

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>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>		R	

	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>			
	Carried Forward		R	
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Brought Forward			R	
<u>Objective and Preparation (A2 to A14)</u>				
2	Offer acceptance and performance (clause 2)			
	F:..... V:..... T:.....	Item		
3	Documents (clause 3)			
	F:..... V:..... T:.....	Item		
4	Design responsibility (clause 4)			
	F:..... V:..... T:.....	Item		
5	Employer's agents (clause 5)			
	F:..... V:..... T:.....	Item		
	The principal agent shall:			
	- monitor and control progress and scheduling			
	- monitor all contract conditions, and			
	- coordinate the efforts of the employer's agents, the contractor and subcontractors			
	The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part			
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Brought Forward			R	
	<p>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</p>			
6	<p>Site representative (clause 6)</p> <p>F:..... V:..... T:.....</p>	Item		
7	<p>Compliance with regulations (clause 7)</p> <p>F:..... V:..... T:.....</p>	Item		
8	<p>Works risk (clause 8)</p> <p>F:..... V:..... T:.....</p>	Item		
9	<p>Indemnities (clause 9)</p> <p>F:..... V:..... T:.....</p>	Item		
10	<p>Works insurances (clause 10)</p> <p>F:..... V:..... T:.....</p>	Item		
11	<p>Liability insurances (clause 11)</p> <p>F:..... V:..... T:.....</p>	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> <p><u>Completion (A24-A30)</u></p>	Item		
24	<p>Practical completion (clause 24)</p> <p>F:..... V:..... T:.....</p>	Item		
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Brought Forward			R	
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:..... The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
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Brought Forward			R	
<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:.....	Item		
	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			
33	Recovery of expense and loss (clause 33)			
	F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34)			
	F:..... V:..... T:.....	Item		
	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			
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	<p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p>			
35	<p>Payment to other parties (clause 35)</p> <p>F:..... V:..... T:.....</p> <p><u>Cancellation (A36-A39)</u></p>	Item		
36	<p>Cancellation by employer - contractor's default (clause 36)</p> <p>F:..... V:..... T:.....</p>	Item		
37	<p>Cancellation by employer - loss and damage (clause 37)</p> <p>F:..... V:..... T:.....</p>	Item		
38	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>F:..... V:..... T:.....</p>	Item		
39	<p>Cancellation - cessation of the works (clause 39)</p> <p>F:..... V:..... T:.....</p>	Item		
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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: Afro Architectural			
	Carried Forward		R	
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<p style="text-align: center;">Brought Forward</p> <p>42.1.4 Quantity Surveyor:</p> <p>Structural :</p> <p>42.1.5 Civil:</p> <p>42.1.6 Electrical Engineer:</p> <p>42.1.6 Mechanical Engineer:</p> <p><u>42.2 CONTRACT DETAILS</u></p> <p>42.2.1 Works Description: Construction of sanitation facilities</p> <p>42.2.2 Site Description: as per the information on the tender data</p> <p>42.2.3 Work or installations by direct contractors: N/A</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given: UNKNOWN</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>		R	
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<p style="text-align: center;">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..... Penalty Amount</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: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>		R	
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<p style="text-align: center;">Brought Forward</p> <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> <p>42.4 DOCUMENTS</p> <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: center;"><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: center;">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> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>		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		
61	Technical meetings (B4.4)			
	F:..... V:..... T:.....	Item		
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Brought Forward			R	
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		
68	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
Carried Forward			R	
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Brought Forward			R	
69	Advertising (B6.3)			
	F:..... V:..... T:.....	Item		
70	Plant, equipment, sheds and offices (B6.4)			
	F:..... V:..... T:.....	Item		
71	Main notice board (B6.5)			
	F:..... V:..... T:.....	Item		
72	Subcontractors' notice board (B6.6)			
	F:..... V:..... T:.....	N/A		
	<u>Temporary services (B7)</u>			
73	Location (B7.1)			
	F:..... V:..... T:.....	Item		
74	Water (B7.2)			
	Option [A] shall apply			
	F:..... V:..... T:.....	Item		
75	Electricity (B7.3)			
	Option [A] shall apply			
	F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4)			
	F:..... V:..... T:.....	Item		
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Brought Forward			R	
77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:..... <u>Prime cost amounts (B8)</u>	Item		
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:..... <u>Attendance on N/S Subcontractors (B9)</u>	Item		
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:..... <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		
Carried Forward			R	
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	Brought Forward		R	
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		
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		
	Carried Forward		R	
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Brought Forward			R	
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		
<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
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<p style="text-align: center;">Brought Forward</p> <p>12.1.3 Interest of agents (B2.4)</p> <p>12.1.4 Defined works area (B3.1)</p> <p>12.1.5 Geotechnical investigation (B3.2)</p> <p>N/A</p> <p>12.1.6 Existing premises occupied (B3.4)</p> <p>12.1.7 Previous work - dimensional accuracy (B3.4)</p> <p>12.1.8 Previous work - defects (B3.5)</p> <p>12.1.9 Services - known (B3.7)</p> <p>12.1.10 Protection of trees (B3.9)</p> <p>All trees should be protected and only on instruction of the Principal Agent may any trees be removed</p> <p>12.1.12 Enclosure of the works (B6.2)</p> <p>12.1.11 Inspection of adjoining properties (B3.11)</p> <p>12.1.13 Offices (B6.4.3)</p> <p>An office for the clerk of works should be provided</p> <p>12.1.14 Main notice board (B6.5)</p> <p style="text-align: right;">YES</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>		R	
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<p style="text-align: center;">Brought Forward</p> <p>12.1.15 Subcontractors notice board (B6.6) A notice board is required <i>No</i></p> <p>12.1.16 Water (B7.2) Alternative Selected: A</p> <p>12.1.17 Electricity (B7.3) Alternative selected: A</p> <p>12.1.18 Telecommunications (B7.4)</p> <p>12.1.19 Ablution facilities (B7.5) Alternative selected: A</p> <p>12.1.20 Protection of existing/sectionally occupied works (B11.2)</p> <p>12.1.21 Special attendance (B9.2) Subcontractor (1) details: N/A</p> <p>12.1.22 Protection of the works (B11.1) N/A</p> <p>12.1.23 Disturbance (B11.5) N/A</p> <p>12.1.24 Environmental Disturbance (B11.6) N/A</p> <p><u>Post tender information (B12.2)</u></p> <p>12.2.1 Payment of preliminaries Alternative selected: B</p> <p>12.2.2 Adjustment of preliminaries Alternative selected: A</p> <p>12.2.3 Additional agreed preliminaries items N/A</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>		R	
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	Brought Forward		R	
	<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		
100	Proprietary branded products F: V: T:	Item		
101	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F: V: T: 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	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School			

