2022				

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Bill No. 2

3 Classroom block

COLLECTION

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Bill No. 2

3 Classroom block

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 4</u>			
	<u>BILL No. 3</u>			
	<u>ELECTRICAL INSTALLATION - 6 CLASSROOM BLOCK</u>			
	This Bill shall be read in conjunction with the Detailed Electrical Specification as well as the Electrical Drawings			
	For general Preambles and Specifications see Notes in Section 4 Bill no. 1 Electrical Installation - General			
	<u>MAIN SUPPLY/ DISTRIBUTION BOARDS/ EARTHING</u>			
	<u>Existing</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<i>Supply and install Sub distribution boards (1.6mm 3CR12 sheet powder coated - white), complete with sheet metal trays, frames, busbars, provision for additional 30% space, legend cards, circuit (Hydraulic Magnetic), switches, relays, earth leakage units, etc. detailed on the schematic wiring diagrams.</i>			
1	DB-6 Classroom Block + Store	No	1	
2	30A 2 Pole 6kA Switch Disconnecter	No	1	
3	60A 2 Pole 6kA Earth leakage.	No	1	
	Carried to Collection			R
	Section No. 4 Bill No. 3 6 Classroom block & Store			
	SEPTEMBER 2022			

	<u>Supply and install galvanized conduit accessories, outlet boxes and cover plate to suit number, size or type of entries, fixed onto conduit.</u>				
10	100mm x 100mm x 50mm deep box installed in wall	No	12		
11	100mm x 50mm x 50mm deep box installed in wall	No	8		
12	65mm Round box	No	16		
13	85mm x 130mm Fibreglass IP54 York box with glass lid installed	No	1		
	<u>WIRING</u>				
	<u>Supply and install wiring for power circuits. All light circuits will be wired with 2.5mm², plug circuits with 2.5mm² and circuits feeding isolators with 2.5mm²</u>				
14	1.5mm ² Wiring for light circuits (Red)	m	275		
15	1.5mm ² Wiring for light circuits (Black)	m	275		
16	1.5mm ² Wiring for light circuits (Green)	m	275		
17	2.5mm ² Wiring for plug & isolator circuits (Red)	m	180		
18	2.5mm ² Wiring for plug & isolator circuits (Black)	m	180		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 3				
	6 Classroom block & Store				
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19	2.5mm ² Wiring for plug & isolator circuits (Green)	m	180		
	<u>SWITCHES</u>				
	<i>Supply, install and connect switches complete with steel cover white)</i>				
20	Single lever 1 way light switch.	No	8		
21	Day light switch installed in yolk box with glass lid.	No	1		
	<u>SOCKET OUTLETS</u>				
	<i>Supply and install switched socket outlets and isolators, etc. with cover plates fixed to flush box (steel cover plates - colour to match power skirting)</i>				
22	1 x Double 16A Normal socket outlet flush which includes 1 x SANS 164-2 (Euro) socket outlet. (Install new complete with metal cover, white with screws)	No	6		
	<u>LUMINARIES</u>				
	<i>Supply and install luminaries fixed to structures e.g.: concrete ceiling; Rhino board ceiling and walls. Price shall include lamps and the connecting thereof. All fittings will be fitted with an electronic ballast.</i>				
23	20 Watt LED, 274mm x 274mm x 104mm square bulkhead with diffuser.	No	10		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 3				
	6 Classroom block & Store				
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Section No. 4

Bill No. 3

6 Classroom block & Store

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Section No. 4

Bill No. 3

6 Classroom block & Store

SEPTEMBER 2022

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 4</u>			
	<u>BILL No. 3</u>			
	<u>ELECTRICAL INSTALLATION - 6 CLASSROOM BLOCK</u>			
	This Bill shall be read in conjunction with the Detailed Electrical Specification as well as the Electrical Drawings			
	For general Preambles and Specifications see Notes in Section 4 Bill no. 1 Electrical Installation - General			
	<u>MAIN SUPPLY/ DISTRIBUTION BOARDS/ EARTHING</u>			
	<u>Existing</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<i>Supply and install Sub distribution boards (1.6mm 3CR12 sheet powder coated - white), complete with sheet metal trays, frames, busbars, provision for additional 30% space, legend cards, circuit (Hydraulic Magnetic), switches, relays, earth leakage units, etc. detailed on the schematic wiring diagrams.</i>			
1	DB-6 Classroom Block	No	1	
2	30A 2 Pole 6kA Switch Disconnecter	No	1	
3	60A 2 Pole 6kA Earth leakage.	No	1	
	Carried to Collection			R
	Section No. 4 Bill No. 4 6 Classroom block SEPTEMBER 2022			

No

2

5 16A 1 Pole 6kA Circuit Breaker.

