

Item No		Quantity	Rate	Amount
	<p><u>SECTION 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 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned 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 above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>			
	Carried Forward		R	
	<p>Section No. 1</p> <p>PRELIMINARIES AND GENERAL</p> <p>Bill No. 1</p> <p>PRELIMINARIES AND GENERAL</p>			

Brought Forward		R	
<p><u>PREAMBLES FOR TRADES</u></p> <p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p> <p>Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project</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>GENERAL</u></p> <p>If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value</p> <p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions (A1)</u></p>			
<p>1 Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p>	Item		
Carried Forward		R	
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	Brought Forward		R	
	<u>Objective and Preparation (A2 to A14)</u>			
2	<p>Offer acceptance and performance (clause 2)</p> <p>F:..... V:..... T:.....</p>	Item		
3	<p>Documents (clause 3)</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Design responsibility (clause 4)</p> <p>F:..... V:..... T:.....</p>	Item		
5	<p>Employer's agents (clause 5)</p> <p>F:..... V:..... T:.....</p> <p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
	The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process			
6	Site representative (clause 6)			
	F:..... V:..... T:.....	Item		
7	Compliance with regulations (clause 7)			
	F:..... V:..... T:.....	Item		
8	Works risk (clause 8)			
	F:..... V:..... T:.....	Item		
9	Indemnities (clause 9)			
	F:..... V:..... T:.....	Item		
10	Works insurances (clause 10)			
	F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11)			
	F:..... V:..... T:.....	Item		
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	Brought Forward		R	
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) F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18) F:..... V:..... T:..... The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item		
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Brought Forward			R	
19	<p>Assignment (clause 19)</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer</p>	Item		
20	<p>Nominated subcontractors (clause 20)</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p>	Item		
22	<p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Contractor's Domestic Sub-Contractors (Clause 23)</p> <p>F:..... V:..... T:.....</p>	Item		
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	Brought Forward		R	
	<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)			
	F:..... V:..... T:.....	Item		
	The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)			
	Carried Forward		R	
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Brought Forward				R
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:..... Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing	Item		
33	Recovery of expense and loss (clause 33) F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34) F:..... V:..... T:..... The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion	Item		
Carried Forward				R
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	Brought Forward		R	
	The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account			
35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item		
	<u>Cancellation (A36-A39)</u>			
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item		
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....	Item		
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Dispute (A40)</u>			
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
	<u>Substitute Provisions (A41)</u>			
41	State clauses (Clause 41) F:..... V:..... T:..... Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item		
	<u>THE SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42) F:..... V:..... T:.....	Item		
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>			
	42.1.1 Employer: As per information on the tender data			
	42.1.2 Principal Agent: As per the information on the Tender data			
	42.1.3 Architect:			
	Carried Forward		R	
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	Brought Forward		R	
42.1.4 Quantity Surveyor:				
Structural :				
42.1.5 Civil:				
42.1.6 Electrical Engineer:				
42.1.6 Mechanical Engineer:				
<u>42.2 CONTRACT DETAILS</u>				
42.2.1 Works Description: Construction of sanitation facilities				
42.2.2 Site Description: as per the information on the tender data				
42.2.3 Work or installations by direct contractors:				
N/A				
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only				
Yes				
42.2.5 Date on which possession of the site is intended to be given:				
UNKNOWN				
	Carried Forward		R	
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<p style="text-align: right;">Brought Forward</p> <p>42.2.6 Period for the commencement of the works after the contractor takes posse</p> <p>42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day</p> <p>3 months after contractual commencement date <i>Date</i></p> <p style="text-align: right;"><i>Penalty Amount</i></p> <p><i>The penalty per calendar day shall be 0.05% of the tenderd amount (inclusive of value added tax)</i></p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day</p> <p style="text-align: right;">Section 1</p> <p style="text-align: right;">.N/A..... <i>Date</i></p> <p style="text-align: right;">R.N/A..... <i>Penalty Amount</i></p> <p>42.2.9 The law applicable to this agreement shall be that of</p> <p style="text-align: right;"><i>South Africa (country)</i></p> <p><u>42.3 INSURANCES</u></p> <p>42.3.1 Contract works insurance to be effected by:</p> <p style="text-align: right;"><i>Contractor:</i></p> <p style="text-align: right;"><i>For the Sum of R Contract Amount + 20.00 %</i></p> <p style="text-align: right;"><i>With a deductible of - to be determined by the contractor</i></p> <p>42.3.2 Supplementary insurance is required</p> <p style="text-align: right;"><i>No</i></p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>		R	
		R	

