

Item No	Description	Quantity	Amount
	<b><u>SECTION NO. 1</u></b>		
	<b><u>BILL NO. 1</u></b>		
	<b><u>PRELIMINARIES</u></b>		
	<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>		
	<b><u>NOTES TO PRELIMINARY AND GENERAL</u></b>		
	<p><b><u>NOTE : TENDERERS ARE TO PRICE PRELIMINARIES BASED ON THE TERMS, INSTRUCTIONS AND CONDITIONS OF THE CONTRACT AND BILLS OF QUANTITIES INCLUDED HEREIN</u></b></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 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>		
	<b>Carried forward</b>	R	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>		

**Brought forward**

**R**

**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)**

1.1.1 Definitions and interpretation (clause 1)

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

Item

**Objective and Preparation (A2 to A14)**

1.1.2 Offer and acceptance (clause 2)

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

Item

1.1.3 Documents (clause 3)

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

Item

1.1.4 Design responsibility (clause 4)

**Carried forward**

**R**

**PRELIMINARY AND GENERAL  
PRELIMINARY AND GENERAL  
SIST CONSORTIUM**

		<b>Brought forward</b>	<b>R</b>	
	F:..... V:..... T:.....		Item	
1.1.5	Employer's agents (clause 5)			
	F:..... V:..... T:.....		Item	
1.1.6	<p>The principal agent shall:</p> <ul style="list-style-type: none"> <li>- monitor and control progress and scheduling</li> <li>- monitor all contract conditions, and</li> <li>- coordinate the efforts of the employer's agents, the contractor and subcontractors</li> </ul> <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> <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>		Item	
1.1.7	Site representative (clause 6)			
	F:..... V:..... T:.....		Item	
1.1.8	Compliance with regulations (clause 7)			
	F:..... V:..... T:.....		Item	
1.1.9	Works risk (clause 8)			
	F:..... V:..... T:.....		Item	
1.1.10	Indemnities (clause 9)			
	F:..... V:..... T:.....		Item	
	Works insurances (clause 10)			
	F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

		<b>Brought forward</b>	<b>R</b>	
	Liability insurances (clause 11)			
	F:..... V:..... T:.....		Item	
	Effecting insurance (clause 12)			
	F:..... V:..... T:.....		Item	
	NO CLAUSE		Item	
	Security (clause 14)			
	F:..... V:..... T:.....		Item	
	<b><u>Execution (A15-A23)</u></b>			
1.1.11	Preparation for and execution of the works (clause 15)			
	F:..... V:..... T:.....			
	Access to the works (clause 16)			
	F:..... V:..... T:.....		Item	
1.1.12	Contract instructions (clause 17)			
	F:..... V:..... T:.....		Item	
1.1.13	Setting out of the works (clause 18)			
	F:..... V:..... T:.....			
1.1.14	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	
	Assignment (clause 19)			
	F:..... V:..... T:.....		Item	
1.1.15	The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

		<b>Brought forward</b>	<b>R</b>	
	Nominated subcontractors (clause 20)			
	F:..... V:..... T:.....		Item	
	Selected subcontractors (clause 21)			
	F:..... V:..... T:.....		Item	
1.1.16	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	
1.1.17	Employer's Direct Contractors (clause 22)			
	F:..... V:..... T:.....			
	Contractor's Domestic Sub-Contractors (Clause 23)			
	F:..... V:..... T:.....		Item	
	<b><u>Completion (A24-A30)</u></b>			
1.1.18	Practical completion (clause 24)			
	F:..... V:..... T:.....		Item	
1.1.19	Works completion (clause 25)			
	F:..... V:..... T:.....		Item	
	Final completion (clause 26)			
	F:..... V:..... T:.....		Item	
	Latent defects liability period (clause 27)			
	F:..... V:..... T:.....		Item	
1.1.20	Sectional completion (clause 28)			
	F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

[illegible]