No

3

6	1 Phase + N Class 2 surge protection
---	--------------------------------------

No

1

7	The building will be protected against lightning strikes according SANS codes of practice 10199 (2010), 1063 (2014) and 10313 conjunction with SANS 62305-1-2-3-4: 2011 and IEC 62305-2-
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SUM

Supply and install pvc conduit with support fixings (saddles/couplings/ adaptors), cast in concrete, surface bed screed, fixed to wood, roof members, suspended ceiling, steel, etc., run in roof space, chased and/or fixed in brickwork including bends if required.

8	20mm diameter galvanized conduit installed surface on wall. (Lig Intercom, Data)
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m

432

9	25mm diameter galvanized conduit installed surface on wall. (So Isolators)
---	--

m

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CONDUIT ACCESSORIES AND DRAW BOXES

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6 Classroom block

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	<u>Supply and install galvanized conduit accessories, outlet boxes and cover plate to suit number, size or type of entries, fixed onto conduit.</u>				
10	100mm x 100mm x 50mm deep box installed in wall	No	12		
11	100mm x 50mm x 50mm deep box installed in wall	No	6		
12	65mm Round box	No	16		
13	85mm x 130mm Fibreglass IP54 York box with glass lid installed	No	1		
	<u>WIRING</u>				
	<u>Supply and install wiring for power circuits. All light circuits will be wired with 2.5mm², plug circuits with 2.5mm² and circuits feeding isolators with 2.5mm²</u>				
14	1.5mm ² Wiring for light circuits (Red)	m	250		
15	1.5mm ² Wiring for light circuits (Black)	m	250		
16	1.5mm ² Wiring for light circuits (Green)	m	250		
17	2.5mm ² Wiring for plug & isolator circuits (Red)	m	180		
18	2.5mm ² Wiring for plug & isolator circuits (Black)	m	180		
	Carried to Collection			R	
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19	2.5mm ² Wiring for plug & isolator circuits (Green)	m	180		
	<u>SWITCHES</u>				
	<u>Supply, install and connect switches complete with steel cover white)</u>				
20	Single lever 1 way light switch.	No	6		
21	Day light switch installed in yolk box with glass lid.	No	1		
	<u>SOCKET OUTLETS</u>				
	<u>Supply and install switched socket outlets and isolators, etc. with cover plates fixed to flush box (steel cover plates - colour to match power skirting)</u>				
22	1 x Double 16A Normal socket outlet flush which includes 1 x SANS 164-2 (Euro) socket outlet. (Install new complete with metal cover, white with screws)	No	6		
	<u>LUMINARIES</u>				
	<u>Supply and install luminaries fixed to structures e.g.: concrete ceiling; Rhino board ceiling and walls. Price shall include lamps and the connecting thereof. All fittings will be fitted with an electronic ballast.</u>				
23	20 Watt LED, 274mm x 274mm x 104mm square bulkhead with diffuser.	No	10		
	Carried to Collection			R	
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6 Classroom block