Brought Forward		R	
<p>42.3.3 Public liability insurance to be effected by: <i>Contractor:</i></p> <p style="text-align: center;"><i>For the Sum of R 2 500 000-00</i></p> <p><i>With a deductible of - to be determined by the contractor</i></p>			
<u>42.4 DOCUMENTS</u>			
<p>42.4.1 Waivers of contractors lien or right of continuing possession is required</p> <p style="text-align: right;">Yes</p>			
<p>42.4.2 Number of construction document copies to be supplied to the contractor free of charge:</p> <p style="text-align: right;">3 Number of</p>			
<p>42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with:</p> <p style="text-align: center;">“Standard System of Measuring Builders’ Work”</p>			
<p>42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days</p> <p style="text-align: right;"><i>The priced bills of quantities must be handed in with the tender</i></p>			
<p>42.4.5 JBCC Engineering General Conditions are to be included in the contract documents:</p> <p style="text-align: right;">No</p>			
<p>42.4.6 The contract value is to be adjusted using escalation adjustment indices</p> <p style="text-align: right;">Yes</p> <p style="text-align: right;">Where JBCC CPAP is to be used <i>Base Month July 2010</i></p>			
<p>42.4.7 Details of changes made to the provision of JBCC standard documentation:</p>			
Carried Forward		R	
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	Brought Forward		R	
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
44	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A		
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
48	Priced documents (B2.5) F:..... V:..... T:.....	Item		
49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
50	Defined works area (B3.1) F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
	Existing premises occupied (B3.4) F:..... V:..... T:.....			
	Previous work - dimensional accuracy (B3.5) F:..... V:..... T:.....			
	Previous work - defects (B3.6) F:..... V:..... T:.....			
53	Services - known (B3.7) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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Brought Forward			R	
54	Services - unknown (B3.8)			
	F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9)			
	F:..... V:..... T:.....	Item		
56	Articles of value (B3.10)			
	F:..... V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
57	Inspection of adjoining properties etc (B3.11)			
	F:..... V:..... T:.....	Item		
58	Management of the works (B4.1)			
	F:..... V:..... T:.....	Item		
59	Programme for the works (B4.2)			
	F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3)			
	F:..... V:..... T:.....	Item		
Carried Forward			R	
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	Brought Forward		R	
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
63	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
64	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
	<u>Temporary works and plant (B6)</u>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
75	Electricity (B7.3) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1) F:..... V:..... T:.....	Item		
80	Special attendance (B9.2) F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) Option [B] shall apply			
	F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply			
	F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4)			
	F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
85	Protection of works (B11.1)			
	F:..... V:..... T:.....	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F:..... V:..... T:.....	Item		
87	Security of the Works (B11.3)			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
88	Notice before covering work (B11.4) F:..... V:..... T:.....	Item		
89	Disturbance (B11.5) F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
92	Vermin (B11.8) F:..... V:..... T:.....	Item		
93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Schedule of variables (B12)</u>			
97	Pre-tender information (B12.1)			
	F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			
	No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete			
	No			
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	12.1.5 Geotechnical investigation (B3.2)			
	N/A			
	12.1.6 Existing premises occupied (B3.4)			
	12.1.7 Previous work - dimensional accuracy (B3.4)			
	12.1.8 Previous work - defects (B3.5)			
	12.1.9 Services - known (B3.7)			
	12.1.10 Protection of trees (B3.9)			
	All trees should be protected and only on instruction of the Principal Agent may any trees be removed			
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	Brought Forward		R	
12.1.12	Enclosure of the works (B6.2)			
12.1.11 (B3.11)	Inspection of adjoining properties			
12.1.13	Offices (B6.4.3)			
	An office for the clerck of works should be provided			
12.1.14	Main notice board (B6.5)			
	YES			
12.1.15	Subcontractors notice board (B6.6)			
	A notice board is required			
	No			
12.1.16	Water (B7.2)			
	Alternative Selected: A			
12.1.17	Electricity (B7.3)			
	Alternative selected: A			
12.1.18	Telecommunications (B7.4)			
12.1.19	Ablution facilities (B7.5)			
	Alternative selected: A			
12.1.20	Protection of existing/sectionally occupied works (B11.2)			
12.1.21	Special attendance (B9.2)			
	Subcontractor (1) details:			
	N/A			
12.1.22	Protection of the works (B11.1)			
	N/A			
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	Brought Forward		R	
	12.1.23 Disturbance (B11.5) N/A			
	12.1.24 Environmental Disturbance (B11.6) N/A			
	<u>Post tender information (B12.2)</u>			
	12.2.1 Payment of preliminaries Alternative selected: B			
	12.2.2 Adjustment of preliminaries Alternative selected: A			
	12.2.3 Additional agreed preliminaries items N/A			
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included			
98	Site instructions Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor F: V: T:	Item		
99	Black economic empowerment and training F: V: T:	Item		
	Carried Forward		R	
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	Brought Forward		R	
100	<p>Proprietary branded products</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item		
101	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative</p>	Item		
102	<p>Contract instructions</p> <p>F:..... V:.....</p> <p>T:.....</p> <p>Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor</p>	Item		
103	<p>Labour record</p> <p>F:..... V:.....</p> <p>T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
104	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>	Item		
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>	Item		
106	<p>Overtime</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	Brought Forward		R	
	<p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>			
107	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p>	Item		
	<p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>			
108	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item		
	<p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 1</u>			
	<u>DRY SANITATION TECHNOLOGY TOILETS</u>			
	<u>(ALL TRADES BILL)</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	This Bill of quantities should be read in conjunction with drawing no. RLM-DoE-S001, RLM-DoE-S002, RLM-DoE-S003, RLM-DoE-004, RLM-DoE-S005 attached to the back of the bill of quantities			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	224	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	224	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	12	
4	Pit	m3	30	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
5	Soft rock	m3	1	
6	Hard rock	m3	1	
	<u>Extra over all excavations for carting away:</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	30	
	Carried Forward		R	
	Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY			

