

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.1</u></p> <p><u>BILL No. 1</u></p> <p><u>PRELIMINARIES</u></p>			
	<p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (March 2005 Edition) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The ASQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractor's are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A signifying "not applicable"</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>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 General Preambles will be entertained</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Preliminaries & Generals Bill No. 1 Preliminaries & Generals</p>		R	

	<p align="center">Brought Forward</p> <p>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</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles</p> <p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions</u></p> <p>1 Clause 1.0 - Definitions and interpretation</p> <p>F:..... V:..... T:.....</p> <p><u>Objectives and preparations</u></p> <p>2 Clause 2.0 - Offer, Acceptance and Performance obligations</p> <p>F:..... V:..... T:.....</p> <p>3 Clause 3.0 - Documents</p> <p>F:..... V:..... T:.....</p> <p>4 Clause 4.0 - Design Responsibility</p> <p>F:..... V:..... T:.....</p> <p>5 Clause 5.0 - Employer's Agents</p> <p>F:..... V:..... T:.....</p>		R	
	<p align="center">Carried Forward</p> <p>Preliminaries & Generals Bill No. 1 Preliminaries & Generals</p>		R	

Brought Forward			R	
6	<p>Clause 6.0 - Contractor's Site Representative</p> <p>F:..... V:..... T:.....</p>	Item		
7	<p>Clause 7.0 - Compliance with Laws and Regulations</p>	Item		
8	<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, 2003 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 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>F:..... V:..... T:.....</p>			
9	<p>Clause 8.0 - Works Risk</p> <p>F:..... V:..... T:.....</p>	Item		
10	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item		
11	<p>Clause 10.0 - General Insurances</p> <p>F:..... V:..... T:.....</p>	Item		
12	<p>Clause 11.0 - Special Insurances</p> <p>F:..... V:..... T:.....</p>	Item		
Carried Forward			R	
<p>Preliminaries & Generals Bill No. 1 Preliminaries & Generals</p>				

Brought Forward			R	
13	Clause 12.0 - Effecting Insurances F:..... V:..... T:.....	Item		
14	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
15	Clause 14.0 - Security F:..... V:..... T:.....	Item		
<u>Execution</u>				
16	Clause 15.0 - Preparation for and Execution of the Works F:..... V:..... T:.....	Item		
17	Clause 16.0 - Site and Access F:..... V:..... T:.....	Item		
18	Clause 17.0 - Contract Instructions F:..... V:..... T:.....	Item		
19	Clause 18.0 - Setting Out of the Works The Contractor shall notify the Principal Agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of such encroachments F:..... V:..... T:.....	Item		
Carried Forward			R	
Preliminaries & Generals Bill No. 1 Preliminaries & Generals				

Brought Forward			R	
20	<p>Clause 19.0 - Temporary Works and Plant The Contractor shall provide, maintain and remove on completion all perimeter scaffolding required by the Contractor for the due and proper fulfilment of the works</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 20.0 - Nominated Subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 31.0 - Selected Subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 22.0 - Employer's Direct Contractors</p> <p>F:..... V:..... T:.....</p>	Item		
24	<p>Clause 23.0 - Contractor's Domestic subcontractors</p> <p>F:..... V:..... T:.....</p> <p><u>Completion</u></p>	Item		
25	<p>Clause 24.0 - Practical Completion</p> <p>F:..... V:..... T:.....</p>	Item		
26	<p>Clause 25.0 - Works Completion</p> <p>F:..... V:..... T:.....</p>	Item		
27	<p>Clause 26.0 - Final Completion</p> <p>F:..... V:..... T:.....</p>	Item		
Carried Forward			R	
<p>Preliminaries & Generals Bill No. 1 Preliminaries & Generals</p>				

	Brought Forward		R	
28	<p>Clause 27.0 - Latent Defects Liability Period</p> <p>F:..... V:..... T:.....</p>	Item		
29	<p>Clause 28.0 - Sectional Completion</p> <p>F:..... V:..... T:.....</p>	Item		
30	<p>Clause 29.0 - Revision of Date for Practical Completion</p> <p>Clause 29.3 - The removal and replacement of materials and / or workmanship which do not conform to specifications or drawing shall not constitute grounds for the extension of the construction period not the adjustment of contract value</p> <p>F:..... V:..... T:.....</p>	Item		
31	<p>Clause 30.0 - Penalty for Late or Non-Completion</p> <p>F:..... V:..... T:.....</p> <p><u>Payment</u></p>	Item		
32	<p>Clause 31.0 - Interim Payment to the Contractor</p> <p>The inclusion of materials and goods stored off site in the amount authorized for payment in terms of Clause 31.4 shall be at the sole discretion of the Principal Agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable</p> <p>F:..... V:..... T:.....</p>	Item		
33	<p>Clause 32.0 - Adjustment to the Contact Value</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor</p>	Item		
	Carried Forward		R	
	<p>Preliminaries & Generals</p> <p>Bill No. 1</p> <p>Preliminaries & Generals</p>			

	Brought Forward		R	
	F:..... V:..... T:.....			
34	Clause 33.0 - Recovery of Expense and Loss	Item		
	F:..... V:..... T:.....			
35	Clause 34.0 - Final Account and Final Payment	Item		
	F:..... V:..... T:.....			
36	Clause 35.0 - Payment to Other Parties	Item		
	F:..... V:..... T:.....			
	<u>Termination</u>			
37	Clause 36.0 - Termination by Employer - Contractor's Default	Item		
	F:..... V:..... T:.....			
38	Clause 37.0 - Termination by Employer - Loss and Damage	Item		
	F:..... V:..... T:.....			
39	Clause 38.0 - Termination by Contractor - Employer's Default	Item		
	F:..... V:..... T:.....			
40	Clause 39.0 - Termination - Cessation of Works	Item		
	F:..... V:..... T:.....			
	Carried Forward		R	
	Preliminaries & Generals Bill No. 1 Preliminaries & Generals			

	Brought Forward		R	
	<u>Dispute</u>			
41	Clause 40.0 - Dispute Settlement F:..... V:..... T:.....	Item		
	<u>Contract Agreement</u>			
42	Clause 41.0 - Post tender provisions The required post tender information shall be inserted in the post tender provisions after consultation with the contractor F:..... V:..... T:.....	Item		
43	Clause 42.0 - Contractual agreement The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the contractual agreement for signature of the agreement by the contracting parties F:..... V:..... T:.....	Item		
	<u>SECTION B : PRELIMINARIES</u>			
	<u>Definitions and interpretation</u>			
44	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item		
	<u>Documents</u>			
45	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
46	Clause 2.2 - Provisional bills of quantities	Item		
	Carried Forward		R	
	Preliminaries & Generals Bill No. 1 Preliminaries & Generals			

	Brought Forward		R	
	F:..... V:..... T:.....			
47	Clause 2.3 - Availability of Construction Documentation	Item		
	F:..... V:..... T:.....			
	<u>Previous work and adjoining properties</u>			
48	Clause 3.1 - Previous work - Dimensional Accuracy	Item		
	F:..... V:..... T:.....			
49	Clause 3.2 - Previous work - Defects	Item		
	F:..... V:..... T:.....			
50	Clause 3.3 - Inspection of Adjoining Properties	Item		
	F:..... V:..... T:.....			
	<u>Samples, Shop Drawings and Manufacturer's Instructions</u>			
51	Clause 4.1 - Samples of Materials	Item		
	F:..... V:..... T:.....			
52	Clause 4.2 - Workmanship Samples	Item		
	F:..... V:..... T:.....			
53	Clause 4.3 - Shop Drawings	Item		
	F:..... V:..... T:.....			
54	Clause 4.4 - Compliance with Manufacturer's Instructions	Item		
	Carried Forward		R	
	Preliminaries & Generals Bill No. 1 Preliminaries & Generals			