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6 Classroom block

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 4</u>			
	<u>BILL No. 4</u>			
	<u>ELECTRICAL INSTALLATION - ADMINISTRATION BLOCK</u>			
	This Bill shall be read in conjunction with the Detailed Electrical Specification as well as the Electrical Drawings			
	For general Preambles and Specifications see Notes in Section 4 Bill no. 1 Electrical Installation - General			
	<u>MAIN SUPPLY/ DISTRIBUTION BOARDS/ EARTHING</u>			
	<u>Existing</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<i>Supply and install Sub distribution boards (1.6mm 3CR12 sheet powder coated - white), complete with sheet metal trays, frames, busbars, provision for additional 30% space, legend cards, circuit (Hydraulic Magnetic), switches, relays, earth leakage units, etc. detailed on the schematic wiring diagrams.</i>			
1	DB-Admin	No	1	
2	50A 2 Pole 6kA Switch Disconnecter	No	1	
3	60A 2 Pole 6kA Earth leakage.	No	2	
	Carried to Collection			R
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4	30A 2 Pole 6kA Circuit Breaker.	No	1		
5	20A 2 Pole 6kA Circuit Breaker.	No	5		
6	20A 1 Pole 6kA Circuit Breaker.	No	8		
7	16A 1 Pole 6kA Circuit Breaker.	No	6		
8	1 Phase + N Class 2 surge protection	No	1		
<u>LIGHTNING PROTECTION</u>					
9	The building will be protected against lightning strikes according SANS codes of practice 10199 (2010), 1063 (2014) and 10313 conjunction with SANS 62305-1-2-3-4: 2011 and IEC 62305-2-			SUM	
<u>CONDUIT</u>					
<i>Supply and install pvc conduit with support fixings (saddles/couplings/ adaptors), cast in concrete, surface bed screed, fixed to wood, roof members, suspended ceiling, steel, etc., run in roof space, chased and/or fixed in brickwork including bends if required.</i>					
10	20mm diameter galvanized conduit installed surface on wall. (Lig Intercom, Data)	m	321		
11	25mm diameter galvanized conduit installed surface on wall. (So Isolators)	m	184		
Carried to Collection				R	
Section No. 4 Bill No. 5 Administration block SEPTEMBER 2022					

CONDUIT ACCESSORIES AND DRAW BOXES

Supply and install galvanized conduit accessories, outlet boxes and cover plate to suit number, size or type of entries, fixed onto conduit.

12	100mm x 100mm x 50mm deep box installed in wall	No	22
13	100mm x 50mm x 50mm deep box installed in wall	No	24
14	65mm Round box	No	35
15	85mm x 130mm Fibreglass IP54 York box with glass lid installed	No	1

WIRING

Supply and install wiring for power circuits. All light circuits will be wired with 2.5mm², plug circuits with 2.5mm² and circuits feeding isolators with 2.5mm²

16	1.5mm ² Wiring for light circuits (Red)	m	590
17	1.5mm ² Wiring for light circuits (Black)	m	590
18	1.5mm ² Wiring for light circuits (Green)	m	590
19	2.5mm ² Wiring for plug & isolator circuits (Red)	m	885

Carried to Collection

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R

20	2.5mm ² Wiring for plug & isolator circuits (Black)	m	885		
21	2.5mm ² Wiring for plug & isolator circuits (Green)	m	885		
<u>ISOLATORS</u>					
22	30A Isolator 2 Pole	No	1		
23	20A Isolator 2 Pole	No	5		
24	Weather proof yolk box for isolators	No	2		
<u>SWITCHES</u>					
<i><u>Supply, install and connect switches complete with steel cover white)</u></i>					
25	Single lever 1 way light switch.	No	23		
26	Two lever 2 way light switch.	No	2		
27	Day light switch installed in yolk box with glass lid.	No	1		
<u>POWER SKIRTING</u>					
Carried to Collection					
Section No. 4 Bill No. 5 Administration block SEPTEMBER 2022				R	

Supply and install power skirting complete with covers, fixed to brickwork or concrete.

28 Power Skirting (White, Powder Coated Metal, 2 channel, 2 cover x 55mm).

m 55

29 Power Skirting End Caps (White Powder Coated Metal)

No 3

30 Power Skirting, 2 channel, 90 degree bends (White Powder Coat)

No 5

POWER SKIRTING ACCESSORIES

31 16A 3 Pin Socket outlet in power skirting complete with cradle brackets.

No 16

32 16A 3 Pin Dedicated socket outlet in power skirting complete with other brackets.

No 16

33 16A 2 Pin Socket outlet in power skirting complete with cradle brackets.