	Brought Forward		R	
102	<p>Contract instructions</p> <p>F:..... V:..... 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:..... 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		
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>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>			

	Brought Forward		R	
	<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>			
106	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <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>	Item		
107	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>			

	Brought Forward		R	
	<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> <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> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item		
	Carried to Final Summary		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL Mapitikama Primary School</p>			

Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	67	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	67	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	8	
4	Pit	m3	23	
5	For aprons thickening	m3	2	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	2	
	<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 allocated by the Contractor	m3	25	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	47	
	Carried Forward		R	
	Section No. 2 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	8
12	Backfilling to trenches, holes, etc.	m3	4
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	23
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	25
15	Compaction of ground surface to aprons 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	29
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	4
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	23
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	5	
2	Ditto, but surface bed in pit	m3	23	
3	Aprons cast in panels	m3	3	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	33	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	11	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	2	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	23	
	Carried Forward		R	
	Section No. 2 BUILDING WORKS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Mapitikama Primary School			

Brought Forward			R
<u>TEST CUBES</u>			
8	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.	No	4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
9	Surface beds, slabs, etc.	m2	25
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	33
<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	12
12	Leave or form 500mm diameter opening in top of floor slab	No	4
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	23
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.4</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</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 style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School</p>			

Brought Forward			R	
<u>SAMPLES</u>				
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
<u>FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
1	One brick walls	m2	9	
2	One brick walls in pit	m2	15	
3	4Half brick corbelling in pit	m	6	
<u>FACE BRICKWORK</u>				
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
4	Extra over brickwork for face brickwork in foundation	m2	4	
<u>SUPERSTRUCTURE</u>				
<u>FACE BRICKWORK</u>				
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
5	Half brickwork for face brick walls pointed both sides	m2	21	
6	One brickwork for face brick walls pointed both sides	m2	57	
7	Extra over brickwork for face brickwork in beamfilling	m2	4	
8	Fair raking and cutting	m	11	
Carried Forward			R	
Section No. 2 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School				