	Brought Forward		R	
	F:..... V:..... T:.....			
	<u>Deposits and Fees</u>			
55	Clause 5.1 - Deposits and Fees	Item		
	F:..... V:..... T:.....			
	<u>Temporary Services</u>			
56	Clause 6.1 - Water	Item		
	F:..... V:..... T:.....			
57	Clause 6.2 - Electricity	Item		
	F:..... V:..... T:.....			
58	Clause 6.3 - Telecommunication Equipment	Item		
	F:..... V:..... T:.....			
59	Clause 6.4 - Ablution Facilities	Item		
	F:..... V:..... T:.....			
	<u>Prime Cost Amounts</u>			
60	Clause 7.1 - Responsibility for Prime Cost Amounts	Item		
	<u>Special Attendance on Subcontractors</u>			
61	Clause 8.1 - Special Attendance	Item		
	F:..... V:..... T:.....			
	Carried Forward		R	
	Preliminaries & Generals Bill No. 1 Preliminaries & Generals			

Brought Forward			R	
<u>General</u>				
62	Clause 9.1 - Protection of the Works F:..... V:..... T:.....	Item		
63	Clause 9.2 - Protection / Isolation of Existing / Sectionally Occupied Works F:..... V:..... T:.....	Item		
64	Clause 9.3 - Security of the Works F:..... V:..... T:.....	Item		
65	Clause 9.4 - Notice Before Covering Work F:..... V:..... T:.....	Item		
66	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item		
67	Clause 9.6 - Environmental Disturbance F:..... V:..... T:.....	Item		
68	Clause 9.7 - Works Cleaning and Clearing F:..... V:..... T:.....	Item		
69	Clause 9.8 - Vermin F:..... V:..... T:.....	Item		
70	Clause 9.9 - Overhand Work	Item		
Carried Forward			R	
Preliminaries & Generals Bill No. 1 Preliminaries & Generals				

	Brought Forward		R	
F:..... V:..... T:.....				
<u>SECTION C : SPECIFIC PRELIMINARIES</u>				
<u>Contract Price Adjustment Provisions</u>				
71 Bidders are advised that this Contract shall be a Fixed Price Contract and shall NOT be subject to the Contract Price Adjustment Provisions (CPAP) or any other escalation formula and therefore bidders are to allow for any increases (except any variations in the rate of Value Added Tax) in cost of labour, materials, transport, etc	Item			
F:..... V:..... T:.....				
<u>Site Instructions</u>				
72 Site Instructions issued on site are to be recorded in triplicate in a site instruction book which is maintained on site by the contractor	Item			
F:..... V:..... T:.....				
<u>Warranties for Material and Workmanship</u>				
73 Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on certified completion of the contract.				
The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so.				
The warranty will not be enforced if the work is damaged by defects in the construction of the building, in which case the responsibility for replacement shall rest entirely with the contractor	Item			
<u>Carried Forward</u>				
Preliminaries & Generals Bill No. 1 Preliminaries & Generals			R	

Brought Forward			R	
F:..... V:..... T:.....				
<u>Co-operation of the Contractor for Cost Management</u>				
74	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget			
75	The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments / reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors	Item		
F:..... V:..... T:.....				
<u>Confidentiality</u>				
76	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works. No information regarding this project shall be published or disclosed without the prior written consent of the employer	Item		
F:..... V:..... T:.....				
Carried Forward			R	
Preliminaries & Generals Bill No. 1 Preliminaries & Generals				

Brought Forward			R	
<u>Testing of Windows for Watertightness</u>				
77	Each window shall be tested for water tightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure in the hosepipe shall be boosted by means of compressed air or other approved means F:..... V:..... T:.....	Item		
<u>SUMMARY OF CATEGORIES</u>				
78	Category : Fixed F:	Item		
79	Category : Value V :	Item		
80	Category : Time T :	Item		
Carried to Final Summary			R	
Preliminaries & Generals Bill No. 1 Preliminaries & Generals				

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL No. 1</u>			
<u>ALTERATIONS</u>			
<u>PREAMBLES</u>			
<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
When the word 'Removing' is mentioned in a description it is to mean that the contractor is to remove the item that is being referred to and dumped at a suitable site by the contractor			
<u>REMOVAL OF EXISTING WORK</u>			
<u>Break up and remove mass concrete:</u>			
1	Concrete Apron	m3	42
2	Concrete walkway	m3	62
<u>Taking out and removing doors, windows, etc from brickwork</u>			
3	Single security gate exceeding 2,5m2	No	25
4	Single timber door size 813x2032mm including frames	No	25
<u>DEMOLITION WORK</u>			
Carried Forward			R
Building Work Bill No. 1 Alterations			

Brought Forward				R	
<u>Demolish existing building including disposal of all rubble and old materials to a site to be located by the contractor. All work to be done by specialists. Weigh bridge certificates required as proof that the old materials were disposed off safely. Buildings are generally built of asbestos/IBR/Metal roof sheeting on masonry walls.</u>					
5	Pit Toilets - BLOCK F	m2	11		
6	Pit Toilets - BLOCK G	m2	4		
7	Pit Toilets - BLOCK H	m2	56		
8	Pit Toilets - BLOCK I	m2	8		
9	Pit Toilets - BLOCK J	m2	32		
10	Classroom - BLOCK N (Might require Amafa)	m2	292		
<u>REMOVAL OF ROOF COVERING AND TRUSSES</u>					
<u>Take down and remove asbestos/metal roof covering, remove all trusses and roof timbers from double pitched roofs</u>					
11	Remove roof covering, roof timber and ceilings	m2	1 132		
<u>Break down walls to prepare for new roofs and remove all rubble to a dumping site to be located by the contractor.</u>					
12	Beamfilling out of brick/block wall < 230mm thick.	m2	77		
13	Four courses of one brickwall	m2	168		
14	Two courses of M150 concrete block wall	m2	99		
<u>STITCHING CRACKS</u>					
Carried Forward				R	
Building Work Bill No. 1 Alterations					

Brought Forward			R	
<u>Breaking out for forming horizontal openings.</u>				
15	Cut through wall and form a horizontal opening to take 75 x 150mm lintel in stitching vertical cracks including plastering over with mortar.	m	543	
16	Form a "V" shaped groove along vertical cracks and plaster over.	m	543	
<u>REPLACE EXISTING FENCING</u>				
17	Take down and remove existing weld mesh fence and posts.	m	306	
Carried Forward to Summary of Section No. 2			R	
Building Work				
Bill No. 1				
Alterations				

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Levels of Site</u></p> <p>Contractor is to prepare the platforms of each building before excavations of foundations occurs as costs of extra foundations and reducing levels within the buildings envelope will not be entertained at a later date and will be at the contractor's cost</p> <p><u>EARTHWORKS</u></p> <p><u>EXCAVATION, FILLING, ETC</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Building Work Bill No. 2 Earthworks</p>		R	

	Brought Forward			R	
	<u>Excavation in earth not exceeding 2m deep including setting aside for later re-use or removal</u>				
1	Reduced levels under floors	m3	29		
2	Trenches	m3	62		
3	Pits	m3	269		
	<u>Excavation in earth exceeding 2m but not exceeding 4m deep including setting aside for later re-use or removal</u>				
4	Trenches in pits	m3	20		
5	Trenches in pits	m3	20		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
6	Intermediate material	m3	36		
7	Hard rock	m3	18		
	<u>Extra over all excavations for carting away</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	243		
	<u>Risk of collapse of excavations</u>				
9	Sides of trench excavations not exceeding 1,5m deep	m2	176		
10	Sides of bulk excavations exceeding 1,5m deep	m2	232		
	<u>Keeping excavations free of water</u>				
11	Keeping excavations free of all water other than subterranean water		Item		
	<u>FILLING.ETC</u>				
	Carried Forward			R	
	Building Work Bill No. 2 Earthworks				