No 16

34 RJ45 Socket outlet installed in power skirting complete with cradle brackets.

No 8

35 RJ11 Socket outlet installed in power skirting complete with cradle brackets.

No 8

SOCKET OUTLETS

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36	1 x Double 16A Normal socket outlet flush which includes 1 x SANS 164-2 (Euro) socket outlet. (Install new complete with metal cover, white with screws)	No	17
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Supply and install luminaries fixed to structures e.g.: concrete ceiling; Rhino board ceiling and walls.
Price shall include lamps and the connecting thereof.
All fittings will be fitted with an electronic ballast.

37	20 Watt LED, 274mm x 274mm x 104mm square bulkhead with diffuser.
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38	1572 x 96 x 53mm, 2 x 22W LED, open channel surface mount telescopic holders	No	39
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39	220V Red Indication light, wall mounted 80mm Diameter	No	1
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40	Ensure that all metal pipes, roofing, structures etc are bonded Also provide a separate 1.2m earth peg for DB. See details in sp
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SUM

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CHASE AND MAKE NEAT

41 Chase, install conduit and plaster. Make neat

m

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HAND DRYERS

42 2000W industrial quality stainless steel hand blow dryer installed
toilet area's

No

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>SECTION No. 4</u>			
	<u>BILL No. 5</u>			
	<u>ELECTRICAL INSTALLATION - ABLUTIONS 1 & 2</u>			
	This Bill shall be read in conjunction with the Detailed Electrical Specification as well as the Electrical Drawings			
	For general Preambles and Specifications see Notes in Section 4 Bill no. 1 Electrical Installation - General			
	<u>MAIN SUPPLY/ DISTRIBUTION BOARDS/ EARTHING</u>			
	<u>Existing</u>			
	<u>DISTRIBUTION BOARDS</u>			
	<i>Supply and install Sub distribution boards (1.6mm 3CR12 sheet powder coated - white), complete with sheet metal trays, frames, busbars, provision for additional 30% space, legend cards, circuit breakers (Hydraulic Magnetic), switches, relays, earth leakage units, etc. detailed on the schematic wiring diagrams.</i>			
1	DB-Ablutions 1	No	1	
2	20A 2 Pole 6kA Switch Disconnecter	No	1	
3	20A 2 Pole 6kA Circuit Breaker.	No	1	
4	16A 1 Pole 6kA Circuit Breaker.	No	1	
	Carried to Collection			R
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	Bill No. 6			
	Ablutions 1 & 2			
	SEPTEMBER 2022			

5	1 Phase + N Class 2 surge protection	No	1		
6	DB-Ablutions 2	No	1		
7	20A 2 Pole 6kA Switch Disconnecter	No	1		
8	16A 1 Pole 6kA Circuit Breaker.	No	1		
9	1 Phase + N Class 2 surge protection	No	1		
<u>LV CABLES</u>					
<i>All cables to be installed as per specifications, fastened to walls, etc. 3 and 4 Core PVC insulated PVC bedded SWA PVC sheathed SANS 1507-3</i>					
<u>4mm² 3 Core Copper cable.</u>					
10	Supply cable from Ablution 1 to Ablution 2	m	15		
11	4mm ² BCC Earth conductor for above	m	15		
<u>LV CABLE TERMINATIONS</u>					
<i>Cable terminations to supply cables and earth continuity conductors, cable glands, lugs and connections at Main DB and SDB's.</i>					
12	4mm ² 3 Core Cable (Indoor)	No	4		
Carried to Collection				R	
Section No. 4 Bill No. 6 Ablutions 1 & 2 SEPTEMBER 2022					

