

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<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>			
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PREAMBLES FOR TRADES

The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles

GENERAL

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

1 Definitions and interpretation (clause 1)

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

Item

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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	
<p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part</p>			
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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:.....		Item	
<p>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</p>				
		Carried Forward		R
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		Brought Forward		R
19	Assignment (clause 19) F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer		Item	
20	Nominated subcontractors (clause 20) F:..... V:..... T:.....		Item	
21	Selected subcontractors (clause 21) F:..... V:..... T:..... 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 All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors		Item	
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....		Item	
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....		Item	
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24) F:..... V:..... T:.....		Item	
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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	
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....		Item	
		Carried Forward		R
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Brought Forward			R
32	<p>Adjustment to the contract value (clause 32)</p> <p>F:..... V:..... T:.....</p> <p>Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing</p>	Item	
33	<p>Recovery of expense and loss (clause 33)</p> <p>F:..... V:..... T:.....</p>	Item	
34	<p>Final account and final payment (clause 34)</p> <p>F:..... V:..... T:.....</p> <p>The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p>	Item	
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		Brought Forward		R
35	Payment to other parties (clause 35) F:..... V:..... T:.....		Item	
<u>Cancellation (A36-A39)</u>				
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....		Item	
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....		Item	
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....		Item	
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....		Item	
<u>Dispute (A40)</u>				
40	Dispute Settlement (clause 40) F:..... V:..... T:.....		Item	
<u>Substitute Provisions (A41)</u>				
41	State clauses (Clause 41) F:..... V:..... T:.....		Item	
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	Brought Forward		R
<p>Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>			
<p><u>THE SCHEDULE</u></p>			
<p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>			
<p>42 Pre-tender information (clause 42)</p>			
<p>F:..... V:.....</p>			
<p>T:.....</p>		Item	
<p><u>42.1 CONTRACTING AND OTHER PARTIES</u></p>			
<p>42.1.1</p>			
<p>Employer: As per information on the tender data</p>			
<p>42.1.2</p>			
<p>Principal Agent: As per the information on the Tender data</p>			
<p>42.1.3</p>			
<p>Architect:</p>			
<p>42.1.4</p>			
<p>Quantity Surveyor:</p>			
<p>Structural :</p>			
<p>42.1.5 Civil:</p>			
<p>42.1.6</p>			
<p>Electrical Engineer:</p>			
<p>42.1.6</p>			
<p>Mechanical Engineer:</p>			
	Carried Forward		R
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	Brought Forward		R	
<u>42.2 CONTRACT DETAILS</u>				
42.2.1 Works Description: Construction of sanitation facilities				
42.2.2 Site Description: as per the information on the tender data				
42.2.3 Work or installations by direct contractors: N/A				
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only Yes				
42.2.5 Date on which possession of the site is intended to be given: UNKNOWN				
42.2.6 Period for the commencement of the works after the contractor takes possession				
42.2.7 For the works as a whole . Intended date of practical completion and the penalty per calendar day 3 months after contractual commencement date <i>Date</i> <i>Penalty Amount</i> <i>The penalty per calendar day shall be 0.05% of the tender amount (inclusive of value added tax)</i>				
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<p align="right">Brought Forward</p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calender day</p> <p align="right">Section 1 .N/A..... <i>Date</i></p> <p align="right">R.N/A..... <i>Penalty Amount</i></p> <p>42.2.9 The law applicable to this agreement shall be that of</p> <p 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 align="right"><i>Contractor:</i></p> <p align="right"><i>For the Sum of R Contract Amount + 20.00 %</i></p> <p 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 align="right"><i>No</i></p> <p>42.3.3 Public liability insurance to be effected by:</p> <p align="right"><i>Contractor:</i></p> <p align="right"><i>For the Sum of R 2 500 000-00</i></p> <p align="right"><i>With a deductible of - to be determined by the contractor</i></p> <p><u>42.4 DOCUMENTS</u></p> <p>42.4.1 Waivers of contractors lien or right of continuing possession is required</p> <p align="right"><i>Yes</i></p> <p>42.4.2 Number of construction document copies to be supplied to the contractor free of charge:</p> <p align="right">3 Number of</p> <p align="right">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		<p align="center">R</p>	
		R	