Brought Forward				R	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>					
12	To trenches, holes, etc	m3	30		
13	Soilcrete(8% cement and soil mix) filled around pit lining walls and compacted.	m3	92		
<u>Gravel filling (G5) supplied by the contractor compacted to 95% Mod AASHTO density in 150mm layers</u>					
14	Under floors, steps, paving, etc	m3	28		
<u>River sand filling supplied by the contractor</u>					
15	Under floors etc	m3	7		
<u>Compaction of surfaces</u>					
16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	258		
<u>Prescribed density test on filling</u>					
17	"Modified AASHTO Density" test	No	25		
<u>SOIL POISONING</u>					
<u>Soil insecticide in accordance with SANS 5859</u>					
18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	190		
19	To bottoms and sides of trenches etc	m2	245		
Carried Forward to Summary of Section No. 2				R	
Building Work					
Bill No. 2					
Earthworks					

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p><u>Expansion Joints</u></p> <p>A surface bed that exceeds 25 meters squared, poured in a single panel must have expansion joints fitted</p> <p><u>Formwork</u></p> <p>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</p> <p>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.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Building Work Bill No. 3 Concrete, Formwork & Reinforcement</p>		R	

Brought Forward			R	
Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described				
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
<u>UNREINFORCED CONCRETE</u>				
<u>10MPa/19mm concrete</u>				
1	50mm Thick surface blinding under footings and bases	m3	7	
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa/19mm concrete</u>				
2	Strip footings	m3	37	
3	Surface beds on waterproofing	m3	14	
4	In pit base slab.	m3	20	
5	In pit suspended slab	m3	20	
6	In underpinning cast in sections	m3	36	
<u>TEST BLOCKS</u>				
7	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	72	
<u>MOVEMENT JOINTS ETC</u>				
Carried Forward			R	
Building Work Bill No. 3 Concrete, Formwork & Reinforcement				

	Brought Forward			R	
	<u>Saw cut Ream out 6mm wide 20mm deep seal,10 x 6 with SIKAFLEX-PRO 2HP on polyethylene backing cord.</u>				
8	3 x 30mm Saw cut joints on top of concrete	m	84		
	<u>Isolation joints with softboard between vertical concrete and brick surfaces</u>				
9	10mm Joints not exceeding 300mm high or wide	m	143		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
10	Surface beds, slabs, etc	m2	289		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY 1)</u>				
	<u>Smooth formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	98		
	<u>Smooth form work to soffits</u>				
12	Suspended slabs including propping n.e 3.5m high	m2	99		
	<u>REINFORCEMENT WORK</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
13	Rods in varying diameters in Foundations,bases,columns,etc	t	5		
	<u>High Tensile steel reinforcement to structural concrete work</u>				
14	Rods in varying diameters in Foundations,bases,columns,etc	t	5		
	Carried Forward			R	
	Building Work Bill No. 3 Concrete, Formwork & Reinforcement				

Brought Forward			R
<u>Fabric reinforcement</u>			
15	BRC Mesh Ref 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	91
16	BRC Mesh Ref 617 fabric reinforcement in pit bottom slabs.	m2	198
17	BRC Mesh Ref 395 fabric reinforcement in soil crete backfill .	m2	271
Carried Forward to Summary of Section No. 2			R
Building Work			
Bill No. 3			
Concrete, Formwork & Reinforcement			

Item No		Quantity	Rate	Amount
	<u>BILL No.4</u>			
	<u>PRECAST CONCRETE</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sizes</u>			
	Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the architect for approval before moulds are made			
	<u>General</u>			
	Where kerbstones, blocks, etc are laid in ground, descriptions shall be deemed to include necessary excavation, filling in and ramming			
	<u>PRECAST CONCRETE ACCESS PANELS</u>			
1	Supply and install precast concrete slabs 375 x 1045 x 100mm (slab to have two "U" shaped Y10 lifting handles built-in)	No	16	
2	Supply and install precast concrete slabs 375 x 1155 x 100mm (slab to have two "U" shaped Y10 lifting handles built-in)	No	6	
3	Supply and install precast concrete slabs 375 x 1100 x 100mm (slab to have two "U" shaped Y10 lifting handles built-in)	No	6	
4	Supply and install precast concrete slabs 375 x 990 x 100mm (slab to have two "U" shaped Y10 lifting handles built-in)	No	8	
	Carried Forward		R	
	Building Work Bill No. 4 Precast concrete			

	Brought Forward			R	
5	Supply and install precast concrete slabs 375 x 2130 x 100mm (slab to have two "U" shaped Y10 lifting handles built-in)	No	4		
Carried Forward to Summary of Section No. 2					
Building Work					
Bill No. 4					
Precast concrete					

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 5</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>BLOCKWORK</u></p> <p><u>Concrete masonry units</u></p> <p>Blocks shall be either solid or hollow modular dense concrete masonry units in accordance with SABS Specification 1215, having compressive strengths as described</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Building Work Bill No. 5 Masonry</p>		R	

Brought Forward			R
<p><u>Blockwork</u></p> <p>Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"</p> <p>Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole</p> <p><u>Standard complementary blocks</u></p> <p>Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary</p> <p><u>DECORATIVE BLOCKS</u></p> <p>Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour</p> <p><u>FOUNDATIONS (PROVISIONAL)</u></p> <p><u>Blockwork in SABS 1215 approved hollow concrete blocks in class 3:1 cement mortar:</u></p> <p>1 Cement hollow blocks of M190 type SABS approved, to be laid in stretcher bond with joints not exceeding 20mm. m2 182</p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></p> <p>2 One brick wall m2 73</p> <p>3 One and a half brickwall in underpinning m2 192</p> <p>4 400 x 400mm Brick Piers m3 1</p> <p><u>SUPERSTRUCTURE</u></p>			
Carried Forward			R
<p>Building Work Bill No. 5 Masonry</p>			

Brought Forward				R	
<u>Blockwork in SABS 1215 approved hollow concrete blocks in class 3:1 cement mortar:</u>					
5	M90 Concrete blockwall in beamfilling	m2	99		
6	M150 Concrete blockwall built over existing walls including bonding new to old blockwork	m2	99		
<u>Brickwork of NFP bricks in class II mortar</u>					
7	One brick wall	m2	444		
8	Half brick wall	m2	82		
9	Half brick wall in beamfilling including building around roof timbers	m2	98		
10	One brickwall built over existing walls including bonding new to old brickwork	m2	87		
11	400 x 400mm Brick Piers	m3	2		
<u>Facebrick</u>					
<u>Corobrick Firelight Satin FBX facing bricks and pointing with 6 mm square recessed joints</u>					
12	Extra over ordinary brickwork for facing in stretcher bond and pointing in foundation	m2	35		
13	Extra over ordinary brickwork for facing in stretcher bond and pointing.	m2	473		
14	Extra over brickwork for face brickwork in beamfilling.	m2	21		
15	Extra over ordinary brickwork for facing in Piers	m2	29		
16	Face brick on edge window cill set sloping and slightly projecting on bottom edge in 1:5 cement mortar including cutting and fitting between reveals, fair splay cutting under and pointing on top, edge and projecting soffit (In No. 28)	m	18		
Carried Forward				R	
Building Work Bill No. 5 Masonry					

Brought Forward			R	
17	Face brick cut soldier course window head, formed with cant bricks 170mm high, bedded in 1:5 cement mortar including cutting and fitting between reveals and pointing on top and front face.	m	53	
18	Fair raking cutting.	m	75	
<u>BRICKWORK SUNDRIES</u>				
<u>Bagging of 1:3 cement and sand mixture</u>				
<u>Cement wash of 1:3 liquid cement and sand mixture applied with a brush</u>				
19	On outer face of inner skin of brick wall to receive bitumen paint (elsewhere measured)	m2	444	
<u>Brickwork reinforcement in foundations</u>				
20	150mm Wide reinforcement built in horizontally	m	1 309	
<u>Brickwork reinforcement in superstructure</u>				
21	75mm Wide reinforcement built in horizontally in superstructure	m	459	
22	150mm Wide reinforcement built in horizontally in superstructure	m	2 787	
<u>"Stalton" prestressed fabricated lintels</u>				
23	110 x 75mm Lintels in lengths not exceeding 3m	m	223	
<u>Galvanised hoop iron cramps, ties, etc</u>				
24	38 x 1.6mm Hoop iron slotted roof tie straps built into walls, wrapped and spiked to roof timbers., about 1200mm long	No	349	
<u>Air bricks etc</u>				
25	229 x 150mm Clay vermin proof air brick including internal pvc cover	No	32	
Carried Forward			R	
Building Work Bill No. 5 Masonry				