		<b>Brought forward</b>	<b>R</b>	
1.1.25	<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> <p>Payment to other parties (clause 35)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Cancellation (A36-A39)</u></b></p>			
				Item
				Item
1.1.26	<p>Cancellation by employer - contractor's default (clause 36)</p> <p>F:..... V:..... T:.....</p>			Item
1.1.27	<p>Cancellation by employer - loss and damage (clause 37)</p> <p>F:..... V:..... T:.....</p>			Item
1.1.28	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>F:..... V:..... T:.....</p>			Item
1.1.29	<p>Cancellation - cessation of the works (clause 39)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Dispute (A40)</u></b></p>			Item
1.1.30	<p>Dispute Settlement (clause 40)</p> <p>F:..... V:..... T:.....</p>			Item
		<b>Carried forward</b>	<b>R</b>	
	<p><b>PRELIMINARY AND GENERAL</b> <b>PRELIMINARY AND GENERAL</b> <b>SIST CONSORTIUM</b></p>			

	<b>Brought forward</b>	<b>R</b>	
	<b><u>Substitute Provisions (A41)</u></b>		
1.1.31	State clauses (Clause 41)  F:..... V:..... T:.....	Item	
1.1.32	Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item	
	<b><u>THE SCHEDULE</u></b>		
1.1.33	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item	
1.1.34	Pre-tender information (clause 42)  F:..... V:..... T:.....	Item	
	<b><u>42.1 CONTRACTING AND OTHER PARTIES</u></b>		
	42.1.1 Employer: THE MVULA TRUST		
	42.1.2 Principal Agent: SIST CONSORTIUM		
	<b><u>42.2 CONTRACT DETAILS</u></b>		
	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 <b>State</b> organ only <b>Yes</b>		
	42.2.5 Date on which possession of the site is intended to be given:  As per the information provided in the Tender Data		
	42.2.6 Period for the commencement of the works after the contractor takes possession of site:  7 DAYS		
	<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>		



	<b>Brought forward</b>	<b>R</b>	
	<p>42.2.7 For the works <b>as a whole</b>. Intended date of practical completion and the penalty per calendar day</p> <p>Intended Date of Practical Completion: <i>As per the information provided in the Tender Data</i></p> <p>Penalty Amount: <i>The penalty per <b>calender</b> day shall be 7.5 cents per R100 of the Tendered Amount (inclusive of value added tax)</i></p> <p>42.2.8 For the works in <b>sections</b> : Intended date of practical completion and the penalty per calendar day</p> <p><b><u>42.3 INSURANCES</u></b></p>		
1.1.35	<p>42.3.1 Contract works insurance to be effected by: <i>Contractor:</i></p> <p><i>For the Sum of R Contract Amount + 10.00 %</i> <i>With a deductible of - to be determined by the contractor</i></p> <p>42.3.2 Supplementary insurance is required: <i>No</i></p> <p>42.3.3 Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R 5 000 000-00</i> <i>With a deductible of - to be determined by the contractor</i></p>	Item	
	<b>Carried forward</b>	<b>R</b>	
	<p><b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b></p>		

	<b>Brought forward</b>	<b>R</b>	
	<b><u>42.4 DOCUMENTS</u></b>		
	42.4.1 Waivers of <b>contractors lien</b> or right of continuing possession is required Yes		
	42.4.2 Number of construction document copies to be supplied to the <b>contractor</b> free of charge:		
	3 Number of		
	42.4.3 <b>Bills of Quantities/Lump sum document</b> 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		
	<b>5 working days</b>		
	<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 <b>contract documents</b> :		
	<i>No</i>		
	42.4.6 The contract value is to be adjusted using escalation adjustment indices		
	<i>No</i>		
	Where <b>JBCC CPAP</b> is to be used		
	<i>Base Month N/A</i>		
	42.4.7 Details of changes made to the provision of JBCC standard documentation:		
	Part 1 - Contract Data completed by Employer		
	<b><u>SECTION B: PRELIMINARIES</u></b>		
	<b><u>Definitions and interpretation (B1)</u></b>		
1.1.36	Definition and interpretation (B1.1 - B1.4.6)  F:..... V:..... T:.....	Item	
	<b><u>Documents (B2)</u></b>		
1.1.37	Checking of documents (B2.1)  F:..... V:..... T:.....	Item	
1.1.38	Provisional bills of quantities (B2.2)  F:..... V:..... T:.....	Item	
	<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>		