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	Brought Forward			R	
	<u>Risk of collapse of excavations</u>				
8	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	87		
	<u>Keeping excavations free of water.</u>				
9	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavation and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
10	Backfilling to trenches, holes, etc.	m3	3		
	<u>Filling of G7 material supplied by contractor compacted to 95% Mod AASHTO density</u>				
11	Under Pits	m3	7		
12	Bottom and top of ecological pipe	m3	13		
	<u>Soilcrete mixture: 10% cement 32.5N with as 8% moisture content compacted in layers of 150mm</u>				
13	Sides of pit, etc.	m3	27		
	<u>Compaction of surfaces</u>				
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	24		
	<u>Prescribed density tests on filling</u>				
15	Modified AASHTO Density tests	No	3		
	<u>SOIL POISONING</u>				
	Carried Forward			R	
	Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY				

	Brought Forward			R	
	<u>Soil insecticide</u>				
16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	30		
17	To bottoms and sides of trenches, etc.	m2	114		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>UNREINFORCED CONCRETE, ETC</u>				
	<u>25Mpa/19mm Concrete</u>				
18	Strip footings	m3	0,3		
	<u>REINFORCED CONCRETE, ETC</u>				
	<u>25Mpa/19mm Concrete</u>				
19	Surface beds cast in panels on waterproofing	m3	3		
20	Concrete beams	m3	1		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
21	Surface beds, slabs, etc	m2	27		
	<u>MOVEMENT JOINTS ETC</u>				
22	"Sikaflex" sealing joint between pre-cast wall and concrete apron	m	12		
	<u>TEST CUBES</u>				
23	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	Sets	2,0		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY				

	Brought Forward			R	
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
	<u>Smooth formwork to sides:</u>				
24	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	79		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett)</u>				
25	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	30		
26	Drybag reinforcing	m2	20		
	<u>FLOOR AND WALLS SEALERS</u>				
	<u>550-770g tarpaulin dry bag folded over edges to create 100% tight seal</u>				
27	Bottom and sides panels	m2	258		
	<u>PRE-CAST CONCRETE DRY SANITATION TECHNOLOGY WATER TIGHT CONTAINER</u>				
	<u>Precast concrete panels including bedding, jointing and pointing in pits</u>				
28	1840mm x 900mm x 40mm Thick pre-cast reinforced concrete bottom panel (refer to drawing no. RLM-DOE-S001-S005 attached to the back of the bill of quantities)	No	9		
29	1250mm x 970mm x 30mm Thick pre-cast reinforced concrete side panel in suitable lengths, closely butted at ends including bedding edges along both sides (refer to drawing no. RLM-DOE-S001-S005 attached to the back of the bill of quantities)	No	18		
30	900mm x 970mm x 30mm Thick pre-cast reinforced concrete side panel in suitable lengths, closely butted at ends including bedding edges along both sides (refer to drawing no. RLM-DOE-S001-S005 attached to the back of the bill of quantities)	No	18		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY				