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL No. 6</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	72	
2	Under window cills	m2	15	
	<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
3	Under surface beds	m2	190	
	<u>Two coats "Brixéal" bitumen emulsion waterproof coating</u>			
4	On bagged brick walls	m2	444	
	Carried Forward		R	
	Building Work Bill No. 6 Waterproofing			

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL No. 7</u>			
	<u>ROOF COVERINGS ETC</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.8mm IBR 686 'Z200' galvanised steel sheet ISQ 230 with a chromadek colour coated finish to one side and standard back coating, paprus white to other and fixed to steel or timber purlins or girts using Class 3 fasteners, in stric accordance with manufacturerr's specifications (Global Roofing Solutions)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	1 602	
2	Galvanised IBR iron ridge capping.	m	145	
	<u>0.53mm thick AZ150 "Safintra Widedek" concealed-fix roofing profile aluminium zinc coated sheet steel with silicone polyester finish on one side fixed to timber purlins or rails in strict accordance to manufacturer's instructions</u>			
3	Roof covering with pitch not exceeding 25 degrees	m2	262	
4	Galvanised IBR iron ridge capping.	m	38	
	<u>Sundries</u>			
5	Polyethylene ridge closures	m	365	
6	Broad flute ridge closures	m	298	
7	Hurricane clips	No	3 322	
	Carried Forward		R	
	Building Work Bill No. 7 Roof Coverings			

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 8</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>Plate nailed timber roof truss construction</u></p> <p>The following is applicable in respect of roof trusses:</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Building Work Bill No. 8 Carpentry & Joinery</p>		R	

Brought Forward				R	
<p>Trusses are at maximum 1200mm centres and purlins are at maximum 1200mm centres The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings numbered 021MAV008 annexed to these bills of quantities/accompanying these bills of quantities for tender purposes. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences</p> <p><u>ROOFS ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></p> <p>The following is applicable in respect of roof trusses:</p> <p>Trusses are at maximum 900mm centres The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences</p> <p><u>Double pitched prefabricated roof trusses bearing on wall plate on both sides with pitch not exceeding 30 degrees</u></p>					
1	Double pitch truss size 3000mm to 5000mm overall span with 600mm eaves overhang projection on both sides	No	37		
2	Truss spanning 5.0m to 6.0m with 1800mm and 600mm overhangs.	No	10		
3	Truss spanning 6.0m to 7.0m with 1800mm and 600mm overhangs.	No	13		
4	Truss spanning 7.0m to 8.0m with 1800mm and 600mm overhangs.	No	15		
5	Truss spanning 8.0m to 9.0m with 1800mm and 600mm overhangs.	No	97		
Carried Forward				R	
<p>Building Work Bill No. 8 Carpentry & Joinery</p>					

	Brought Forward			R	
	<u>Sawn softwood SA Pine grade 4</u>				
6	38 x 114mm Rafter	m	21		
7	38 x 114mm Wall plates bedded level on and including cement mortar	m	363		
8	50 x 75mm Purlins	m	1 863		
9	38 x 114mm Bracing	m	1 216		
	<u>TR1 and TR2 Certificates</u>				
10	Allow for TR1 and TR2 certification of all trusses		Item		
	<u>LAMINATED TIMBER</u>				
	<u>Laminated wrought saligna</u>				
11	150 x 50mm Beams	m	15		
	<u>EAVES. VERGES. ETC</u>				
12	225 x 12mm 'Everite Nutec' Fascia boards including aluminium H-profile jointing strips.	m	374		
13	200 x 80mm Barge boards including galvanised steel H-profile jointing strips	m	225		
	<u>FRAMED DOORS. ETC</u>				
	<u>Wrought meranti doors as hung to steel frames</u>				
14	Saligna 'Blaco' ledged and braced battered door with 40x100mm styles and top rail, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces, size 813 x 2032mm high	No	38		
	Carried Forward			R	
	Building Work Bill No. 8 Carpentry & Joinery				

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 9</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>CEILINGS ETC</u></p> <p><u>NAILED UP CEILINGS</u></p> <p><u>6mm "Everite Nutec" or other equal and approved fibre-cement boards with H-type pressed steel jointing strips</u></p>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m2	1 169	
2	Extra over ceiling for 750 x 750mm trap door of 75 x 75mm wrought softwood rebated framing with one 50 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	26	
	<u>Rhinoboard Cornice</u>			
3	75mm Half round cornices	m	750	
	Carried Forward		R	
	Building Work Bill No. 9 Ceilings			

Brought Forward				R	
<u>INSULATION</u>					
<u>"Aerolite" or similar approved insulation</u>					
4	Continous layer of 100mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	1 171		
Carried Forward to Summary of Section No. 2				R	
Building Work					
Bill No. 9					
Ceilings					

Item No		Quantity	Rate	Amount
	<p><u>BILL No.10</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>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</p> <p><u>"Union"</u></p> <p><u>LOCKS</u></p> <p>1 Solid Art 450L/313 four lever lockset No 48</p> <p>2 Solid Art 390/312 three lever lockset No 24</p> <p>3 60mm "Viro" or Similar Pad lock. No 5</p> <p>4 Facility indicator bolt, code 37651RH No 28</p> <p><u>DOOR CLOSERS</u></p> <p>5 DORMA TS73 door closer No 60</p> <p>6 38mm Diameter rubber door stop, plugged to floor or walls No 12</p> <p>Carried Forward</p> <p>Building Work Bill No. 10 Ironmongery</p>			
			R	

Brought Forward			R	
<u>BATHROOM FITTINGS</u>				
7	303 x 156 x 141mm high Surface mounted stainless steel vandal and theft proof toilet roll holder	No	28	
8	300 x 270 x 520mm high, 34litre surface mounted stainless steel vandal and theft proof waste disposal bin	No	5	
<u>"Chairman Industries cc" grab rails</u>				
9	Ref DL3 Stainless Steel Dogleg Side rail with centre flange (three in total) with Satin Polished Finish, plugged and screwed to wall.	No	3	
10	Ref SR5-500mm Stainless Steel Flushvalve Back Rail with Satin Polished finish, plugged and screwed to wall.	No	3	
<u>SIGNAGE</u>				
11	150 x 150 mm Pvc pictogram (male, female or paraplegic sign) screwed to walls	No	15	
Carried Forward to Summary of Section No. 2			R	
Building Work				
Bill No. 10				
Ironmongery				

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 11</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>GALVANISED STEEL GATES. SCREENS. ETC</u></p> <p><u>The following in framed and welded galvanised mild steel security grille gates including fixing in position complete</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Building Work Bill No. 11 Metalwork</p>		R	

	Brought Forward			R
	<p><u>60 x 40 x 2mm Square tubing gate frame bolted through, and 40 x 6mm two horizontal supports with 19mm diameter steel rods at 110mm centres, and fitted with three pairs of 25mm diameter x 80mm long pin hinges (Galvanised finish).</u></p>			
1	Gate frame consisting of 50 x 50 x 2.5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2.5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate. Size 900 x 2100mm high overall	No	31	
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Double rebated frames suitable for one brick wall</u>			
2	Frame for door 813 x 2032mm high	No	34	
	<u>1.2mm Double rebated frames suitable for half brick walls with two brass butt hinges per door leaf "LI"</u>			
3	Frame for door size, 813 x 2032mm high	No	24	
	<u>GALVANISED STEEL WINDOWS. DOORS. ETC</u>			
	All windows shall be fitted with solid brass handles, screws, stays and hinge pins.			
	<u>Standard commercial windows with heavy duty solid brass ironmongery with opening sections fitted with standard burglar bars.</u>			
4	Window type 4-BH, size 889 x 457 mm high	No	13	
5	Window type NC4F , size 1511 x 949 mm high.	No	3	
	<u>STEEL HANDRAIL. BALUSTRADES ETC</u>			
	Carried Forward			R
	Building Work Bill No. 11 Metalwork			