		<b>Brought forward</b>	<b>R</b>	
1.1.39	Availability of construction documentation (B2.3) F:..... V:..... T:.....		Item	
1.1.40	Interests of agents (B2.4) F:..... V:..... T:.....		Item	
1.1.41	Priced documents (B2.5) F:..... V:..... T:.....		Item	
1.1.42	Tender submission (B2.6) F:..... V:..... T:.....		Item	
1.1.43	Defined works area (B3.1) F:..... V:..... T:.....		Item	
	<b><u>The site (B3)</u></b>			
1.1.44	Geotechnical investigation (B3.2) F:..... V:..... T:.....		Item	
1.1.45	Inspection of the site (B3.3) F:..... V:..... T:.....		Item	
1.1.46	Existing premises occupied (B3.4) F:..... V:..... T:.....		Item	
	Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.			
1.1.47	Previous work - dimensional accuracy (B3.5) F:..... V:..... T:.....		Item	
1.1.48	Previous work - defects (B3.6) F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

[illegible]

		<b>Brought forward</b>	<b>R</b>	
	<b><u>Samples, shop drawings and manufacturer's instructions (B5)</u></b>			
1.1.59	Samples of materials (B5.1)			
	F:..... V:..... T:.....		Item	
1.1.60	Workmanship samples (B5.2)			
	F:..... V:..... T:.....		Item	
1.1.61	Shop drawings (B5.3)			
	F:..... V:..... T:.....		Item	
1.1.62	Compliance with Manufacturer's Instructions (B5.4)			
	F:..... V:..... T:.....		Item	
	<b><u>Temporary works and plant (B6)</u></b>			
1.1.63	Deposits and fees (B6.1)			
	F:..... V:..... T:.....		Item	
1.1.64	Enclosure of the works (B6.2)			
	F:..... V:..... T:.....		Item	
1.1.65	Advertising (B6.3)			
	F:..... V:..... T:.....		Item	
1.1.66	Plant, equipment, sheds and offices (B6.4)			
	F:..... V:..... T:.....		Item	
1.1.67	Main notice board (B6.5)			
	F:..... V:..... T:.....		Item	
1.1.68	Subcontractors' notice board (B6.6)			
	F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

		<b>Brought forward</b>	<b>R</b>	
	<b><u>Temporary services (B7)</u></b>			
1.1.69	Location (B7.1)			
	F:..... V:..... T:.....		Item	
1.1.70	Water (B7.2)	.. Option [A] shall apply		
	F:..... V:..... T:.....		Item	
1.1.71	Electricity (B7.3)	.. Option [A] shall apply		
	F:..... V:..... T:.....		Item	
1.1.72	Telecommunication facilities (B7.4)			
	F:..... V:..... T:.....		Item	
1.1.73	Ablution facilities (B7.5)	..... Option [A] shall apply		
	F:..... V:..... T:.....		Item	
	<b><u>Prime cost amounts (B8)</u></b>			
1.1.74	Responsibility for prime cost amounts (B8.1)			
	F:..... V:..... T:.....		Item	
	<b><u>Attendance on N/S Subcontractors (B9)</u></b>			
1.1.75	General attendance (B9.1)			
	F:..... V:..... T:.....			
1.1.76	Special attendance (B9.2)			
	F:..... V:..... T:.....			
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

		<b>Brought forward</b>	<b>R</b>	
1.1.77	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....			
	<b><u>Financial aspects (B10)</u></b>			
1.1.78	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....		Item	
1.1.79	Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:.....			
1.1.80	Adjustment of preliminaries (B10.3) Option [B] shall apply F:..... V:..... T:.....		Item	
1.1.81	Payment certificate cash flow (B10.4) F:..... V:..... T:.....		Item	
	<b><u>General (B11)</u></b>			
1.1.82	Protection of works (B11.1) F:..... V:..... T:.....		Item	
1.1.83	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....		Item	
1.1.84	Security of the Works (B11.3) F:..... V:..... T:.....		Item	
1.1.85	Notice before covering work (B11.4) F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