Brought Forward			R	
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>			
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	8	
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6	
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	6	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	125	
13	150mm Wide reinforcement built in horizontally	m	362	
	<u>Turning pieces</u>			
14	220mm Wide turning piece to lintel etc	m	7	
	<u>Galvanised wire ties etc</u>			
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	11	
	<u>Prestressed fabricated lintels</u>			
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9	
	<u>Ventillation bricks</u>			
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.5</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	5	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	25	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames.	m	12	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 4 WATERPROOFING Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	29	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	29	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	9	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 5 ROOF COVERINGS Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	33	
2	76 x 38mm Wall plates	m	19	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	42	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	33	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	11	
6	Hurricane clips	No	18	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	22	
	<u>DOORS, ETC.</u>			
	Carried Forward		R	
	Section No. 2 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School			

Brought Forward			R
<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	1	
3	Indicator lockset	No	4	
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
4	38mm Diameter rubber door stop plugged	No	5	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
6	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 7 IRONMONGERY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.9</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 4		
	<u>1.6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 1		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No 6		
4	Window type NE 7, 1022 x 654mm high including burglar bars	No 3		
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 1		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 8 METALWORK Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	25	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	15	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	25	
4	On internal textured plaster walls and floors in pit	m2	25	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 9 IN SITU FINISHES Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Collect and Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only. Enviroloo supplied by others)	No 5		
2	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No 1		
	<u>INSTALLATION OF "ENVIRO LOO"</u>			
3	Allow the provisional sum of R 42 000.00 (Fourty Two Thousand Hundred Rand) for installation of Enviroloo system	Item		42,000.00
4	Profit and attendance	Item		
	<u>FITTINGS</u>			
5	19mm chrome plated push button taps to wash troughs	No 2		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 10 PLUMBING AND DRAINAGE Mapitikama Primary School			

Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u> <u>GLAZING</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>GLAZING TO STEEL WITH PUTTY</u> <u>6.38mm Obscure safety glass</u>			
1	Panes not exceeding 0,1 m2	m2	4
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 11 GLAZING Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	6	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	16	
3	On doors (External)	m2	4	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	3	
5	On gates (Measured over the full flat area of both sides)	m2	3	
6	On gutters and down pipes	m	9	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	8	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WORKS Bill No. 12 PAINTWORK Mapitikama Primary School			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	134	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	134	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	14	
4	Pit	m3	29	
5	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	2	
7	Hard rock	m3	3	
	<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 allocated by the Contractor	m3	31	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	98	
	Carried Forward		R	
	Section No. 3 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	8
12	Backfilling to trenches, holes, etc.	m3	7
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	32
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	17
15	Compaction of ground surface to aprons 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	29
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	7
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	32
Carried Forward			R
Section No. 3 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

Brought Forward			R
18	To bottom of concrete aprons	m2	17
19	To bottoms and sides of trenches, etc.	m2	132
Carried Forward to Summary of Section No. 3			R
Section No. 3 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	4	
2	Ditto, but surface bed in pit	m3	2	
3	Aprons cast in panels	m3	2	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	17	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	23	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	4	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	15	
	Carried Forward		R	
	Section No. 3 BUILDING WORKS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Mapitikama Primary School			

Brought Forward			R
<u>TEST CUBES</u>			
8	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.	No	7
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
9	Surface beds, slabs, etc.	m2	41
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	20
<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	12
12	Leave or form 500mm diameter opening in top of floor slab	No	13
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	41
Carried Forward to Summary of Section No. 3			R
Section No. 3			
BUILDING WORKS			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.4</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</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 style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 3 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School</p>			

Brought Forward			R
<u>SAMPLES</u>			
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	15
2	One brick walls in pit	m2	23
3	Half brick corbelling in pit	m	17
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	6
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	32
6	One brickwork for face brick walls pointed both sides	m2	85
7	Extra over brickwork for face brickwork in beamfilling	m2	6
8	Fair raking and cutting	m	6
Carried Forward			R
Section No. 3 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School			

Brought Forward				R
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>			
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	11	
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	11	
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	11	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	127	
13	150mm Wide reinforcement built in horizontally	m	228	
	<u>Turning pieces</u>			
14	220mm Wide turning piece to lintel etc	m	9	
	<u>Galvanised wire ties etc</u>			
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	23	
	<u>Prestressed fabricated lintels</u>			
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	12	
	<u>Ventillation bricks</u>			
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	6	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	48	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Sundries</u>			
	<u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u>			
2	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	48	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	10	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	1	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS Bill No. 5 ROOF COVERINGS Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	53	
2	76 x 38mm Wall plates	m	16	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	43	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	13	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	23	
6	Hurricane clips	No	24	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	25	
	<u>DOORS, ETC.</u>			
	Carried Forward		R	
	Section No. 3 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School			