Brought Forward			R	
<u>The following in hot dip galvanised mild steel balustrade pre-fabricated before galvanising and fixed to concrete or brickwork:</u>				
6	1000mm High balustrade with 75mm diameter tubular handrail, 50mm diameter tubular top and bottom rails, 50mm diameter tubular vertical stanchions at 995mm centres filled in with 10mm solid vertical round bars at 101mm centres. Vertical stanchions to have 150 x 150 x 3mm base plate welded on and fixed to concrete with 4x M10 expansion bolts each.	m	215	
7	1000mm High raking balustrade to pedestrian ramp with 75mm diameter tubular handrail, 50mm diameter tubular top and bottom rails, 50mm diameter tubular vertical stanchions at 995mm centres filled in with 10mm solid vertical round bars at 101mm centres. Vertical stanchions to have 150 x 150 x 3mm base plate welded on and fixed to concrete with 4x M10 expansion bolts each.	m	17	
8	Extra over for end closure to raking balustrade	No	8	
9	Extra over for 180 degree bend to raking balustrade	No	6	
10	Extra over for 90 degree bend to raking balustrade	No	9	
11	Extra over for 45 degree bend to raking balustrade	No	12	
Carried Forward to Summary of Section No. 2			R	
Building Work				
Bill No. 11				
Metalwork				

Item No		Quantity	Rate	Amount
	<u>BILL No.12</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SCREEDS</u>			
	<u>1:3 Cement plaster screed steel trowelled on concrete</u>			
1	40mm Thick on floors to even finish to receive vinyl tile/sheeting (elsewhere measured)	m2	137	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled on brickwork 1:4 cement mortar</u>			
2	On walls	m2	752	
3	On internal pit walls	m2	250	
4	On walls in narrow widths	m2	7	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster wood floated on brickwork in 1:4 cement mortar</u>			
5	On walls	m2	159	
6	External Pit walls	m2	168	
	Carried Forward to Summary of Section No. 2			
	Building Work			
	Bill No. 12			
	Plastering			

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Item No		Quantity	Rate	Amount
	<u>BILL No. 14</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>RAINWATER DISPOSAL</u>			
	<u>ALUMINIUM OGEE rainwater goods</u>			
1	120mm wide box gutter (280mm girth) m	1 116		
2	Extra over 280mm girth eaves box gutter for stopped end No	52		
3	Extra over 280mm girth box eaves gutter for angle No	6		
4	Extra over 280mm girth box eaves gutter for outlet for 75 x 75mm pipe No	54		
5	75 x 75mm Rainwater pipes m	130		
6	Extra over 75 x 75mm diameter rainwater pipe for bend No	92		
7	Extra over 75 x 75mm rainwater pipe for shoe No	44		
8	Extra over 75 x 75mm rainwater pipe for eaves or plinth offset 600mm projection No	40		
	<u>SANITARY FITTINGS</u>			
	<u>"Atlas Plastics" or similar approved plastic sanitary fittings including connection to services and fixing to walls or floors.</u>			
	Carried Forward		R	
	Building Work Bill No. 14 Plumbing & Drainage			

Brought Forward			R	
	<u>Water Closet, basins, urinals,etc</u>			
9	223 AP, VIP 200 toilet pedestal for VIP toilets complete with lid and single flap heavy duty plastic seat fitted as per manufacturer's instructions.	No	26	
10	496AP Waterless urinal fitting and waste	No	6	
11	382AP Christy wash hand basin including brackets,etc.	No	24	
	<u>"Cobra"</u>			
	<u>TRAPS ETC</u>			
	<u>"Marley"</u>			
12	38mm Deep seal "P" or "S" trap	No	30	
	<u>WASTE UNIONS ETC</u>			
13	32mm Basin waste union	No	24	
	<u>TAPS, VALVES, ETC</u>			
	<u>"Cobra Watertech"</u>			
14	15mm Chrome plated ball-o-stop valve	No	34	
15	Star pillar tap (Code 111-20)	No	21	
16	Cobra Water tech 15mm chrome plated elbow action raised nose pillar tap with blue indicator for cold water (Code: 503-21B), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	2	
17	32mm CP urinal Flush master fitted as per manufacturer's instruction	No	4	
	<u>Brass</u>			
18	22mm Stopcock	No	10	
19	28mm Fullway gate valve	No	10	
	Carried Forward			
	Building Work Bill No. 14 Plumbing & Drainage			
			R	

Brought Forward				R	
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes in walls, cast in slabs etc.</u>					
20	50mm Pipes	m	201		
21	110mm Pipes	m	314		
<u>Extra over uPVC pipes for fittings</u>					
22	Copper gauze to vent pipe tops size 200 x 200 mm	No	23		
23	50mm Bend	No	65		
24	50mm Access bend	No	46		
25	50mm Access junction	No	46		
26	110mm Vent cowl	No	27		
27	110mm Access bend	No	80		
28	110mm Gulley trap, head and grate including precast concrete gulley surround frame set on concrete.	No	5		
<u>WATER SUPPLIES</u>					
<u>Polycop pipes</u>					
29	15mm Polycop pipe to walls,etc	m	135		
30	22mm Polycop pipe to walls,etc	m	175		
31	15mm Polycop pipe in ground < 1m deep	m	117		
32	22mm Polycop pipe in ground < 1m deep	m	170		
<u>Extra over Class 2 copper pipes for brass compression fittings</u>					
33	15mm Fittings	No	210		
34	22mm Fittings	No	286		
Carried Forward				R	
Building Work Bill No. 14 Plumbing & Drainage					

Brought Forward			R	
<u>FIRE APPLIANCES, ETC.</u>				
35	Everyway hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket.	No	9	
36	Fibre glass cabinet to suit hose reel.	No	9	
37	4,5kg CO2 fire extinguisher to SABS 1567 including brackets for wall mounting.	No	9	
38	9 kg CO2 fire extinguisher to SABS 1567 including brackets for wall mounting.	No	9	
<u>SOAKAWAY</u>				
<u>Soak pit for basin waste water</u>				
39	Soak pit out of a pit excavated in ground and filled with stones 75 to 200mm in average diameter, covered with 250 micron damp proof membrane and backfilling and forming a mound over to deter the ingress of storm water, overall size 1500 x 2000 x 2000mm deep.	m	8	
<u>TESTING</u>				
40	Testing water pipe system		Item	
Carried Forward to Summary of Section No. 2			R	
Building Work				
Bill No. 14				
Plumbing & Drainage				

Item No		Quantity	Rate	Amount
	<u>BILL No. 15</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Note: Glazing of laminated safety glass into steel frames: all edges to be sealed with 15mm selotape to prevent water absorption via the vinyl interlayer. Glass to be set on 25mm neoprene rubber setting blocks of 60 - 90 degree sure hardness</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm McLam clear laminated safety glass to fanlights</u>			
1	Panes exceeding 0,1m2 and not exceeding 0.5m2	m2	18	
	<u>MIRRORS ETC</u>			
	<u>"Franke" mirror holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
2	600 x 600mm high mirror	No	20	
	Carried Forward to Summary of Section No. 2		R	
	Building Work			
	Bill No. 15			
	Glazing			

Item No		Quantity	Rate	Amount
	<p><u>BILL No. 15</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></p> <p><u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><u>PAINTWORK ETC TO PREVIOUSLY PAINTED SURFACES</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Building Work Bill No. 16 Paintwork</p>		R	