		Brought forward	R
1.1.86	Disturbance (B11.5) F:..... V:..... T:.....		Item
	Environmental Disturbance (B11.6) F:..... V:..... T:.....		Item
1.1.87	Works cleaning and clearing (B11.7) F:..... V:..... T:.....		Item
1.1.88	Vermin (B11.8) F:..... V:..... T:.....		Item
1.1.89	Overhand work (B11.9) F:..... V:..... T:.....		Item
1.1.90	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....		Item
1.1.91	As built information (B11.11) F:..... V:..... T:.....		Item
1.1.92	Tenant Installations (B11.12) F:..... V:..... T:.....		Item
	<b><u>Schedule of variables (B12)</u></b>		
1.1.93	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	
		Carried forward	R
<b>PRELIMINARY AND GENERAL</b> <b>PRELIMINARY AND GENERAL</b> <b>SIST CONSORTIUM</b>			



	<b>Brought forward</b>	<b>R</b>	
12.1.3 Interest of agents (B2.4)			
12.1.4 Defined works area (B3.1)			
12.1.5 Geotechnical investigation (B3.2)	N/A		
12.1.6 Existing premises occupied (B3.4)			
12.1.7 Previous work - dimensional accuracy (B3.4)			
12.1.8 Previous work - defects (B3.5)			
12.1.9 Services - known (B3.7)			
12.1.10 Protection of trees (B3.9) All trees should be protected and only on instruction of the Principal Agent may any trees be removed			
12.1.11 Inspection of adjoining properties (B3.11)			
12.1.13 Offices (B6.4.3) Specific requirements: The contractor shall provide, maintain and remove, on completion of the works, an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.			
12.1.14 Main notice board (B6.5)			
12.1.15 Subcontractors notice board (B6.6) A notice board is required	Yes		
12.1.16 Water (B7.2) Alternative Selected: A			
12.1.17 Electricity (B7.3) Alternative selected: A			
12.1.18 Telecommunications (B7.4)			
	<b>Carried forward</b>	<b>R</b>	
<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

<b>Brought forward</b>		<b>R</b>
12.1.19 Ablution facilities (B7.5) Alternative selected: A		
12.1.20 Protection of existing/sectionally occupied works (B11.2)		
12.1.21 Special attendance (B9.2) Subcontractor (1) details:	N/A	
12.1.22 Protection of the works (B11.1)	N/A	
12.1.23 Disturbance (B11.5)	N/A	
12.1.24 Environmental Disturbance (B11.6)	N/A	
<b><u>Post tender information (B12.2)</u></b>		
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	
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>		
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		
<b><u>Site instructions</u></b>		
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
<b>Carried forward</b>		<b>R</b>
<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>		

		<b>Brought forward</b>	<b>R</b>	
1.1.94	Black economic empowerment and training F:..... V:..... T:.....		Item	
1.1.95	Proprietary branded products F:..... V:..... T:.....		Item	
	<b><u>Testing of flat roof waterproofing for watertightness</u></b>			
1.1.96	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:.....		Item	
1.1.97	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 Contract instructions F:..... V:..... T:.....		Item	
1.1.98	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 <b>principal agent</b> , flooded with water and kept "ponded" for at least forty (40) 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:.....		Item	
1.1.99	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 Labour record F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			

		<b>Brought forward</b>	<b>R</b>	
1.1.100	<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> <p>Plant record</p> <p>F:..... V:..... T:.....</p>			Item
1.1.101	<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> <p>Guarantees</p> <p>F:..... V:..... T:.....</p>			Item
1.1.102	<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> <p>Overtime</p> <p>F:..... V:..... T:.....</p>			Item
1.1.103	<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> <p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p>			Item
		<b>Carried forward</b>	<b>R</b>	
	<p><b>PRELIMINARY AND GENERAL</b> <b>PRELIMINARY AND GENERAL</b> <b>SIST CONSORTIUM</b></p>			