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42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: “Standard System of Measuring Builders’ Work”				
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days <i>The priced bills of quantities must be handed in with the tender</i>				
42.4.5 JBCC Engineering General Conditions are to be included in the contract documents:	No			
42.4.6 The contract value is to be adjusted using escalation adjustment indices	NO			
42.4.7 Details of changes made to the provision of JBCC standard documentation:				
<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		
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	Brought Forward		R	
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
48	Priced documents (B2.5) F:..... V:..... T:.....	Item		
49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
50	Defined works area (B3.1) F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
	Existing premises occupied (B3.4) F:..... V:..... T:.....			
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	Brought Forward		R	
	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		
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		
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		Brought Forward		R
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	
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	
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		<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	
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	
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		Brought Forward		R
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	
77	Ablution facilities (B7.5)	Option [A] shall apply		
	F:..... V:..... T:.....		Item	
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1)			
	F:..... V:..... T:.....		Item	
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1)			
	F:..... V:..... T:.....		Item	
80	Special attendance (B9.2)			
	F:..... V:..... T:.....		Item	
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Brought Forward			R
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item	
<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item	
82	Payment of preliminaries (B10.2) <p align="right">Option [B] shall apply</p> F:..... V:..... T:.....	Item	
83	Adjustment of preliminaries (B10.3) <p align="right">Option [A] shall apply</p> 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	
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		Brought Forward		R
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	
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	
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	Brought Forward			R
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
	<u>Schedule of variables (B12)</u>			
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No			
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	12.1.5 Geotechnical investigation (B3.2) N/A			
	12.1.6 Existing premises occupied (B3.4)			
	12.1.7 Previous work - dimensional accuracy (B3.4)			
	12.1.8 Previous work - defects (B3.5)			
	12.1.9 Services - known (B3.7)			
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12.1.10	Protection of trees (B3.9) All trees should be protected and only on instruction of the Principal Agent may any trees be removed	
12.1.12	Enclosure of the works (B6.2)	
12.1.11 (B3.11)	Inspection of adjoining properties	
12.1.13	Offices (B6.4.3) An office for the clerck of works should be provided	
12.1.14	Main notice board (B6.5) YES	
12.1.15	Subcontractors notice board (B6.6) A notice board is required No	
12.1.16	Water (B7.2) Alternative Selected: A	
12.1.17	Electricity (B7.3) Alternative selected: A	
12.1.18	Telecommunications (B7.4)	
12.1.19	Ablution facilities (B7.5) Alternative selected: A	
12.1.20	Protection of existing/sectionally occupied works (B11.2)	
12.1.21	Special attendance (B9.2) Subcontractor (1) details: N/A	
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	Brought Forward		R
	12.1.22 Protection of the works (B11.1) N/A		
	12.1.23 Disturbance (B11.5) N/A		
	12.1.24 Environmental Disturbance (B11.6) N/A		
	<u>Post tender information (B12.2)</u>		
	12.2.1 Payment of preliminaries Alternative selected: B		
	12.2.2 Adjustment of preliminaries Alternative selected: A		
	12.2.3 Additional agreed preliminaries items N/A		
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
	Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included		
98	Site instructions Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor F: V:..... T:.....	Item	
99	Black economic empowerment and training F:..... V:..... T:.....	Item	
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		Brought Forward		R
100	<p>Proprietary branded products</p> <p>F:..... V:..... T:.....</p>		Item	
101	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative</p>		Item	
102	<p>Contract instructions</p> <p>F:..... V:..... 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	
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104	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>		Item	
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>		Item	
106	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <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	
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107	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <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>	Item		
108	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>			
	Carried to Final Summary			R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></p> <p>For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"</p> <p align="center">-----</p> <p><u>TEMPORARY BARRIERS, SCREENS, ETC</u></p> <p><u>Temporary barriers, screens, etc including removal</u></p>			
1	Shade netting barrier 2000mm high formed of steel channel section rails, etc	m	295	
	<p><u>DEMOLITIONS ETC</u></p> <p><u>DEMOLITION OF EXISTING TOILET STRUCTURES</u></p>			
2	Single storey six pit latrines with pitched roof approximately combined area of 26m ² on plan and 3m high at eaves comprising concrete surface bed, one brick external walls, one brick and half brick internal walls and corrugated roof covering on prefabricated timber trusses including removal of foundation brickwork, strip footings and aprons including, backfilling, cart away etc.of all rubble and leaving no visible sign of the building (hand over usable items to school)	No	2	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 1 ALTERATIONS			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORKS</u></p> <p><u>BILL NO.2</u></p> <p><u>EARTHWORKS</u></p> <p><u>EARTHWORKS TRADE PREAMBLES</u></p> <p><u>Trade Preambles:</u></p> <p>For Trade Preambles refer to 'Specification of Materials and Methods' (PW371) for the full descriptions of material to be used and work to be done in this Bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials:</u></p> <p>Proprietary items or materials where specified are to be of the brand specified -or other approved -by the Principal Agent</p> <p><u>Nature of ground:</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities</p> <p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling:</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.</p> <p><u>SITE CLEARANCE</u></p> <p><u>Site clearance</u></p>			
1	Digging up and removing rubbish, debris, vegetation , hedges, shrubs ,bush, etc and tress not exceeding 200mm girth.	m2	538	
	Carried Forward			R
	Section No. 2 Bill No. 2 EARTHWORKS			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site.	m2	538
<u>EXCAVATIONS ETC</u>			
<u>Open face excavation in earth over sloping site</u>			
3	Open face excavation	m3	80
4	To remove sloping banks	m3	60
<u>EXCAVATION OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
5	Reduced levels under floors	m3	26