	Brought Forward			R	
	<u>Prepare surface, prime, stop with multi-purpose crack filler and apply two coats of plascon wall n all finishing coats to match the school colours</u>				
1	On internal walls	m2	1 633		
	<u>Clean and prepare surface, apply one coat "Dulux Trade" ecosure plaster primer, and two coats "Dulux Trade" weatherguard paint</u>				
2	External walls	m2	1 141		
	<u>PAINTWORK ETC TO NEW WORK</u>				
	<u>ON PLASTER, ETC</u>				
	<u>Clean and prepare surface, apply one coat "Dulux Trade" ecosure plaster primer, and two coats "Dulux Trade" ecosure silk paint</u>				
3	On internal walls	m2	1 000		
	<u>ON CEILINGS</u>				
	<u>One coat Dulux trade Alkali resistant primer two coats Dulux trade 65 MATT PVA</u>				
4	On ceilings	m2	1 169		
	<u>ON FASCIAS AND BARGE BOARDS</u>				
	<u>Prepare and apply one coat Dulux primer, one coat Dulux undercoat for all surfaces and two coats Dulux weatherguard ultrasmooth</u>				
5	On fascias and barge boards	m2	175		
	<u>ON METAL</u>				
	<u>Prepare and apply Dulux cleaner to galvanised iron, One coat Dulux primer for galvanised iron, one coat Dulux universal undercoat and two coats Dulux gloss enamel to galvanised steel</u>				
6	Security gates and screens	m2	69		
	Carried Forward			R	
	Building Work				
	Bill No. 16				
	Paintwork				

Brought Forward			R	
7	Windows	m2	178	
	<u>ON WOOD</u>			
	<u>Prepare and apply one coat Dulux primer for wood, one coat Dulux trade universal undercoat and two coats Dulux trade pearl glo paint</u>			
8	On doors & frames	m2	250	
	<u>PAINTS TO ROOF TRUSSES, PURLINS, BRANDERING, WALLS PLATES ETC.</u>			
9	Prepare and apply two coats ABE Provonite paint to roof timbers	m2	373	
Carried Forward to Summary of Section No. 2			R	
Building Work				
Bill No. 16				
Paintwork				

Bill No	Section No. 2		Page No		Amount			
	Building Work							
	<u>SECTION SUMMARY - Building Work</u>							
	1	Alterations				17		
	2	Earthworks				20		
	3	Concrete, Formwork & Reinforcement				24		
	4	Precast concrete				26		
	5	Masonry				31		
	6	Waterproofing				33		
	7	Roof Coverings				35		
	8	Carpentry & Joinery				39		
	9	Ceilings				41		
	10	Ironmongery				43		
	11	Metalwork				46		
	12	Plastering				47		
	13	Tiling				48		
	14	Plumbing & Drainage				52		
	15	Glazing				53		
	16	Paintwork				56		
	Carried to Final Summary							
Building Work								

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>LANDSCAPING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>CONCRETE VERANDAH</u>			
1	Reduced levels under floors	m3	130	
2	Level and compact earth under apron slab to a minimum of 95% Mod AASHTO density under slabs	m2	435	
3	G5 Fill material supplied by contractor under apron area etc compacted to 97% Mod AASHTO density	m3	66	
4	25Mpa/19mm Reinforced concrete to aprons.	m3	67	
5	BRC Mesh Ref 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	435	
6	Wood float finish to top of concrete surfaces.	m2	435	
7	Rough formwork to edges not exceeding 300mm high or wide.	m	310	
	Carried Forward		R	
	External works Bill No. 1 External Work (Provisional)			

Brought Forward			R	
8	10mm Saw cut joint with sika primer no 3 to exposed concrete surface in joints. Joints sealed with "sika flex11FC" flush with concrete surface with 8 x 10mm sondor jointex backing.	m	163	
<u>CONCRETE WALKWAYS</u>				
9	Excavate in earth to reduce levels not exceeding 2 m deep.	m3	63	
10	Extra over all excavations for carting away surplus excavated material from the site to a site to be located by the contractor.	m3	63	
11	Scarify ground to a depth of 150 mm and re-compact to 90% Mod. AASHTO density.	m2	211	
12	Approved G5 natural crushed stone as base course 150 mm thick compacted to 98% Modified AASHTO density under pavings	m3	32	
13	25 MPa/25mm stone in walkways, cast in panels.	m3	39	
14	Extra for floating off smooth tops of pavings to falls with a wood float and finish with a transverse broom-swept stippled finish.	m2	211	
15	Semi smooth formwork to sides, edges and risers of surface beds not exceeding 300mm high or wide	m	283	
16	One layer 250 micron polyethylene waterproof sheeting in accordance with SABS 952 Type C lapped 150 mm at joints and sealed with pressure sensitive tape and laying under paving.	m2	211	
17	Reference 193 welded mesh reinforcement lapped 300mm at edge of adjoining sheets and bound with annealed wire and laying in concrete surface beds (Measured nett - no allowance made for laps)	m2	211	
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
18	6mm wide x 20mm deep Flexible sealant "Sikaflex-Pro 2HP" or other approved sealant on polyethylene backing cord in expansion joint between edges of concrete paving.	m	75	
<u>CONCRETE STORMWATER CHANNELS</u>				
<u>Stormwater channels</u>				
19	900mm Wide "V" shaped concrete +/- 75mm thick storm water channel cast in sections not exceeding 2m long	m	722	
20	Extra over channels for intersections	No	89	
21	Extra over for 900mm wide spreader with 1500mm end, including 4 half cut soldier bricks planted in	No	24	
22	12mm Softboard in joint with "Sika-pro" or similar approved grey polysulphide joint sealer including backing cord and cleaning concrete on completion	m	798	
<u>RAMPS</u>				
23	Excavate in earth to reduce levels not exceeding 2 m deep.	m3	4	
24	Scarify ground to a depth of 150 mm and re-compact to 90% Mod. AASHTO density.	m2	13	
25	Approved G5 natural crushed stone as base course 150 mm thick compacted to 98% Modified AASHTO density under pavings	m3	2	
26	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" under slab	m2	13	
27	Sikaflex-1A" or other approved polyurethane sealing compound including backing cord bond breaker primer,etc	m	5	
28	15mm softboard strips, 100mm high inserted between concrete	m2	0.3	
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
29	BRC Mesh Ref 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	13	
30	25MPa reinforced concrete in ramp	m3	2	
31	Formwork to sides of ramp	m	20	
32	Finishing top surfaces of concrete smooth with a wood float	m2	13	
<u>WATER STORAGE TANKS. ETC</u>				
<u>Tanks and fittings etc:</u>				
33	5000 Litre Jojo or similar approved (Size 2300 diameter x 1800mm high) water tank with 35mm diameter inlet at top and 50mm overflow outlet and 25mm outlet at base of tank including access hatch on top fitted with vermin proof vent and including 480mm polyethylene lid and 2500 x 2500 x 850mm high brickwork stand.	No	5	
34	10 000 Litre Jojo or similar approved (Size 2200 diameter x 3150mm high) water tank with 35mm diameter inlet at top and 50mm overflow outlet and 25mm outlet at base of tank including access hatch on top fitted with vermin proof vent and including 480mm polyethylene lid and 2500 x 2500 x 850mm high brickwork stand.	No	14	
35	32000 Litre galvanised steel or similar approved (Size 3600 diameter x 3150mm high) water tank with 35mm diameter inlet at top and 90mm overflow outlet and 35mm outlet at base of tank including access hatch on top fitted with vermin proof vent and including 400mm lid placed on 5m high galvanised steel elevated tank stand (elsewhere measured)	No	1	
<u>ELEVATED TANKS STAND</u>				
36	Supply and install 5m high galvanised steel elevated tank stand including all relevant earthworks, concrete works, bracing, connection to services and testing to the Engineer's satisfaction all done as per engineers specification, overall size 1600 x 1600mm with 2700 x 2700mm top platform.	No	1	
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
37	Supply and install 8KVA stand-by generator for borehole submersible pump operations.	No	1	
<u>Elevated Tank Fittings</u>				
38	PVC flange adaptor (cast iron).	No	2	
39	Galvanised steel screw on flange.	No	2	
40	90 Degree MGI Male/Female bend.	No	2	
41	475mm long MGI pipe piece 50mm Diameter threaded both ends.	No	2	
42	90 DegreeGREE MGI female bend.	No	4	
43	330mm long MGI pipe piece 50mm Diameter threaded both ends.	No	2	
44	1020mm Long MGI pipe piece 50mm Diameter threaded both ends.	No	1	
45	50mm Diameter MGI conical seat union.	No	1	
46	50mm Diameter MGI Barrel nipple.	No	1	
47	50mm Brass female fully threaded gate valve.	No	1	
48	2000mm Long MGI pipe piece 50mm Diameter threaded both ends.	No	1	
49	65 x 65 x 65ND MGI female equal tee.	No	2	
50	65 x 50ND MGI reducing bush.	No	2	
51	50ND x 50BSP male adaptor compression fitting.	No	2	
52	600mm Long high density Polyethylene IV class 6 pipe(TO SABS 533),50mm Diameter.	No	2	
53	50NDx40BSP male elbow compression fitting.	No	2	
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
54	2800mm long high density polyethylene type IV class 6 pipe (TO SABS 533),size 50mm Diameter.	No	1	
55	90 Degree elbow compression fitting.	No	1	
56	3150mm long MGI pipe piece size 50mm Diameter threade both.	No	1	
57	50mm Diameter PVC class 6 pipe.	m	12	
58	MGI Hollow plugs.	No	2	
<u>WATER RETICULATION LINES WITHIN THE SCHOOL</u>				
<u>Pipe Earthworks</u>				
59	Clearing and grubbing along the pipeline, 1m wide.	m	205	
60	Excavate for pipeline, 400mm wide x 675mm deep.	m3	39	
61	Selected bedding material from excavations laid in trenches and compacted to Engineer's approval.	m3	6	
62	Selected blanketing material from excavations compacted to Engineer's approval.	m3	17	
63	Concrete sand bedding from commercial sources, spread, levelled and compacted in trenches	m3	6	
64	Backfilling to pipe trenches compacted to Engineer's approval.	m3	16	
<u>Pipe laying</u>				
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
<u>Supply, lay, disinfect and test HDPe class 10 pipes laid in trenches (elsewhere measured)</u>				
65	25mm HDPe pipe	m	11	
66	32mm HDPe pipe.	m	29	
67	50mm HDPe pipe.	m	205	
<u>Extra over HDPe pipe for "Plasson" or similar pipe fittings</u>				
<u>Bends. 90° :</u>				
68	32mm HDPe fitting	No	12	
69	50mm HDPe fitting	No	13	
<u>Bends. 45°:</u>				
70	32mm HDPe fitting	No	10	
71	50mm HDPe fitting	No	9	
<u>Reducer Tees :</u>				
72	25 x 32mm HDPe fitting	No	10	
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
73	32x50mm HDPe fitting	No	10	
	<u>Straight Tee</u>			
74	50mm fitting	No	10	
	<u>Straight Reducers:</u>			
75	25 x 32mm fitting	No	11	
76	32 x 50mm fitting	No	12	
	<u>Reducer bends. 90°</u>			
77	25 x 32mm fitting	No	13	
	<u>Coupling:</u>			
78	50mm Fitting	No	15	
79	32mm fitting.	No	15	
	<u>SEPTIC TANKS. SEWER PACKAGE PLANT. ETC</u>			
	<u>Septic Tanks as per Engineer's Specifications</u>			
80	Septic tank out of 200mm bottom reinforced slab(25Mpa/19) cast on top of 50mm concrete blinding,170 mm top slab(25Mpa/19) with three concrete manholes, size 600 x600 x300mm high including 600 x 600 mm medium duty CI manhole covers and frame type 8B to SABS 558, with 230mm corobrick NFX plastered internal and sides bricks, frame overall size 6120mm x 2100mm x 2950mm deep.	No	1	
	<u>FENCING</u>			
Carried Forward			R	
External works Bill No. 1 External Work (Provisional)				