	<b>Brought forward</b>	<b>R</b>	
1.1.104	<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> <p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>		
		Item	
1.1.105	<p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non- compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained.</p> <p>The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained.</p>		
		Item	
	<b>Carried forward</b>	<b>R</b>	
	<p><b>PRELIMINARY AND GENERAL</b>  <b>PRELIMINARY AND GENERAL</b>  <b>SIST CONSORTIUM</b></p>		

	<b>Brought forward</b>	<b>R</b>	
1.1.106	<p>In the In the event of any occurrence which is likely to give rise to a claim under the insurances arranged by the employer, the contractor / subcontractor shall :-</p> <p>i) In addition to any statutory requirement or other requirements contained in the agreement, immediately notify the employer's insurance brokers by telephone or telefax, giving the circumstances, nature and an estimate of the loss or damage or liability;</p> <p>ii) Complete a claims advice form per Annexure "L", in conjunction with both the principal agent and the employer and return it to the insurance brokers without delay;</p> <p>iii) Assist as required, in negotiations of the settlement of claims with the insurers through the employer's insurance brokers.</p> <p>The employer shall have the right to make all and any enquiry on the site or elsewhere as to the cause and results of any such occurrence and the contractor shall give the employer and his insurers full facilities for carrying out such enquiries.</p>		
1.1.107	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item	
1.1.108	<p>Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines</p> <p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item	
1.1.109	<p>Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc</p> <p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item	
1.1.110	<p>Provision of reflective vests</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried forward</b>	<b>R</b>	
	<p><b>PRELIMINARY AND GENERAL</b>  <b>PRELIMINARY AND GENERAL</b>  <b>SIST CONSORTIUM</b></p>		

**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

	Brought forward	R
1.1.111	Provision of hard hats Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
1.1.112	Provision of protective footwear Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
1.1.113	Provision of earplugs Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
1.1.114	Provision of dust masks Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
1.1.115	Provision of gloves Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
1.1.116	Provision of high visibility overalls to SARTSM Chapter 13 Level 3 Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
1.1.117	Provision of SANS approved ear defenders Provision of personal protective equipment (PPE)  F:..... V:..... T:.....	Item
	<b>Carried forward</b>	<b>R</b>
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>	

		<b>Brought forward</b>	<b>R</b>	
1.1.118	Provision of face masks (Covid -19)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
1.1.119	Provision of face shields (Covid -19)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
1.1.120	Provision of gloves (Covid -19)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
1.1.121	Provision of hand sanitiser (min 70% alchohol), foot press stands and paper towels (Covid -19)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
1.1.122	Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
1.1.123	Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
1.1.124	Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)			
	Provision of personal protective equipment (PPE)			
	F:..... V:..... T:.....		Item	
		<b>Carried forward</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>			



**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

		<b>Brought forward</b>	<b>R</b>
1.1.125	Provision of signage, including Covid -19 related signage  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
1.1.126	Provision of full time construction health and safety officer (SACPCMP Registered)  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
1.1.127	Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
1.1.128	Medical screenings, examinations, etc in terms of Covid- 19 regulations  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
1.1.129	Induction training, including Covid-19 training  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
1.1.130	Provision of first aid boxes to GSR requirements  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
1.1.131	Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc  Provision of personal protective equipment (PPE)  F:..... V:..... T:.....		Item
		<b>Carried forward</b>	<b>R</b>
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>		

	<b>Brought forward</b>	<b>R</b>	
1.1.132	Submission of health and safety file  HIV/AIDS Awareness  F:..... V:..... T:.....	Item	
1.1.133	It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.  The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.	Item	
1.1.134	<b><u>SUMMARY OF CATEGORIES</u></b>  Category : Fixed R.....  Category : Value R.....  Category : Time R.....	Item	
	<b>Carried to Final Summary</b>	<b>R</b>	
	<b>PRELIMINARY AND GENERAL PRELIMINARY AND GENERAL SIST CONSORTIUM</b>		