Brought Forward			R
<u>SUPERSTRUCTURE</u>			
<u>SUPPLY AND INSTALL DRY SANITATION TECHNOLOGY SUPERSTRUCTURE</u>			
31	1150x2040x40mm Thick pre-cast reinforced concrete base supported by 40mm pre-cast reinforced collar (refer to drawing no. RLM-DOE-S001,002,003,005 attached to the back of the bill of quantities)	No	8
32	1150x2040x40mm Thick pre-cast reinforced concrete roof with bitumen waterproofing laid to fall (refer to drawing no. RLM-DOE-S001,002,003,005 attached to the back of the bill of quantities)	No	8
33	1250 x1975mm high x 30mm Thick pre-cast reinforced concrete bottom and top panel with stainless steel H-channel in between (refer to drawing no. RLM-DOE-S001,002,003,005 attached to the back of the bill of quantities)	No	16
34	850mm wide x1975mm high x 30mm Thick pre-cast reinforced concrete bottom and top panel with stainless steel H-channel in between (refer to drawing no. RLM-DOE-S001,002,003,005 attached to the back of the bill of quantities)	No	8
<u>SUPPLY AND INSTALL DRY SANITATION TECHNOLOGY SUPERSTRUCTURE FOR DISABLED TOILETS</u>			
35	1800x2040x50mm Thick composite floor panel with 1,2mm stainless steel top skin on 18mm plywood, laminated on 27mm EPS on 0.5mm chromadek bottom skin (refer to drawing no. RLM-DOE-S004 attached to the back of the bill of quantities)	No	1
36	1860 x1975mm high x 30mm Thick EPS wall panel fixed to base channel and top angle with 6 x 4,8mm stainless steel rivets and sides and rear including chromadek louvers (sides and rear) (refer to drawing no. RLM-DOE-S004 attached to the back of the bill of quantities)	No	4
Carried Forward			R
Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY			

Brought Forward			R
37	1860 x1860mm x 40mm thick EPS roof panel fixed to inside and outside 1,2mm stainless steel angles with 8 x 4,8mm stainless steel rivets (refer to drawing no. RLM-DOE-S004 attached to the back of the bill of quantities)	No	1
38	1860 x 1,2mm stainless steel base channel fixed to base M6 normal RIV-nuts in base with 4 x M6 stainless steel bolts (refer to drawing no. RLM-DOE-S004 attached to the back of the bill of quantities)	No	4
39	1860 x 1,2mm stainless steel angle fixed to wall panel with 6 x 4,8mm stainless steel rivets (refer to drawing no. RLM-DOE-S004 attached to the back of the bill of quantities)	No	8
<u>CATCHES, CABIN, HOOKS, ETC</u>			
40	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	9
<u>LOCKS</u>			
<u>"ASSA ABLOY" or equal approved</u>			
41	Three Lever lockset	No	9
42	50mm Brass padlock	No	9
<u>DOORSTOPS</u>			
<u>"ASSA ABLOY"</u>			
43	38mm Diameter rubber door stop plugged	No	9
<u>LETTERS, NAMEPLATES, ETC.</u>			
<u>"Dorma":</u>			
44	DSS-132 Engraved "Male/Female" information sign, plugged	No	2
45	DSS-130 Engraved "Male" information sign, plugged	No	3
46	DSS-131 Engraved "Female" information sign, plugged	No	3
Carried Forward			R
Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY			

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	Brought Forward			R	
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>				
57	100 x 100mm Eaves gutters with beaded front edge	m	13		
58	Extra over for closed ends	No	10		
	<u>uPVC down pipe</u>				
59	38mm diameter uPVC rainwater downpipes fixed to wall with two sieves to filter water to tank	m	5		
60	Extra over rainwater pipe for eaves offset	No	5		
61	Ditto ,for shoe	No	5		
	<u>SUPPLY AND INSTALL DRY SANITATION TECHNOLOGY SYSTEM COMPLETE</u>				
	<u>SANITARY FITTINGS (PROVISIONAL)</u>				
62	Amalooloo high quality virgin material injection moulded pedestal with child safety seat and lid	No	8		
63	Amalooloo high quality virgin material injection moulded, amalooloo hand wash facility with cistern	No	8		
64	Amalooloo high quality virgin material injection moulded, amalooloo reservoir	No	8		
65	Stainless steel urinal with flushing system	No	2		
66	Amalooloo pre-cast concrete foot stool	No	2		
67	800mm diameter x 1130mm high 500 litre amalooloo rainwater storage tank with cover and lid supported on a pre-cast concrete base with a sign for washing of hands only and "Do Not Drink" sticker	No	5		
68	Supply and install complete steel tank stand for 500 Litres prefabricated tank (elsewhere)	No	5		
69	110mm diameter x 2500mm high black uPVC ventilation pipe with cowl and gauze on top	No	18		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY				