Brought Forward			R	
<u>CLEARING AND GRUBBING</u>				
81	Clear fence line, 1.0m wide of all debris, hedges, shrubs, vegetation and trees not exceeding 200mm girth.	m	306	
<u>Cleavu Invisible Wall Panels with aperture size (centres) @ 76.2 x 12.7mm, mesh galvanised then marine fusion bond coated (acid modified) or similar approved with an underdig of 300mm. Panel reinforced with 4 x 50mm deep "V" formation horizontal recessed bands, (rigidity). 2 x 75mm 70 Degrees flanges along sides (internal fixtures - anti vandal), allowing for flush post and panel finish; 48 line wire secure connection, locking recess mechanism; and 1 x 90 degrees flange top and 1 x 30 degrees flange toe (arrow-straight edges, intergraded angle).</u>				
82	2.00m High Clearvu Invisible Wall panels	m	306	
<u>GATES</u>				
<u>3mm Clearvu Galvanised steel gate with aperture size (centers) 76.2 x 12.7mm, then mMarine Fusion Bond coated (acid modified)</u>				
83	Single Sliding Gate size 5110 x 2311mm high	No	1	
84	Single pedestrian gate size 900 x 2400mm High	No	1	
Carried to Final Summary			R	
External works				
Bill No. 1				
External Work (Provisional)				

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO.4</u>				
	<u>BILL No. 1</u>				
	<u>PROVISIONAL SUMS</u>				
	<u>PREAMBLES</u>				
	<u>TheTenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Items, materials or methods used specified by trade names or cartalogue numbers are only an indication of the quality required. Item, materials or methods of similar quality may be used with prior aproval from the architect.</u>				
	<u>PROVISIONAL SUMS</u>				
	<u>TEMPORARY PARK HOMES</u>				
1	Allow a provisional sum of R 850 000 for four temporary classrooms to be used during the construction period.			SUM	
2	Allow for profit and attendance on the above provisional items.			%	
	<u>JUNGLE GYM EQUIPMENT</u>				
3	Allow a provisional sum of R 30 000 for supply and installation of jungle gym equipment for grade "R"			SUM	
4	Allow for profit and attendance on the above item.			%	
	<u>BOREHOLE</u>				
5	Allow a provisional sum of R 60 000 for the equipping of the borehole with a submersible pump and surface control panel.Pump to be matched to the power supply available.			SUM	
	Carried Forward			R	
	Provisional Sums				
	Bill No. 1				
	Provisional Sums				

Brought Forward		R
6	Allow for profit and Attendance on the above item.	%
7	Allow a provisional sum of R 500 000 for drilling, encasing and testing of borehole to be located on site by the geohydrologist and under the supervision of the geohydrologist.	SUM
8	Allow for profit and Attendance on the above item.	%
<u>UNDERPINNING STRIP FOOTINGS</u>		
9	Allow a provisional sum of R 157 000 for underpinning strip footings	SUM
10	Allow for profit and attendance on the above item.	%
<u>WATER TREATMENT SYSTEM</u>		
11	Allow a provisional sum of R 80 000 for the supply, delivery, installation, commissioning and testing of water treatment system by the specialist contractor.	SUM
12	Allow for profit and Attendance on the above item.	%
<u>BLOCK N RESTORATION</u>		
13	Allow a provisional sum of R 509 816.11 for restoration of block N building.	SUM
14	Allow for profit and Attendance on the above item.	%
Carried to Final Summary		R
Provisional Sums		
Bill No. 1		
Provisional Sums		

Item No			Quantity	Rate	Amount R
	CPG Bill of Quantities:				
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.				
	MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS				
	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R42 760,00	R42 760,00
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS				
	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R42 760,00	R42 760,00
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation	%			
				R	
	Carried Forward to Summary of Section No.				
	SECTION NO.3 - PROVISIONAL SUMS				
	Bill No. 1				
	Provisional Sums				

Item No			Quantity	Rate	Amount R
	MINIMUM TARGETED ENTERPRISE DEVELOPMENT				
	A provisional amount has been allowed for in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS	1	R427 599,97	R427 599,97
	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	LABOUR INTENSIVE PARTICIPATION GOAL				
	Labour Intensive Participation Goal - Allowance for monthly reporting of labour intensive works by main contractor based on determination by Employer taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R72 000,00	R72 000,00
	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	Carried to Collection			R	
	SECTION NO.3 – ASBESTOS REPLACEMENT				
	Bill No. 1				
	Provisional Sums				