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>ALTERATIONS AND DEMOLITIONS</u></b>			
	NOTE: For the purposes of tendering, only the total quantity shall be used in calculating the amount for inclusion in the tender at the tendered rate. The quantities in the description column immediately below the item represent the quantities per section for information and administration only as follows:			
	A - BLOCK A - GRD4+2UR			
	C - BLOCK C - MD2+2UR			
	D - BLOCK B - SM2+2UR+SFD4			
	E - EXTERNAL WORKS			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>DEMOLITIONS ETC</u></b>			
2.1.1	Demolish existing single storey building (Block A) with pitched roof 2700m x 2633m on plan and 2.5m high at eaves comprising of concrete surface bed, block external and internal walls, asbestos roof covering on wooden purlins including breaking up and removing foundations ,including deslugging, backfilling and cart away unnecessary material on completion and levelling site	No	1	
	Carried forward		R	
	<b>ALTERATIONS ALTERATIONS SIST CONSORTIUM</b>			

	<b>Brought forward</b>			R	
2.1.2	Demolish existing single storey building (Block D & E) with pitched roof 2217mm x 2163mm on plan and 2.5m high at eaves comprising of concrete surface bed, block external and internal walls, asbestos roof covering on wooden purlins including breaking up and removing foundations ,including deslugging, backfilling and cart away unnecessary material on completion and levelling site	No	2		
2.1.3	Demolish existing elevated tank brick stand size 2407mm x 2280mm, complete. including backfilling and cart away unnecessary material on completion and levelling site	No	1		
	<b><u>Taking out and removing, grubbing up roots and filling in holes</u></b>				
2.1.4	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		
	<b><u>REMOVAL OF EXISTING WORK</u></b>				
	<b><u>Taking out/off and removing sundry metalwork</u></b>				
2.1.5	Removal of existing perimeter fence, complete.	m	721		
	<b><u>TEMPORARY ABLUTIONS</u></b>				
	<b><i>Note: Failure to complete new toilet blocks within stipulated duration of the contract due to contractor's default, additional months will be paid by the contractor.</i></b>				
2.1.6	Temporary chemical toilets (6No) for a period of original construction (site handover date to original practical completion date) up to approved extension of time including all servicing necessary as per standards. All servicing of the temporary chemical toilets on late completion of the works by Contractor till actual practical completion date, all costs will be on the Contractor's Account	Mnths	4		
	<b>Carried to Final Summary</b>			R	
	<b>ALTERATIONS ALTERATIONS SIST CONSORTIUM</b>				

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>EARTHWORKS</u></b>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>SITE CLEARANCE, ETC</u></b>				
	<b><u>Site clearance</u></b>				
3.1.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	104		
3.1.2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	104		
	<b><u>EXCAVATION OTHER THAN BULK</u></b>				
	<b><u>Excavate in earth not exceeding 2m deep</u></b>				
3.1.3	To reduce levels under floors	m3	30		
	<b><u>Excavation in earth not exceeding 2m deep</u></b>				
3.1.4	Trenches	m3	38		
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
3.1.5	Soft rock	m3	4		
3.1.6	Hard rock	m3	9		
	<b>Carried forward</b>				R
	<b>BLOCK A - GRD4+2UR EARTHWORKS SIST CONSORTIUM</b>				

<b>Brought forward</b>				<b>R</b>
<b><u>WORKING SPACE</u></b>				
<b><u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u></b>				
3.1.7	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	m2	133	
<b><u>Extra over back excavation in earth for working space for excavation in soft rock</u></b>				
3.1.8	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	3	
<b><u>Extra over back excavation in earth for working space for excavation in hard rock</u></b>				
3.1.9	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	26	
<b><u>CARTING AWAY</u></b>				
<b><u>Extra over all excavations for carting away</u></b>				
3.1.10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.( No allowance made for increase in bulk, to be factored in rate)	m3	22	
<b><u>RISK OF COLLAPSE</u></b>				
<b><u>Risk of collapse of excavations</u></b>				
3.1.11	Sides of trench and hole excavations not exceeding 1,5m deep	m2	128	
3.1.12	Sides of trench and hole excavations exceeding 1,5m deep	m2	5	
<b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>				
<b><u>Keeping excavations free of water</u></b>				
3.1.13	Keeping excavations free of all water other than subterranean water		Item	
<b>Carried forward</b>				<b>R</b>
<b>BLOCK A - GRD4+2UR EARTHWORKS SIST CONSORTIUM</b>				