Brought Forward			R
<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	2
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	8
Carried Forward to Summary of Section No. 3			R
Section No. 3 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	8	
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
4	38mm Diameter rubber door stop plugged	No	2	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
5	75 x 150mm Natural anodised aluminium plate with female symbol	No	2	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
6	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	8	
	Carried Forward		R	
	Section No. 3 BUILDING WORKS Bill No. 7 IRONMONGERY Mapitikama Primary School			

Brought Forward			R	
	<u>Sundries</u>			
7	Female she-bins	No	8	
Carried Forward to Summary of Section No. 3			R	
Section No. 3				
BUILDING WORKS				
Bill No. 7				
IRONMONGERY				
Mapitikama Primary School				

Item No		Quantity	Rate	Amount
	<u>BILL NO.9</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	8	
	<u>1.6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard industrial windows with type "B1" burglar bars to opening sashes</u>			
3	Window type NE1, 533 x 654mm high	No	8	
4	Window type NE 7,1022 x 654mm high	No	4	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	2	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS Bill No. 8 METALWORK Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	42	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	42	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	42	
4	On internal textured plaster walls and floors in pit	m2	113	
	<u>EPOXY</u>			
5	Epoxy finish to floors	m2	113	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS Bill No. 9 IN SITU FINISHES Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Collect from the supplier, Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only. Enviroloo supplied by others)	No 8		
2	Supply and install pre-cast concrete double wash-trough, complete with all necessary fittings and pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No 2		
	<u>INSTALLATION OF "ENVIRO LOO"</u>			
3	Allow the provisional sum of R 60 000.00 (Sixty Thousand Hundred Rand) for installation of Enviroloo system	Item		60,000.00
4	Profit and attendance	Item		
	<u>TAPS, VALVES, ETC</u>			
5	19mm Chromium plated push-button taps to wash troughs	No 4		
	<u>Sundries</u>			
6	Stainless-steel SHE-BIN plugged to walls	No 2		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS Bill No. 10 PLUMBING AND DRAINAGE Mapitikama Primary School			

Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u> <u>GLAZING</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>GLAZING TO STEEL WITH PUTTY</u> <u>6.38mm Obscure safety glass</u>			
1	Panes not exceeding 0,1 m2	m2	5
Carried Forward to Summary of Section No. 3			R
Section No. 3 BUILDING WORKS Bill No. 11 GLAZING Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	16	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	3	
3	On doors (External)	m2	25	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	9	
5	On gates (Measured over the full flat area of both sides)	m2	11	
6	On Gutters and downpipes	m	22	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	11	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS Bill No. 12 PAINTWORK Mapitikama Primary School			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	100	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	100	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	13	
4	Pit	m3	33	
5	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	5	
7	Hard rock	m3	2	
	<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 allocated by the Contractor	m3	10	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	49	
	Carried Forward		R	
	Section No. 4 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	5
12	Backfilling to trenches, holes, etc.	m3	39
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	38
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	22
15	Compaction of ground surface to aprons 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	27
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	4
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	33
Carried Forward			R
Section No. 4 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	5	
2	Ditto, but surface bed in pit	m3	2	
3	2Aprons cast in panels	m3	3	
4	Ramp	m3	1	
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	25	
6	Thickening down apron on edge 110mm deep x 200mm wide	m	25	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls	m2	25	
	Carried Forward			
	Section No. 4 BUILDING WORKS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Mapitikama Primary School		R	

Brought Forward			R
<u>TEST CUBES</u>			
9	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.	No	4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc.	m2	33
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28
<u>Permanent formwork to soffits:</u>			
12	Slabs propped up not exceeding 1.5m high	m2	3
13	Leave or form 500mm diameter opening in top of floor slab	No	5
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	33
Carried Forward to Summary of Section No. 4			R
Section No. 4			
BUILDING WORKS			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.4</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</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 style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 4 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School</p>			