6	Trenches	m3	69
7	Pits	m3	180
<u>Excavation in earth exceeding 2m and not exceeding 4m</u>			
8	Pits	m3	15
<u>Extra over excavations other than in earth for excavation in</u>			
9	Soft rock	m3	100
10	Hard rock	m3	100
<u>Risk of collapse of excavations other than bulk</u>			
11	Sides of trench and hole excavations not exceeding 1,5m deep	m2	280
12	Side of trench and hole excavations exceeding 1,5m deep.	m2	170
<u>CARTING AWAY</u>			
Carried Forward			R
Section No. 2 Bill No. 2 EARTHWORKS			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>UNREINFORCED CONCRETE</u>			
	<u>25MPa/19mm Concrete</u>			
1	<u>Filling of cavity wall</u>	m3	4	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm Concrete</u>			
2	Raft foundations	m3	23	
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm Concrete</u>			
3	Surface beds cast in panels on waterproofing	m3	25	
4	Slabs including beams and inverted beams. (Pits)	m3	17	
	<u>FINISHING TOP SURFACE OF CONCRETE</u>			
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
5	Surface beds, slabs, etc	m2	128	
	<u>TEST BLOCKS</u>			
	Carried Forward			R
	Section No. 2 Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
<u>Test blocks</u>			
6	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	Sets	15.0
<u>CONCRETE SUNDRIES</u>			
<u>Grooves, channels, mortices, sinkings, etc in concrete</u>			
7	45 x 12mm Half round grooves in top.	m	172
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough Formwork to sides</u>			
8	Edges, risers , ends and reveals not exceeding 200mm high or wide	m	168
<u>Permanent formwork to soffits</u>			
9	Soffits to slab	m2	126
<u>Rough formwork to form</u>			
10	250mm Diameter opening through 125mm slab	No	18
11	150mm Diameter opening through 125mm slab	No	18
<u>MOVEMENT JOINTS, ETC</u>			
<u>3 ply Malthoid in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>			
12	Not exceeding 300mm wide.	m	40
<u>REINFORCEMENT</u>			
<u>High tensile steel reinforcement to structural concrete work</u>			
13	16mm Diameter bars	t	1.35
14	12mm Diameter bars	t	2.20
Carried Forward			R
Section No. 2			
Bill No. 3			
CONCRETE, FORMWORK AND REINFORCEMENT			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BUILDING WORK</u></p> <p><u>PRECAST CONCRETE</u></p> <p><u>BILL NO 4</u></p> <p>For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"</p> <p style="text-align: center;">-----</p> <p><u>PRECAST CONCRETE SLABS</u></p> <p><u>Precast concrete left rough from the mould including bedding, jointing and pointing</u></p>			
1	1100x375x100mm Thick cover slab including bedding edges all round (reinforcement elsewhere)	No 10		
2	Single wash trough size 760mm x 370mm high	No 4		
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 4 PRECAST CONCRETE			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.5</u>			
	<u>MASONRY</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>BRICKWORK IN FOUNDATIONS</u>			
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar</u>			
1	Half brick walls	m2	69	
2	Half brick linings to concrete	m2	34	
3	One brick walls	m2	235	
4	One brick walls of two half brick skins with inner skin bagged and sealed	m2	154	
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
5	Half brick walls	m2	80	
6	One brick walls	m2	398	
7	Half brick wall in beam filling	m2	32	
	<u>BRICKWORK SUNDARIES</u>			
	<u>Turning pieces</u>			
8	115mm Wide turning piece to lintels, etc	m	36	
	Carried Forward			R
	Section No. 2 Bill No. 5 MASONRY			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
<u>Brickwork reinforcement</u>			
9	75mm Wide reinforcement built in horizontally	m	966
10	150mm Wide reinforcement built in horizontally.	m	1 320
<u>Prestressed fabricated lintels</u>			
11	110 x 75mm Lintels in lengths not exceeding 3m	m	50
<u>Galvanised hoop iron cramps, ties, etc</u>			
12	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	120
<u>Air bricks etc</u>			
13	229 x 152mm Clay vermin proof of air brick	No	24
<u>FACE BRICKWORK</u>			
<u>"Corobrik Firelight Satin" face bricks pointed with recessed horizontal and vertical joints</u>			
14	Extra over brickwork for face brickwork	m2	574
15	Extra over brickwork for face brickwork in beamfilling	m2	34
16	Fair raking cutting	m	30
17	Extra over brickwork for brick-on-edge header course coping	m	14
18	Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 115mm soffit	m	36
19	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	14
20	Fair cutting and fitting around pipe exceeding 200mm and not exceeding 300mm diameter	No	13
<u>FACE BRICKWORK COPINGS, SILLS, ETC</u>			
Carried Forward			R
Section No. 2 Bill No. 5 MASONRY			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.6</u>			
	<u>WATERPROOFING</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>WATERPROOFING</u>			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 250 micron Consol Plastics Gunplas Black waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Taps</u>			
1	Under surface beds	m2	186	
	<u>One layer 375 micron embossed polyethylene damp- proof course (SANS 952-1985 type B):</u>			
2	In walls	m2	42	
	<u>FLOOR AND WALLS SEALERS</u>			
3	Apply two coats Duraflex or equal waterproofing and one coat ABE cote SF356 on plastered walls	m2	482	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			R
	Bill No. 6			
	WATERPROOFING			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.7</u>			
	<u>ROOF COVERING</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>IBR 0.8mm thick Colomet finished galvanized metal corrugated profile roof sheeting and accessories with 'Chromadek' finish on one side and protective primer coating on reverse side fixed to steel purlins or rails at 1200mm centres:</u>			
1	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding m.	m2	210	
	<u>0.8mm thick 'Chromadek' flashings and accessories:</u>			
2	Eaves closer or narrow flute closer to suit profile.	m	66	
3	Hole for 150mm diameter pipe including flashing around.	No	10	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 7			
	ROOF COVERING			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.8</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>Trade Preambles:</u> For Trade Preambles refer to 'Specification of Materials and Methods' (PW371) for the full descriptions of material to be used and work to be done in this Bill			
	<u>SUPPLEMENTARY PREAMBLES</u> Proprietary items or materials: Proprietary items or materials where specified are to be of the brand specified -or other approved -by the Principal Agent. -----			
	<u>ROOFS</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3.9m not exceeding 6.6	m	81	
2	38 x 114mm Wall plates	m	26	
3	50 x 76mm Purlins in lengths exceeding 3.9m and not exceeding 6.6m	m	92	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
4	44mm Framed batten door 813 x 2032mm high braced and ledged timber meranti door (D3) the entire door to be sanded down and apply 1 coat pink wood primer and two full coats velvagro polyurethane velvet enamel fixed to 1100mm high long single action purpose cut timber meranti log/jamb	No	6	
	Carried Forward			R
	Section No. 2 Bill No. 8 CARPENTRY AND JOINERY			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward		R
<u>Solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame</u>		
5	40mm Door 813 x 1882mm high	No 7
<u>ROOF SUNDRIES</u>		
6	6mm Diameter galvanized wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No 24
7	Hurricane clips	No 34
8	Two coats creosote on sawn timbers	m2 125
<u>EAVES, VERGES, ETC.</u>		
<u>Medium density plain fibre-cement fascial and barge boards:</u>		
9	12 x 225mm Fascia and barge boards, including galvanised steel H-profile joiners, etc.	m 60
10	85 x 275mm Barge boards fixed to roof timbers including galvanised steel H-profile joiners, etc.	m 70
Carried Forward to Summary of Section No. 2		R
Section No. 2		
Bill No. 8		
CARPENTRY AND JOINERY		