13	4mm ² BCC Earth conductor (Indoor)	No	2	
	<u>LIGHTNING PROTECTION</u>			
14	The building will be protected against lightning strikes according SANS codes of practice 10199 (2010), 1063 (2014) and 10313 conjunction with SANS 62305-1-2-3-4: 2011 and IEC 62305-2-			SUM
	<u>CONDUIT</u>			
	<i>Supply and install pvc conduit with support fixings (saddles/couplings/ adaptors), cast in concrete, surface bed screed, fixed to wood, roof members, suspended ceiling, steel, etc., run in roof space, chased and/or fixed in brickwork including bends if required.</i>			
15	20mm diameter galvanized conduit installed surface on wall. (Lig Intercom, Data)	m	50	
	<u>CONDUIT ACCESSORIES AND DRAW BOXES</u>			
	<i>Supply and install galvanized conduit accessories, outlet boxes and cover plate to suit number, size or type of entries, fixed onto conduit.</i>			
16	100mm x 50mm x 50mm deep box installed in wall	No	2	
17	65mm Round box	No	8	
	<u>WIRING</u>			
	Carried to Collection			R
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	<u>Supply and install wiring for power circuits. All light circuits will be wired with 2.5mm², plug circuits with 2.5mm² and circuits feeding isolators with 2.5mm²</u>				
18	1.5mm ² Wiring for light circuits (Red)	m	65		
19	1.5mm ² Wiring for light circuits (Black)	m	65		
20	1.5mm ² Wiring for light circuits (Green)	m	65		
	<u>SWITCHES</u>				
	<u>Supply, install and connect switches complete with steel cover white)</u>				
21	Single lever 1 way light switch.	No	2		
22	Day light switch installed in york box with glass lid.	No	1		
	<u>LUMINARIES</u>				
	<u>Supply and install luminaries fixed to structures e.g.: concrete ceiling; Rhino board ceiling and walls. Price shall include lamps and the connecting thereof. All fittings will be fitted with an electronic ballast.</u>				
23	20 Watt LED, 274mm x 274mm x 104mm square bulkhead with diffuser.	No	8		
24	1572 x 96 x 53mm, 2 x 22W LED, open channel surface mount guard and telescopic holders	No	8		
	Carried to Collection			R	
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	Ablutions 1 & 2				
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EARTHING

25 Ensure that all metal pipes, roofing, structures etc are bonded
Also provide a separate 1.2m earth peg for DB. See details in sp

SUM

CHASE AND MAKE NEAT

26 Chase, install conduit and plaster. Make neat

m

50

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Bill No. 6
Ablutions 1 & 2

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Bill No. 6

Ablutions 1 & 2

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Ablutions 1 & 2

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SECTION SUMMARY - ELECTRICAL INSTALLATION

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION No. 5</u>			
<u>BILL No. 1</u>			
<u>PROVISIONAL SUMS</u>			
NOTE:			
Tenderer s are advised to study the Model Preambles for Trades 2008 before pricing this bill			
All provisional sums are nett			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances			
Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned			
Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
<u>Profit</u>			
Where stated, the contractor may allow for profit if required			
<u>General attendance on nominated/selected subcontractors</u>			
The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
Carried to Collection			R
Section No. 5 Bill No. 1 Provisional Sums			
SEPTEMBER 2022			

1	The services as set out in clause B9.1 of the Preliminaries			
2	Making good in all trades and cleaning down and removal of rubbish on completion			
<u>Special attendance on nominated/selected subcontractors</u>				
Where stated special attendance will be described in detail in the Schedule for Variables in the Preliminaries for the services as set out in clause B9.2				
<u>Builder's work</u>				
Builder's work in connection with specialist services is given elsewhere in these bills of quantities				
<u>BUDGETARY ALLOWANCES</u>				
<u>COMMUNITY LIASON OFFICER</u>				
1	Allow the sum of R 120,000-00 (One hundred and twenty thousand rand) for the appointment of a community liason officer for the full duration of the project to be expended in whole or part as per the discretion of the Principal Agent	Item		120 000.00
<u>PROVISIONAL SUMS</u>				
<u>GAS INSTALLATION</u>				
2	Provide the sum of R 50,000.00 (Fifty thousand Rand) for a gas installation to be executed by a firm of registered specialists	Item		50 000.00
3	Allow for profit	Item		
4	Allow for attendance	Item		
<u>TEMPORARY FACILITIES</u>				
5	Provide the sum of R 135,000.00 (One hundred and thirty five thousand Rand) for the provision of temporary ablution facilities during the construction phase of the project	Item		135 000.00
6	Allow for profit	Item		
7	Allow for attendance	Item		
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Provisional Sums

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	SUB TOTAL		R
	<u>CONTINGENCIES</u>		
	Allow 5% (Five percent) for contingencies to be expended in whole or deducted in part as per the discretion of the Employer/Principal Agent		R
	SUB TOTAL		R
	VALUE ADDED TAX: 15%		R
	CARRIED TO FORM OF OFFER AND ACCEPTANCE C1.1		R
	SEPTEMBER 2022		