Brought Forward				R
<u>SAMPLES</u>				
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
<u>FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
1	One brick walls	m2	15	
2	One brick walls in pit	m2	18	
3	4Half brick corbelling in pit	m	25	
<u>FACE BRICKWORK</u>				
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
4	Extra over brickwork for face brickwork in foundation	m2	4	
<u>SUPERSTRUCTURE</u>				
<u>FACE BRICKWORK</u>				
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
5	Half brickwork for face brick walls pointed both sides	m2	23	
6	One brickwork for face brick walls pointed both sides	m2	62	
7	Extra over brickwork for face brickwork in beamfilling	m2	6	
8	Fair raking and cutting	m	11	
Carried Forward				R
Section No. 4 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School				

Brought Forward			R
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>		
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	9
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	11
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2
	<u>BRICKWORK SUNDRIES</u>		
	<u>Brick reinforcement</u>		
12	75mm Wide reinforcement built in horizontally	m	76
13	150mm Wide reinforcement built in horizontally	m	260
	<u>Turning pieces</u>		
14	220mm Wide turning piece to lintel etc	m	6
	<u>Galvanised wire ties etc</u>		
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	27
	<u>Prestressed fabricated lintels</u>		
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	8
	<u>Ventillation bricks</u>		
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8
	Carried Forward to Summary of Section No. 4		R
	Section No. 4 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School		

Item No		Quantity	Rate	Amount
	<u>BILL NO.5</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	6	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	32	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames.	m	11	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS Bill No. 4 WATERPROOFING Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	36	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	37	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS Bill No. 5 ROOF COVERINGS Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	42	
2	76 x 38mm Wall plates	m	8	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	47	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	29	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	18	
6	Hurricane clips	No	24	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	25	
	<u>DOORS, ETC.</u>			
	Carried Forward		R	
	Section No. 4 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School			

Brought Forward			R	
<u>Wrought meranti doors hung to steel frames</u>				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	3	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	3	
Carried Forward to Summary of Section No. 4			R	
Section No. 4 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School				

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	3	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	3	
3	Indicator lockset	No	3	
	<u>HANDLES</u>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	6	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	3	
	Carried Forward		R	
	Section No. 4 BUILDING WORKS Bill No. 7 IRONMONGERY Mapitikama Primary School			

Brought Forward			R
	<u>"Vaal Paragon" or similar approved</u>		
7	32mm Type 9 back grab rail 800mm long plugged	No	1
8	32mm Type 8 side grab rail 900mm girth plugged	No	1
<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Simlilar</u>		
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4
	<u>Stainless steel</u>		
10	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	1
	<u>Sundries</u>		
11	Female SHE BIN plugged to walls	No	1
Carried Forward to Summary of Section No. 4			R
Section No. 4 BUILDING WORKS Bill No. 7 IRONMONGERY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.9</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 3		
	<u>1.6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 3		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No 5		
4	Window type NE 7,1022 x 654mm high including burglar bars	No 2		
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 3		
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS Bill No. 8 METALWORK Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	32	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	18	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	32	
4	On internal textured plaster walls and floors in pit	m2	18	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS Bill No. 9 IN SITU FINISHES Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Collect and Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only. Enviroloo supplied by others)	No 4		
2	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No 1		
	<u>INSTALLATION OF "ENVIRO LOO"</u>			
3	Allow the provisional sum of R 40 000.00 (Fourty Thousand Hundred Rand) for installation of Enviroloo system	Item		40,000.00
4	Profit and attendance	Item		
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
5	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No 1		
6	Elbow taps	No 2		
	<u>FITTINGS</u>			
7	19mm chrome plated push button taps to wash troughs	No 2		
	<u>Sundires</u>			
8	Stainless-steel SHE-BIN plugged to walls	No 1		
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS Bill No. 10 PLUMBING AND DRAINAGE Mapitikama Primary School			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	5	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	13	
3	On doors (External)	m2	11	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	13	
5	On gates (Measured over the full flat area of both sides)	m2	11	
6	On gutters and down pipes	m	14	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	6	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS Bill No. 12 PAINTWORK Mapitikama Primary School			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	95	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	52	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	5	
4	Pit	m3	15	
5	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	1	
7	Hard rock	m3	2	
	<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 allocated by the Contractor	m3	30	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	20	
	Carried Forward		R	
	Section No. 5 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	4
12	Backfilling to trenches, holes, etc.	m3	7
	<u>Compaction of surfaces</u>		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	12
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	10
15	Compaction of ground surface to aprons 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	15
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	4
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	14
Carried Forward			R
Section No. 5 BUILDING WORKS Bill No. 1 EARTHWORKS Mapitikama Primary School			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	2	
2	Ditto, but surface bed in pit	m3	1	
3	2Aprons cast in panels	m3	1	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	1	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	1	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
6	Slabs	m3	2	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Aprons and pavings to falls	m2	20	
	Carried Forward		R	
	Section No. 5 BUILDING WORKS Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT Mapitikama Primary School			