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.9</u>			
	<u>IRONMONGERY</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>EN-SUITE LOCKS</u>			
	<u>En-suite locks</u>			
1	Pair of 'Union CZ692-24SC' or equal approved radius lever handles on back plate and one 'Union 2201 78PL' or equal approved three lever upright lock set, fixed to steel.	No	6	
2	Indicator lockset	No	7	
	<u>HINGES</u>			
3	1 Pair "Union" or similar approved butt hinges' with stainless steel finish	No	48	
	<u>Keys:</u>			
4	'Union' or equal approved master key.	No	6	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>Clear Perspex name plate size 150 x 150mm high with Arial font lettering 40mm high cut out blue vinyl backing, twice holed for and including fixing horizontally to timber door with two dome-headed stainless steel selftapping screws:</u>			
5	'BOYS' signplate. plugged	No	1	
6	'GIRLS' signplate, plugged.	No	1	
	Carried Forward			R
	Section No. 2 Bill No. 9 IRONMONGERY			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

	Brought Forward			R
7	'DISABLED' signplate, plugged.	No	1	
8	'GRADE R' signplate, plugged.	No	1	
9	'DISABLED' signplate, plugged.	No	1	
10	'MALE TEACHERS' signplate, plugged.	No	1	
11	'FEMALE' signplate, plugged.	No	1	
<u>BATHROOM FITTINGS</u>				
<u>Chairman industries or similar approved brushed stainless steel grab rails.</u>				
12	32mm Diameter code DL2 side grab rail, plugged.	No	1	
13	32mm Diameter code SR2 rear grab rail around cistern, plugged.	No	1	
<u>Toilet roll holder:</u>				
14	'Halcast steel"134-CP toilet roll holder with spring roller with chrome plated finish, plugged to wall.	No	10	
<u>SUNDRIES</u>				
<u>Sundries:</u>				
15	'Union' CZ8731SC or equal approved buffered door stop, plugged.	No	6	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 9				
IRONMONGERY				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.10</u>			
	<u>METALWORK</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>STEEL WINDOW, DOORS, ETC</u>			
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1.6mm Double rebated frames suitable for one brick walls with two 100mm galvanised loose pin hinges per door leaf</u>			
1	Frame for door 813 x 2032mm high	No	6	
	<u>1.6mm Double rebated frames suitable for half brick walls with two 100mm galvanised loose pin hinges per door leaf</u>			
2	Frame for door 813 x 2032mm high	No	7	
	<u>ALUMINIUM WINDOWS, DOORS, ETC</u>			
	<u>Doors, windows, etc to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive glazing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point.</u>			
	Carried Forward			R
	Section No. 2 Bill No. 10 METALWORK			

Brought Forward

R

Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to be submitted to the Architect for approval before the work is put in hand.