<b>Brought forward</b>				R	
<b><u>FILLING, ETC:</u></b>					
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u></b>					
3.1.14	Backfilling to trenches, holes, etc	m3	17		
<b><u>Layerworks</u></b>					
3.1.15	Imported G5 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density	m3	10		
3.1.16	G2 Layer	m3	10		
<b><u>COMPACTION</u></b>					
<b><u>Compaction of surfaces</u></b>					
3.1.17	Trim, level off and 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	67		
<b><u>TESTS</u></b>					
<b><u>Prescribed density tests on filling</u></b>					
3.1.18	"Modified AASHTO Density" test on request by the engineer	No	4		
3.1.19	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	4		
<b><u>SOIL POISONING</u></b>					
<b>Carried forward</b>				R	
<b>BLOCK A - GRD4+2UR EARTHWORKS SIST CONSORTIUM</b>					

**Brought forward**

**R**

**Approved brand of anti-termite soil poison applied  
by a Registered Pest control company and  
guaranteed against termite infestation for ten years.  
Soil Insecticide in accordance with SANS 5859**

3.1.20	Poisoning of ground surfaces under floors against termites as described including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described	m2	67
3.1.21	To bottoms and sides of trenches etc	m2	174

**Carried Forward to Sectional Summary:**

**R**

**BLOCK A - GRD4+2UR  
EARTHWORKS  
SIST CONSORTIUM**



Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 2</u></b>				
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
3.2.1	Surface blinding under footings and bases	m3	2		
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
3.2.2	Strip Footings	m3	12		
3.2.3	Bases	m3	0.3		
3.2.4	Surface beds	m3	10		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Test Blocks</u></b>				
3.2.5	Making and testing 150 x 150 x 150mm concrete strength test cube	No	11		
	<b><u>Finishing top surfaces of concrete smooth with a wood float finish</u></b>				
3.2.6	Surface beds, slabs, etc	m2	67		
	<b>Carried forward</b>				
	<b>BLOCK A - GRD4+2UR CONCRETE, FORMWORK AND REINFORCEMENT SIST CONSORTIUM</b>				<b>R</b>

	<b>Brought forward</b>			<b>R</b>	
	<b><u>FORMWORK</u></b>				
	<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>				
	<b><u>Rough formwork to sides</u></b>				
3.2.7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30		
	<b><u>Rough formwork to sides</u></b>				
3.2.8	Strip footings not exceeding 300mm high or wide	m	114		
	<b><u>MOVEMENT JOINTS</u></b>				
	<b><u>Expansion joints with polyethylene joint former "Jointex" between vertical concrete surfaces, including approved sealant all to Structural Engineer's approval</u></b>				
3.2.9	15mm Joints not exceeding 300mm wide	m	13		
	<b><u>Saw-cut joints</u></b>				
3.2.10	13 x 13mm Saw-cut joints in top of concrete	m	15		
	<b><u>REINFORCEMENT</u></b>				
	<b><u>High tensile &amp; Mild steel reinforcement to structural concrete work</u></b>				
3.2.11	Various Diameter Bars	t	1.23		
	<b><u>Fabric reinforcement</u></b>				
3.2.12	Type 888 fabric reinforcement laid in surface beds, bases etc.	m2	67		
	<b>Carried Forward to Sectional Summary:</b>			<b>R</b>	
	<b>BLOCK A - GRD4+2UR</b>				
	<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
	<b>SIST CONSORTIUM</b>				