Brought Forward			R
<u>TEST CUBES</u>			
8	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.	No	4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
9	Surface beds, slabs, etc.	m2	24
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	23
<u>Permanent formwork to soffits:</u>			
11	Slabs propped up not exceeding 1.5m high	m2	3
12	Leave or form 500mm diameter opening in top of floor slab	No	4
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	24
Carried Forward to Summary of Section No. 5			R
Section No. 5			
BUILDING WORKS			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.4</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</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 style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 5 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School</p>			

Brought Forward			R	
<u>SAMPLES</u>				
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
<u>FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
1	One brick walls	m2	5	
2	One brick walls in pit	m2	26	
3	4Half brick corbelling in pit	m	19	
<u>FACE BRICKWORK</u>				
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
4	Extra over brickwork for face brickwork in foundation	m2	4	
<u>SUPERSTRUCTURE</u>				
<u>FACE BRICKWORK</u>				
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
5	Half brickwork for face brick walls pointed both sides	m2	3	
6	One brickwork for face brick walls pointed both sides	m2	47	
7	Half brickwork for face brickwork in beamfilling	m2	2	
8	Fair raking and cutting	m	11	
Carried Forward			R	
Section No. 5 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School				

Brought Forward			R
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>		
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	5
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4
<u>BRICKWORK SUNDRIES</u>			
<u>Brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	58
13	150mm Wide reinforcement built in horizontally	m	130
<u>Turning pieces</u>			
14	220mm Wide turning piece to lintel etc	m	5
<u>Galvanised wire ties etc</u>			
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	14
<u>Prestressed fabricated lintels</u>			
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9
<u>Ventillation bricks</u>			
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	6
Carried Forward to Summary of Section No. 5			R
Section No. 5 BUILDING WORKS Bill No. 3 MASONRY Mapitikama Primary School			

Item No	Quantity	Rate	Amount
<u>BILL NO.5</u>			
<u>WATERPROOFING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	4
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	10
<u>FLOOR AND WALLS SEALERS</u>			
<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames.	m	16
Carried Forward to Summary of Section No. 5			R
Section No. 5 BUILDING WORKS Bill No. 4 WATERPROOFING Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	27	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	14	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	5	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	3	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	1	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 5 ROOF COVERINGS Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	37	
2	76 x 38mm Wall plates	m	9	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	35	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	20	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	14	
6	Hurricane clips	No	24	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	21	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 6 CARPENTRY AND JOINERY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	1	
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
3	38mm Diameter rubber door stop plugged	No	1	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
4	75 x 150mm Natural anodised aluminium plate with Grade R ymbol	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
5	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 7 IRONMONGERY Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO.9</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	4	
	<u>1.6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	4	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	2	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 8 METALWORK Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	14	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	33	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	14	
4	On internal textured plaster walls and floors in pit	m2	40	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 9 IN SITU FINISHES Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Supply and Erect "Enviroloo" set up and fixed complete as per manufacturers instruction (This item allows for the installation of the Enviroloo system only. Enviroloo supplied by others)	No 4		
2	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No 1		
	<u>INSTALLATION OF "ENVIRO LOO"</u>			
3	Allow the provisional sum of R 30 000.00 (Thirty Thousand Hundred Rand) for installation of Enviroloo system	Item		30,000.00
4	Profit and attendance	Item		
	<u>FITTINGS</u>			
5	19mm chrome plated push button taps to wash troughs	No 2		
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 10 PLUMBING AND DRAINAGE Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	<u>6.38mm Obscure safety glass</u>			
1	Panes not exceeding 0,1 m2	m2	3	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 11 GLAZING Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	10	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (External)	m2	4	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
3	On door frames	m2	2	
4	On gates (Measured over the full flat area of both sides)	m2	3	
5	On gutters and down pipes	m	3	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
6	On windows with burglar bars	m2	5	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS Bill No. 12 PAINTWORK Mapitikama Primary School			