The frames generally are to be suitable for brickwork, blockwork or concrete reveals. They are to be fitted with fixing lugs of 2,8mm aluminium 13mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals, etc the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.

Immediately after the windows, doors, etc, have been delivered on to site, they are to be thoroughly overhauled, and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, blockwork, concrete, steel, etc, the framing is to be treated with bituminous paint in an approved manner. The windows, doors, etc, are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortion whilst the brickwork and lintels, are being built.

On completion of all other work the windows, doors, are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

General. All rates for doors, windows, shopfronts etc, should include for all glazing as specified.

Glazing beads: All door, etc to be fitted with glazing beads, unless otherwise described, mitred at angles and screwed on.

Glass and Glazing: All functional glass must be delivered to site cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

Note

Refer to attached window schedules for details of windows

Carried Forward

R

Section No. 2
Bill No. 10
METALWORK

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
<u>Powder Coated or similar approved aluminium windows, doors, etc including sub-frames, fixing, silicone sealant all round, ironmongery and glazed with 6mm clear laminated safety glass unless otherwise stated</u>			
3	Window size 600 x 600mm high, (W01)	No	20
4	Window size, 900 x 600 mm high with one opening and one fixed light.	No	8
<u>WELDED SCREENS, GATES, ETC</u>			
<u>Screens and gates</u>			
5	Galvanised single gate and frame 900 x 2100mm high comprising of 25 x 25 x 2mm hollow section frame and 25 x 25 x 2mm hollow section middle rail filled in with 12 x 12mm square section vertical rails at 75mm centres and fitted with a pair of suitable hinges welded to frame and with locking mechanism all in and including outer frame of 25 x 25 x 2mm hollow section welded frame bolted to brickwork	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 10			
METALWORK			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.11</u>			
	<u>PLASTERING</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
1	5mm Thick x 75mm High coved skirting to brickwork	m	128	
	<u>'Tal Screedmaster' or equal approved self levelling screeds on concrete floors applied as per manufacturers instructions</u>			
2	4mm Thick on floors and landings	m2	142	
	<u>EXPOXY</u>			
	<u>Scarify new power floated concrete surfaces as described, sweep clean and prime with epoxy primer, apply 'Flowcrete Flowfresh MF' or equal approved heavy duty chemical resistant antimicrobial treated polyurethane resin floor to a smooth matt colour Ochre finish and seal all in strict accordance with the manufacturers instructions. The work is to be executed by a specialist contractor approved by the manufacturer</u>			
3	4mm Thick on floors and landings	m2	142	
	<u>INTERNAL PLASTER</u>			
	<u>4:1 Cement plaster on brickwork</u>			
4	On walls	m2	698	
5	On narrow widths	m2	44	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 11			
	PLASTERING			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.12</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>RAINWATER DISPOSAL</u>			
	<u>0,6mm Seamless coated internally and externally with Colour Tech G4 or similar aluminium rainwater gutters, etc fixed strictly in accordance with manufacturer's instructions</u>			
1	100 x 150mm Eaves gutters in marble white on and including gutter brackets at 1m centres	m	49	
2	Extra over eaves gutter for angle	No	12	
3	Extra over eaves gutter for stopped end	No	12	
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	12	
5	125 x 75mm Rectangular fluted rainwater downpipes in marple white fixed into the wall with holder bats	m	30	
	<u>SANITARY FITTINGS</u>			
	<u>White glazed vitreous china with Cobra Watertech accessories</u>			
6	White vitreous china rounded lavatory basin with one taphole and complete with chromium plated star pattern basin set, anti-theft plug with spindle and chromium plated bottle trap	No	2	
	Carried Forward			R
	Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
7	"Atlas Plastics rotomoulded polythene" or similar approved VIP 200 pit pedestal-222 with seat and flap colour Granite (Code: 101235), overall size 387 x 518mm high with foot piece and VIP 200 inlet funnel (elsewhere specified) with removable plug.	No	7
8	"Atlas Plastics rotomoulded polyethylene Viking urinal-508AP colour Granite (Code:101243)" or similar approved with back inlet for concealed flush valve (elsewhere specified), overall size 363 x 320 x 553mm high plugged and screwed to wall with galvanised screws and brackets.	No	2
9	"Vaal Pearl Paraplegic Semi Close Couple Suite" product code: 73005C supplied with purpose made C.P side flush lever (right) and purpose made urea seat and cover plate	No	1
10	Atlas Plastics rotomoulded polyethylene Viking urinal-508AP colour Granite (Code:101243) or similar approved with back inlet for concealed flush valve (elsewhere specified), overall size 363 x 320 x 553mm high plugged and screwed to wall with galvanised screws and brackets.	m	3
<u>WASTE UNIONS ETC</u>			
<u>"Cobra Watertech"</u>			
11	15mm, 111CP "Star" pillartap	No	7
12	32mm "Cobra Ref. 301" slotted basin waste with plug, chain and stay	No	7
<u>TRAPS ETC</u>			
<u>Rubber traps, etc</u>			
13	32 x 40mm 'Flexitap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc	No	7
14	40 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc	No	10
Carried Forward			R
Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