	Brought Forward			R	
	<u>PRECAST CONCRETE WASH HAND TROUGH</u>				
70	Standard SABS approved Pre-Cast Concrete Wash Trough, 525 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, including all necessary pipework including soak away approximately 10 meters away from the wash trough, sized at 1000 x 1000 x 1000mm covered with "bidim" complete etc	No	5		
	<u>TAPS, VALVES, ETC</u>				
71	15mm 111CP Pillartap	No	5		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
72	50mm Pipes	m	20		
73	20mm ecological pipe	m	40		
	<u>Extra over uPVC pipes for fittings</u>				
74	50mm Bend	No	1		
75	20mm Bend	No	3		
76	50mm Access bend	No	1		
77	50mm Junction	No	1		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
78	15mm Pipes	m	20		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
79	15mm Fittings	No	10		
	<u>SOAK AWAY</u>				
80	1m x 1m x 0,5m grey water seepage hole filled with graded rock	No	32		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS- ABT Bill No. 1 DRY SANITATION TECHNOLOGY				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>DEMOLITIONS</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.</p> <p>DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.</p> <p>PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.</p>			
	Carried Forward		R	
	<p>Section No. 3</p> <p>EXTERNAL WORKS</p> <p>Bill No. 1</p> <p>DEMOLITION</p>			

<p style="text-align: center;">Brought Forward</p> <p>PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.</p> <p>OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.</p> <p>MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 EXTERNAL WORKS Bill No. 1 DEMOLITION</p>		R	

Brought Forward			R
<p>Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.</p> <p>The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL</p> <p><u>HOARDING, TEMPORARY BARRIERS, SCREENS, ETC</u></p> <p><u>Corrugated iron hoarding fence following natural ground line including removal on completion</u></p>			
1	1800 mm High hoarding.	m	20
<u>DEMOLITIONS ETC</u>			
<u>NOTE</u>			
<i>Contractor rates for demolitions shall include for carting away and disposal of debris to a tip to be found by the contractor unless specific instructions otherwise</i>			
2	Take out and remove existing roof sheeting on and including timber structure and cartaway from site	m2	5
3	Break down and remove existing 90mm block wall	m2	30
4	Break down and remove existing 140mm block wall	m2	30
5	Demolish concrete slab	m3	2
6	Hardcore filling to pit	m3	10
7	Desludge and disinfect existing pit	Item	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
EXTERNAL WORKS			
Bill No. 1			
DEMOLITION			

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE APRONS AND RAMPS</u> <u>(PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>APRONS AROUND BUILDINGS</u>			
	<u>Compaction of surfaces</u>			
1	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	15	
	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
2	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	15	
	<u>Soil insecticide</u>			
3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	15	
	<u>15 MPa/20 mm concrete</u>			
4	Aprons cast in panels to falls	m3	1	
5	Ramps	m3	2	
6	<u>Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc</u>	m	51	
	Carried Forward		R	
	Section No. 3 EXTERNAL WORKS Bill No. 2 CONCRETE APRONS			

	Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
7	Aprons to falls	m2	15		
	<u>Smooth formwork to sides</u>				
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	51		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
9	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long	m2	15		
	<u>SUNDRIES</u>				
10	25mm impregnated expansion joint filler board between pre-cast wall and concrete	m	51		
11	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	Sets	1,0		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 2				
	CONCRETE APRONS				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>WALKWAYS</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u>			
	C - Site clearance			
	D - Earthworks			
	DM - Earthworks (Roads, subgrade)			
	M - Roads (General)			
	ME - Sub-base			
	MF - Base			
	MK - Kerb and Channeling			
	MM - Ancillary Roadworks			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	190	
	<u>Open face excavation in earth over sloping site</u>			
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m3	21	
3	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	21	
	Carried Forward		R	
	Section No. 3			
	EXTERNAL WORKS			
	Bill No. 3			
	PAVING			