Bill No	Section No. 5 BUILDING WORKS <u>SECTION SUMMARY - BUILDING WORKS</u>	Page No	Amount
1	EARTHWORKS	89	
2	CONCRETE, FORMWORK AND REINFORCEMENT	91	
3	MASONRY	94	
4	WATERPROOFING	95	
5	ROOF COVERINGS	96	
6	CARPENTRY AND JOINERY	97	
7	IRONMONGERY	98	
8	METALWORK	99	
9	IN SITU FINISHES	100	
10	PLUMBING AND DRAINAGE	101	
11	GLAZING	102	
12	PAINTWORK	103	
Carried to Final Summary			R
Section No. 5 BUILDING WORKS Mapitikama Primary School			

Item No		Quantity	Rate	Amount
	<u>PROVISIONAL SUMS</u> All the provisional sums cover supply of material and equipment and installation where applicable by firms of specialists. Provisional sums are net and do not include builder's discount, but the Tenderer may allow under "Profit" items any profit he considers necessary. The Tenderer is referred to Clause 87.1 and 87.2 in the "Preliminaries" section for the definition and adjustment of "General Attendance". <u>N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE</u> <u>Demolition of existing toilet structures</u>			
1	Allow the Provisional Amount of R144 000.00 (ONE HUNDRED AND FORTY FOUR THOUSAND RAND) NET for demolition of delapidated toilets structure	Item		144,000.00
	<u>Walkways,etc</u>			
2	Allow the provisional amount of R232,000.00 (TWO HUNDRED AND THIRTY TWO THOUSAND RANDS) NET for 1,2m wide walkways	Item		
	<u>Storm water, etc</u>			
3	Allow the Provisional Amount of R120 000.00 (One Hundred and Twenty Thousand One hundred Rand) for construction of storm water control	Item		120,000.00
	<u>Refurbishment and upgrading of existing borehole</u>			
4	Allow the Provisional Amount of R240 000.00 (TWO HUNDRED AND FORTY THOUSAND RAND) NET for refurbishment of existing boreholes	Item		240,000.00
	Carried Forward		R	
	Section No. 6 PROVISIONAL SUMS Bill No. 1 Provisional sums Mapitikama Primary School			

Brought Forward			R	
<u>Water reticulations, etc</u>				
5	Allow the Provisional Amount of R6,500.00 (SIX THOUSAND FIVE HUNDRED RANDS) NET for lockable fabricated steelmanhole for borehole pump including lock, etc	Item		
6	Allow the Provisional Amount of R18,500.00 (EIGHTEEN THOUSAND FIVE HUNDRED) NET rainwater harvesting complete per new block including leaf catchers	Item		
7	Allow the Provisional Amount of R25,000.00 (TWENTY FIVE THOUSAND RANDS) NET for structural steel stands	Item		
8	Allow the Provisional Amount of R25,000.00 (TWENTY FIVE THOUSAND RANDS) NET for stand pipes	Item		
<u>REFURBUSHMENT OF ENVIRO LOO TOILETS</u>				
9	Allow the Provisional Amount of R 80 000.00 (EIGHTY THOUSAND RAND) for refurbishment of existing enviroloo toilets	Item		80,000.00
<u>Fencing</u>				
10	Allow the Provisional Amount of R617 000.00 (SIX HUNDRED AND SEVENTEEN THOUSAND RAND) for supply and installation of steel palisade fence, including single pedestrian gate and motor gate	Item		617,000.00
<u>Protective urinal screens</u>				
11	Allow the Provisional Amount of R3 200.00 (TWO THOUSAND FIVE HUNDRED RAND) for supply and instalation of protective urinal screens	Item		3,200.00
12	Profit and attendance	Item		
<u>Protective SHE-BIN cages (female toilets only)</u>				
13	Allow the Provisional Amount of R3 200.00 (ONE THOUSAND RAND) for supply and installation of protective steel cage to female she-bins	Item		12,800.00
14	Profit and attendance	Item		
Carried to Final Summary			R	
Section No. 6 PROVISIONAL SUMS Bill No. 1 Provisional sums Mapitikama Primary School				

Section No	FINAL SUMMARY	Page No		Amount
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2	BUILDING WORKS	46		
3	BUILDING WORKS	66		
4	BUILDING WORKS	86		
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6	PROVISIONAL SUMS	106		
	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	% 10.00		
	SUB TOTAL (B)		R	
	Add VAlue Added Tax @ 15%		R	
	Carried to Final Cluster summary		R	
	Mapitikama Primary School			