		Brought Forward		R
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes and vent pipes</u>				
15	110mm Pipes	m	60	
16	50mm Pipes	m	60	
17	50mm Pipes laid in and including trenches not exceeding 1m deep	m	55	
18	150mm Black A/G pipes m 57	m	35	
<u>Extra over uPVC pipes for fittings</u>				
19	50mm Bend	No	12	
20	50mm Access bend	No	12	
21	50mm Vent valve	No	10	
<u>Ventilators</u>				
22	240mm Polycarbonate 'Turbo Ventura' ventilator with 150mm diameter throat fixed to top of 150mm vent pipe (vent pipe elsewhere measured)	No	10	
<u>TESTING</u>				
23	Testing drainage pipe system		Item	
<u>WATER SUPPLIES</u>				
<u>Class 0 copper pipes</u>				
24	15mm Pipes	m	40	
25	15mm Pipes chased into brick walls	m	35	
26	22mm Pipes	m	42	
		Carried Forward		R
Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORKS</u></p> <p><u>BILL NO.13</u></p> <p><u>GLAZING</u></p> <p>For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"</p> <p style="text-align: center;">-----</p> <p><u>MIRRORS, ETC</u></p> <p><u>"Roca Luna mirror (Code: 812117000)" or similar approved, fixed to wall with stainless steel screws into wall plugs, all in accordance with the manufacturer's recommendations</u></p>			
1	Mirror overall size 800mm wide x 900mm high x 28mm thick	No	6	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 13 GLAZING			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORKS</u>			
	<u>BILL NO.14</u>			
	<u>PAINTWORK</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>ON FLOATED PLASTER</u>			
	<u>PAINTWORK ETC TO NEW WORKS</u>			
	<u>Prepare surfaces and apply one coat Plaster Primer and two coats Enamel paint</u>			
1	On internal walls	m2	698	
	<u>ON METAL</u>			
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats golden brown enamel paint on steel</u>			
2	On door frames	m2	30	
3	On gates (Measured over the full flat area of both sides)	m2	42	
	<u>ON WOOD</u>			
	<u>One coat wood primer, one undercoat and two coats gloss enamel paint</u>			
4	On doors	m2	58	
	<u>Three coats clear varnish</u>			
5	On doors	m2	26	
	Carried Forward			R
	Section No. 2 Bill No. 14 PAINTWORK			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO.15</u>			
	<u>WALKWAYS</u>			
	<u>EXCAVATION, FILLING, ETC</u>			
	For preambles see "Construction works: Specifications: General Specification (PW 371-A) Edition 2.0"			

	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Open face excavation in earth over sloping site</u>			
1	Open face excavations	m3	445	
	<u>Extra over excavations other than in earth for excavation in</u>			
2	Soft rock	m3	200	
3	Hard rock	m3	250	
	<u>Earth filling supplied by the contractor in platforms</u>			
4	In platforms of G5 material in accordance with SABS 1200 DM compacted to 90% Mod AASHTO density	m3	250	
	<u>Prescribed density tests on filling</u>			
5	Natural California Bearing Ration "test"	No	15	
	Carried Forward			R
	Section No. 2 Bill No. 15 EXTERNAL WORKS			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
6	"Modified AASHTO Density" test	No	15
<u>Excavation in earth not exceeding 2m deep</u>			
7	Reduce levels under paved parking and walkways and stockpile	m3	17
<u>Extra over all excavations for carting away</u>			
8	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	18
<u>Keeping excavations free of water</u>			
9	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 98% Mod AASHTO density</u>			
10	Backfilling to platforms	m3	19
<u>Coarse river sand filling supplied by the contractor</u>			
11	Under floors etc	m3	22
<u>Compaction of surfaces</u>			
12	Compaction of ground surfaces under pavings 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	110
<u>Prescribed density tests on filling</u>			
13	"Modified AASHTO Density" test	No	10
<u>Weedkillers, insecticides, etc</u>			
14	Weedkiller and soil insecticide mixed in the proportion in strict accordance with the manufacturers instructions applied to earth surfaces under paving	m2	110
Carried Forward			R
Section No. 2			
Bill No. 15			
EXTERNAL WORKS			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

		Brought Forward		R
		<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
		<u>25MPa/19mm Concrete</u>		
15	Surface bed cast in panels and edge beams	m3	22	
		<u>CONCRETE SUNDRIES</u>		
		<u>Finishing top surfaces of concrete smooth with a wood float</u>		
16	Walkway to falls and currents	m2	110	
		<u>Smooth formwork to sides</u>		
17	Edges not exceeding 300mm high	m	50	
		<u>TEST BLOCKS</u>		
18	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5	
		<u>REINFORCEMENT (PROVISIONAL)</u>		
		<u>Fabric reinforcement</u>		
19	Ref 193 fabric reinforcement in concrete surface beds, etc	m2	110	
		<u>RAINWATER TANKS AND STANDS</u>		
		<u>Excavation in earth not exceeding 2m deep</u>		
20	Trenches	m3	15	
		<u>Extra over trench and hole excavations in earth for excavation in :</u>		
21	Soft rock	m3	33	
22	Hard rock	m3	55	
		Carried Forward		R
Section No. 2				
Bill No. 15				
EXTERNAL WORKS				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