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Brought Forward			R
4	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	21
5	Rip and scarify ground level to a depth of 150mm and consolidate to 100% mod. AASHTO density (minimum CBR 3)	m2	143
<u>Paving layers</u>			
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.			
Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit			
6	150mm Selected filling previously set aside compacted to 93% mod. AASHTO density	m3	21
7	150mm Imported G5 material compacted to 93% mod. AASHTO density	m3	21
<u>Prescribed density tests on filling</u>			
8	"Mod. AASHTO Density" test	No	3
<u>PAVING</u>			
<u>Interlocking paving</u>			
<u>"Concor Double Zig Zag" pre-cast concrete interlocking paving (35MPa Minimum compressive strength):</u>			
9	80mm Thick natural grey paving laid in herring bone pattern	m2	143
10	Weed-killing treatment of surface under paving	m2	143
11	Fig 7 kerb (PC Amount R150-00/m VAT excl.)	m	190
12	Straight cutting units to fit edge restraints	m	190
Carried Forward			R
Section No. 3 EXTERNAL WORKS Bill No. 3 PAVING			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>FENCING</u>			
	<u>EXCAVATIONS</u>			
	<u>Site Clearance,etc</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	70	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	11	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	0,3	
4	Hard rock	m3	1	
	<u>Extra over all excavations for carting away:</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	11	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	75	
	<u>Keeping excavations free of water.</u>			
7	Keeping excavations free of water other than subterranean water	Item		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	Carried Forward		R	
	Section No. 3 EXTERNAL WORKS Bill No. 4 FENCING AROUND GRADE R TOILETS			

Brought Forward			R
<u>UNREINFORCED CONCRETE, ETC</u>			
<u>25Mpa/19mm Concrete</u>			
8	Base	m3	1
<u>FENCING</u>			
<u>50 x 50mm Galvanized welded mesh fencing erected in strict accordance to the manufacturer's instructions</u>			
9	1800mm Galvanised 50 x 50mm welded mesh fixed to posts etc	m	70
10	Corner post size 2,2m high x 101mm diameter x 2mm thick with cap and baseplate and finished with silver bitumen primer fixed in concrete base (e/m)	No	4
11	Gate post size 2,2m high x 101mm diameter x 2mm thick with cap and baseplate and finished with silver bitumen primer fixed in concrete base (e/m)	No	2
12	Immediate post size 2,4m high x 101mm diameter x 2mm thick with cap and base plate and finished with silver bitumen primer fixed in concrete base (e/m)	No	12
13	Inclined stay size 2400mm x 48mm x 2mm thick with steel base plate fixed to concrete base (e/m)	No	34
14	2200mm Standard Y nailed into the ground	No	30
15	Pedestrian gate 1000 x 1800mm high to suit diamond mesh fencing covered with galvanised wire diamond mesh fixed to framing and cross brace including sliding lock	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3			
EXTERNAL WORKS			
Bill No. 4			
FENCING AROUND GRADE R TOILETS			

Carried Forward

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
8	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	23		
	<u>Approved soil insecticide</u>				
9	To bottom and sides of trenches, holes etc	m2	89		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
10	Strip footings	m3	6		
	<u>SUNDRIES</u>				
	<u>Test Blocks</u>				
11	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	Sets	1,0		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	23		
	<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14MPa nominal compressive strenght) in class I mortar in foundations</u>				
13	Piers in foundation	m3	2		
14	Half brick walls	m2	33		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 5 SCREEN WALL				

Brought Forward			R	
<u>FACE BRICKWORK</u>				
<u>Facebricks pointed with recessed horizontal and vertical joints</u>				
15	Face brick piers	m3	4	
16	Half brickwork for facebrick walls pointed both sides	m2	56	
17	Extra over brickwork for face brickwork in foundations	m2	10	
<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>				
18	Extra over coping	m	33	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
19	75mm Wide reinforcement built in horizontally	m	594	
Carried Forward to Summary of Section No. 3			R	
Section No. 3				
EXTERNAL WORKS				
Bill No. 5				
SCREEN WALL				

Carried to Final Summary

CLUSTER 09
TENDER NO: TMT-DBE-22/23-SAFE-LPCL09
CONSTRUCTION OF SANITATION FACILITIES
MANOTONG PRIMARY SCHOOL

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	PRELIMINARIES AND GENERAL	28		
2	BUILDING WORKS- ABT	38		
3	EXTERNAL WORKS	52		
	SUB TOTAL (A)		R	
	Provide 10% (TEN PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not required	%		
	SUB TOTAL (B)		R	
	Add VAlue Added Tax @ 15%		R	
	Carried to Final Cluster summary		R	