<p>MINIMUM 30% SUB-CONTRACTING</p> <p>Provision is made for 30% subcontracting to SMMEs in the execution of this project as described in C3.1 Project Specifications . This is the contractors allowance for the P&G's for the 30% sub-contractors (SMME's).The Employer will define the actual P&G items applicable to the SMME's after tender award</p>	PS	1	R442 565,97	R442 565,97
<p>Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.</p>	%			
<p>Allowance for attendance all inclusive of associated costs to the contractor for implementation.</p>	%			
<p>Carried Forward to Summary of Section No.</p>				
<p>SECTION NO.3 - PROVISIONAL SUMS</p>			R	
<p>Bill No. 1</p>				
<p>Provisional Sums</p>				

Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>BILL NO.1</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>PRELIMINARIES AND GENERAL</u>			
1	Contractual requirements		SUM	
2	Transport and labour in transit		SUM	
3	Accommodation and subsistence		SUM	
4	HSE compliance and supervision		SUM	
5	Site supervision		SUM	
6	Equipment hire		SUM	
7	Co-operation and Programming with others		SUM	
8	Temporary connections - site office/container		SUM	
9	Supervision during construction, Tools/ equipment and Living accommodation		SUM	
10	Contract Insurance and Other fixed charge obligations		SUM	
	Carried Forward to Summary of Section No. 5			
	Electrical Installation		R	
	Bill No. 1			
	Preliminaries & General			

Item No	Quantity	Rate	Amount
<u>BILL NO.2</u>			
<u>DISTRIBUTION BOARDS AND CABLES</u>			
<u>Distribution Boards:</u>			
Supply,deliver,off load and install the following Distribution Boards including all busbars, switchgear and other equipment as per the drawings. Installation shall includes all fixings, earthing and conduit terminations as per the specification and drawing			
NOTE: DB shall include lightning protection and surge suppression equipment and shall be sized accordingly.			
1	LV Incoming Kiosk with Plinth and Meter (three compartment, maximum demand kiosk, 60A 3-ph.B, including all busbars, switchgear and other equipment as detailed on single line diagram . DB to have (3 pole + N) Lightning Arrestors.	No 1	
2	DB : Supply, installation and commissioning of 60A 1 phase DB, including all busbars, switchgear and other equipment as detailed on single line diagram . DB to have (2 pole + N) Lightning Arrestors.	No 9	
3	Test and issue certificate of compliance	No 10	
<u>Cables - Power</u>			
<u>Supply and install 600/1000V ECC cables installed in sleeves c/w glands, junction boxes</u>			
4	6 mm2 x 2C Cu PVC/PVC/SWA-ECC/PVC cable	m 50	
5	10 mm2 x 2C Cu PVC/PVC/SWA-ECC/PVC cable	m 360	
<u>Cable Termination</u>			
Carried Forward			R
Electrical Installation Bill No. 2 Distribution boards and cables			

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>LIGHTING AND SMALL POWER INSTALLATION</u>			
	<u>General Small Power</u>			
	<u>Conduit: Supply and install PVC conduit and accessories including, adaptors, couplings jointing, saddles cutting, bending, fixing and waste in concrete, ceiling, surface on walls or brickwork. All conduit work to be chased on to the wall surface.</u>			
1	20mm diameter Conduit	m	800	
2	20mm Couplings	No	410	
3	20mm Adaptors	No	410	
4	25mm diameter Conduit	m	480	
5	25mm Couplings	No	210	
6	25mm Adaptors	No	210	
7	50mm diameter Sleeve	m	80	
	<u>Conduit Boxes: Supply and install conduit boxes for 20mm conduit with 1, 2, 3 or 4 way side entries, and or back entry including conduit connection. Allowance to be made for chasing of boxes on the wall surface.</u>			
8	4x4 PVC Boxes	No	56	
9	4x2 Pvc Boxes	No	32	
10	Round Boxes	No	200	
	<u>PVC Wiring Conductors: Supply and install PVC insulated copper conductors as specified drawn into conduit.</u>			
11	1.5mm ² Red PVC insulated stranded copper conductor	m	950	
	Carried Forward		R	
	Electrical Installation Bill No. 3 Lighting and small power installation			

Brought Forward				R	
12	1.5mm ² Black PVC insulated stranded copper conductor	m	950		
13	1.5mm ² Green PVC insulated stranded copper conductor	m	950		
14	2.5mm ² Red PVC insulated stranded copper conductor	m	790		
15	2.5mm ² Black PVC insulated stranded copper conductor	m	790		
16	2.5mm ² Green PVC insulated stranded copper conductor	m	790		
<u>Switched Socket Outlets: Supply and install 16 Amp 240 volt flush mounted switch socket outlets complete with all fixings in conduit box as well as the socket outlet box and cover.</u>					
17	Euro switched socket outlet with 1 x 16A 3-pin and 1 x 16A 2-pin switched socket outlet complete with white engraved/labelled PVC cover plate fixed in 100mm x 100mm x 50mm galvanized flush box	No	56		
18	Surface mounted 20A 230V double pole , single phase isolator mounted within 0,5mm of the device	No	5		
<u>Power Skirting:Supply and install the following power skirting in the position as indicated on the drawing.</u>					
19	2 Compartment OBO Power Skirting with Covers or Similar Approved.	No	50		
20	OBO Body Joint Cover or Similar Approved.	No	20		
21	OBO End Cap.	No	10		
22	OBO 90 External and Internal Bend including their Joints and Covers.	No	8		
23	Power Skirting 16A 3 Pin Switched Socketoutles White.	No	25		
24	Power Skirting 16A 2 Pin Switched Socketoutles White.	No	25		
25	Power Skirting 16A 3 Pin Switched Socketoutles Red.	No	18		
Carried Forward				R	
Electrical Installation Bill No. 3 Lighting and small power installation					

Brought Forward			R	
26	Power Skirting 16A 2 Pin Switched Socketoutles Red.	No	18	
<u>Luminaires & Light switches</u>				
<u>Supply and installation of the following fittings, costs to include fastening, switchgear, plinths</u>				
27	Type "A". Surface Mounted 2x18W LED Light Fitting, Completed with Clipp-In low brightness decorative louver and Prismatic Diffuser.	No	16	
28	Type "B".Horizontal Mounted 20W LED Decorative LM6 Aluminium Bulkhead Light Fitting bearing SABS mark, Complete with Electronic Ballast, Teflon and Silicon Wiring, Diaphragm Grommets and Circuit Designation Data	No	12	
29	Type "B1".Wall Mounted 20W LED Decorative LM6 Aluminium Bulkhead Light Fitting bearing SABS mark, Complete with Electronic Ballast, Teflon and Silicon Wiring, Diaphragm Grommets and Circuit Designation Data	m	63	
30	Type "C". Surface Mounted 18W LED Vapour Proof Dampa Light Fitting, Complete with acrylic sleeves.	No	16	
31	Type "E". Surface Mounted 2x 18W Open Channel Light Fitting bearing SABS Mark.	No	74	
32	Type "FL". Wall Mounted decorative 50W LED Flood Light Fitting Bearing SABS Mark, Complete with Circuit Designation Data.	No	14	
33	Ceiling Mounted Sweep Fan	No	26	
34	Crabtree or similar approved single toggle one way 16A light switch complete with white engraved/labelled cover plate fixed	No	32	
35	Ceiling Sweep fan speed controller.	No	26	
36	Photo cell	No	10	
Carried Forward to Summary of Section No. 5			R	
Electrical Installation				
Bill No. 3				
Lighting and small power installation				

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Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Preliminaries & Generals	14		
2	Building Work	57		
3	External works	66		
4	Provisional Sums	71		
5	Electrical Installation	79		
	Sub Total Before contingencies		R	
	Add Contingencies @ 5%		R	
	Sub Total before Vat		R	
	Add Vat @ 15%		R	

Carried to Form of Tender

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