		Brought Forward		R
		<u>Extra over all excavations for carting away:</u>		
23	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	14	
		<u>Risk of collapse of excavations:.</u>		
24	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	52	
		<u>Keeping excavations free of water:</u>		
25	Keeping excavations free of water.		Item	
		<u>Earth filling supplied by the contractor compacted to 95% Mod ASSHTO density</u>		
26	Backfilling to trenches, holes, etc.:	m3	8	
27	Under floors, steps, pavings, etc	m3	22	
		<u>Compaction of surfaces</u>		
28	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density.	m2	24	
		<u>25 MPa/20mm concrete:</u>		
29	Strip footings	m3	4	
30	Surface beds.	m3	4	
		Carried Forward		R
Section No. 2 Bill No. 15 EXTERNAL WORKS				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

		Brought Forward		R
<u>Sundries:</u>				
31	Extra for setting in position and casting holding down bolt into concrete base.	No	4	
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
32	Tank slabs, surface beds, etc	m2	24	
<u>Rough Formwork to slides:</u>				
33	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	40	
<u>Fabric reinforcement:</u>				
34	REF. 156 fabric reinforcement in concrete surface beds, slabs, etc.	m2	24	
<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar:</u>				
35	One brick walls.	m2	40	
<u>Brickwork reinforcement:</u>				
36	150mm Wide reinforcement built in horizontally	m	472	
<u>Galvanised hoop iron cramps, ties, etc.:</u>				
37	30 x 1,6mm Tie secured around tank and 4 times built into concrete (Total for one tank = 12 meters).	No	16	
		Carried Forward		R
Section No. 2 Bill No. 15 EXTERNAL WORKS				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

		Brought Forward			R
	<u>"Dorma" or similar approved</u>				
43	50mm Brass padlock with 28mm Stainless Steel shackle	No	4		
	<u>MISCELLANEOUS.</u>				
	<u>Supply and fit complete to manufacturer's standards the following to downpipes and tanks to prevent blocking and intrusion of mosquitoes and pests to tanks.</u>				
44	Leaf eater rain heads	No	4		
45	Screen filter	No	4		
46	First flush diverters	No	4		
	<u>APRONS</u>				
	<u>Compaction of surfaces</u>				
47	Compaction of ground surface under ramps, 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		
	<u>Prescribed density tests on filling</u>				
48	"Modified AASHTO Density" test	No	5		
	<u>15MPa/19mm unreinforced concrete</u>				
49	Aprons laid in panels	m3	7		
		Carried Forward			R
	Section No. 2				
	Bill No. 15				
	EXTERNAL WORKS				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward							
							R
		<u>Mass concrete with a coarse aggregate of 9mm and a minimum compressive strength of 15MPa at 28 days</u>					
68	V- shaped channel 900mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar laid to falls in panels not exceeding 1,8m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	130				
69	Extra for fair open end	No	5				
70	Extra for fair stopped end	No	2				
71	Extra for angle intersection	No	2				
		<u>Movement joints</u>					
72	Movement joint not exceeding 300mm high formed of 12mm bitumen impregnated softboard placed vertical in position between concrete stormwater channel and brick walls or concrete aprons, etc including raking out top section 10mm deep and filling with bituminous compound	m	104				
Carried Forward to Summary of Section No. 2							R
Section No. 2							
Bill No. 15							
EXTERNAL WORKS							

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Bill No	<u>SECTION SUMMARY - BUILDING WORKS</u>	Page No	Amount
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4	PRECAST CONCRETE	35	
5	MASONRY	38	
6	WATERPROOFING	39	
7	ROOF COVERING	40	
8	CARPENTRY AND JOINERY	42	
9	IRONMONGERY	44	
10	METALWORK	47	
11	PLASTERING	48	
12	PLUMBING AND DRAINAGE	52	
13	GLAZING	53	
14	PAINTWORK	55	
15	EXTERNAL WORKS	66	
	Carried to Final Summary		R
	Section No. 2		

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
	<u>BILL NO.1</u>			
	<u>COVID-19 SPECIFICATION</u>			
	<u>General</u>			
1	Review of OHS Plan for each assignment. Rate to include for risk assessment specific to COVID-19 pandemic and other adjustments to ensure compliance for the assignment (Once off for the duration of contract)	Item		
2	Principal Contractor's Fixed Cost obligation in respect of the OHS Act and Construction Regulations signage - COVID-19 related (once off for the duration of contract)	Item		
3	Non-contact thermal scanner	No	2	
4	Kimberly Clark Metal Blue Free Standing, Portable Paper Towel Dispenser, 570mm x 790mm x 160mm	No	2	
5	Additional 240 litre wheeled bins 725mm(L) x 58mm(W) x 1,075mm(H)	No	5	
6	Provision for isolation area (screened and ventilated with appropriate signage)			SUM
7	Disinfection of isolation area			SUM
8	Biohazard waste box set - 30 litre (5kg)	No	1	
9	Removal of biohazard waste to nearest clinic			SUM
	Carried Forward			R
	Section No. 3 Bill No. 1 COVID-19 SPECIFICATION			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

		Brought Forward		R
10	Transport to nearest clinic			SUM
11	Disinfection of transport	No	1	
<u>DISINFECTION OF AMENITIES</u>				
12	Surface cleaner (5 litre containers)	No	20	
13	Spray bottles (500 ml) with label sticker	No	32	
14	Essential Wiper Roll - 1 Ply - White - 205mm x 1,500m	No	10	
15	30 micron disposable garbage bags (200 bags / pack)	No	10	
<u>DISINFECTION OF TOOLS & EQUIPMENT</u>				
16	Surface cleaner (5 litre containers)		Item	
17	30 micron disposable garbage bags (200 bags / pack)		Item	
<u>PPE</u>				
18	"Suitable re-usable cloth facemask (3 per person per month) (Visitors to supply own masks)"		Item	
19	0.4mm PET curved visor adjustable 2-piece face shield (10% of labour force allowance)		Item	
20	Face shield and surgical masks (N95, FFP2) for first aider, appointed C-19 Control Officer, screening person, cleaner		Item	
		Carried Forward		R
Section No. 3 Bill No. 1 COVID-19 SPECIFICATION				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward		R
21	Latex re-usable cleaner gloves (4 pairs / user/ month) - 10 person allowance	Item
22	Disposable aprons (100 aprons / pack) - 1 pack allowance / month	Item
23	Non-contact thermal scanner (breakage allowance)	Item
24	Hand sanitiser 70% alcohol-based (5l containers)	Item
25	Spray bottles (500 ml) with label sticker	Item
26	Essential Wiper Roll - 1 Ply - White - 205mm x 1,500m (for personnel use)	Item
27	Monthly lump sum allowance for additional remuneration for COVID-19 compliance officer and/or assistant	Item
28	Lump sum per month for administration & training costs and stationery expenses	Item
Carried Forward to Summary of Section No. 3		R
Section No. 3		
Bill No. 1		
COVID-19 SPECIFICATION		

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
	<u>BILL NO.2</u>			
	<u>OHS</u>			
1	Preparation of the Contractors site specific Health and Safety Plan (Refer to Item 1.3 of H & S Specification).	Item		
	<u>Provision of Personal Protective Equipment (PPE) (Refer to item 2.3.20 of H & S Specification):</u>			
2	(a) Reflective vests	No	20	
3	(b) Hard hat	No	20	
4	(c) Protective foot wear	No	20	
5	(d) Earplugs	No	100	
6	(e) Dust masks	No	100	
7	(f) Gloves	No	20	
8	Provision of a part time Construction Health and Safety Officer (Refer to item 2.3.8 of H & S Specification).	No	4	
	Carried Forward			R
	Section No. 3 Bill No. 2 OHS			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Brought Forward			R
<u>Cost of medical certificates and medical surveillance (Refer to Item 2.6.1 of H & S Specification):</u>			
9	(a) Initial (baseline) medical examinations	Item	
10	(b) Exit examinations	Item	
11	(c) Contractors charge to allow for handling costs and profit in respect of items 9 and 10	Item	
12	Provision of First Aid Boxes to GSR requirements (Refer to Item 2.3.17 of H&S Specification).	No	1
<u>General items</u>			
13	Provision for Signage (Refer to Item 2.3.21 of H& S Specification)	Item	
14	OHS Relevant Training (hiv/aids, SHE Rep, Scaffold erector & inspector, First Aider etc.) Refer to Item 2.3.10 H&S Specification	Item	
15	Submission of a Health and Safety File (Refer to Item 2.7 of H&S Specification).	Item	
16	Access Scaffolding (Kwikstage) (Refer to Item 2.4.1) of H&S Specification)	Item	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 2			
OHS			

SECTION SUMMARY - OCCUPATIONAL HEALTH AND SAFETY

Bill No		Page No		Amount
1	COVID-19 SPECIFICATION	70		
2	OHS	72		
Carried to Final Summary				R
Section No. 3				

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>PROVISIONAL SUMS AND BUDGETARY ALLOWANCE</u>			
	<u>BILL NO.1</u>			
	<u>CLIENT LIAISON OFFICER</u>			
1	Provide an amount R 30 000.00 (Thirty Thousand Rand) for the provision of the CLO for 5 Months	Item		
2	Attendance of 7.5%	Item		
3	Handling Fee of 2.5%	Item		
	Carried to Final Summary			R
	Section No. 4			
	Bill No. 1			
	PROVISIONAL SUMS			

**MGUDU SENIOR PRIMARY SCHOOL
CONSTRUCTION OF NEW ABLUTION BLOCKS**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	26	
2	BUILDING WORKS	67	
3	OCCUPATIONAL HEALTH AND SAFETY	73	
4	PROVISIONAL SUMS	74	
	Sub Total A		R
	Provide 5% (FIVE PERCENT) for Contingency to be used as directed by the Architect/ Client and deducted in whole or part if not required	Item	
	Sub Total B		R
	Add ValueAdded Tax @15%		R
	Carried to Form of Tender		R