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>FOUNDATIONS</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u></b></p>				
3.3.1	One brick wall	m2	34		
	<p><b><u>SUPERSTRUCTURE</u></b></p> <p><b><u>FACE BRICKWORK</u></b></p> <p><b><u>Face brick (purchase price of R 4500/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b></p>				
3.3.2	Half brick walls for face brick pointed both sides	m2	33		
3.3.3	Half brick walls for face brick pointed both sides in beamfilling	m2	10		
3.3.4	One brick walls for face brick pointed both sides including wall ties	m2	189		
	<p><b><u>BRICKWORK SUNDRIES</u></b></p>				
	Carried forward				
	<p><b>BLOCK A - GRD4+2UR</b></p> <p><b>MASONRY</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

**Brought forward**

**R**

**Bagging of 1:3 cement and sand mixture**

- 3.3.5 On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric (LI)

m2 223

**Slip joints**

- 3.3.6 230mm Wide horizontal slip joints at junction of slabs and loadbearing brick walls consisting of two layers of 3 Ply Malthoid between concrete and masonry surfaces

m 62

**Brickwork reinforcement**

- 3.3.7 75mm Wide reinforcement built in horizontally

m 35

- 3.3.8 150mm Wide reinforcement built in horizontally

m 600

**Turning pieces**

- 3.3.9 230mm Wide turning piece to lintels, etc.

m 16

**Galvanised wire ties etc**

- 3.3.10 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber

No 31

**Air bricks etc**

- 3.3.11 229 x 152mm Terra-cotta vermin proof air brick

No 4

**FACE BRICKWORK**

**Face brick (purchase price of R 4500/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints**

- 3.3.12 Extra over brickwork for brick-on-edge header course lintel

m 16

- 3.3.13 Extra over brickwork for brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle

m 16

**Carried Forward to Sectional Summary:**

**R**

**BLOCK A - GRD4+2UR  
MASONRY  
SIST CONSORTIUM**

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 375 micron "Consol Plastics Brikqrip DPC" embossed damp proof course</u></b></p>				
3.4.1	In walls, in cavities, in lintels, under copings, under sills, etc.	m2	223		
	<p><b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" or equally approved waterproof sheeting sealed at laps with a suitable self adhesive tape</u></b></p>				
3.4.2	Under surface beds including turn ups	m2	67		
	<p><b><u>Two coats "ABE Brixal" or equal and approved bitumen emulsion waterproof coating</u></b></p>				
3.4.3	On brick walls	m2	143		
	<p><b><u>JOINT SEALANTS ETC</u></b></p> <p><b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b></p>				
3.4.4	13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary	m	13		
3.4.5	3 x 45mm In saw cut joints in floors	m	15		
	<p>Carried Forward to Sectional Summary:</p> <p><b>BLOCK A - GRD4+2UR</b></p> <p><b>WATERPROOFING</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS, ETC.</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0.6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u></b>			
3.5.1	Roof covering with pitch not exceeding 10 degrees	m2	80	
3.5.2	Sondor IBR pattern polyclosures to underside of ridge capping	m	29	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation FR430" or equal and approved Heavy Industrial Grade Aluminum Foil based insulation</u></b>			
3.5.3	Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires	m2	80	
	<b>Carried Forward to Sectional Summary:</b>			
	<b>BLOCK A - GRD4+2UR</b>			
	<b>ROOF COVERINGS</b>			
	<b>SIST CONSORTIUM</b>			

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 6</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>ROOF, ETC</u></b>			
	<b><u>Sawn softwood</u></b>			
3.6.1	38 x 114mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m as per drawinga No. MPPS-ARCH-100-00-R1	m	91	
	<b><u>Wrought softwood</u></b>			
3.6.2	38 x 114mm Wall plates	m	57	
3.6.3	76 x 50mm Purlins	m	233	
3.6.4	76 x 76mm Splayed gutter purlins	m	33	
3.6.5	38 x 114mm Timber backing board fixed onto rafter for fascia boards	m	43	
	<b><u>EAVES, VERGES, ETC.</u></b>			
	<b><u>Medium density fibre reinforced cement boards to comply with SANS 10400 Part L</u></b>			
3.6.6	12mm x 300mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers	m	33	
3.6.7	12mm x 300mm Barge boards including H-profile jointing strips	m	10	
	<b><u>DOORS, ETC.</u></b>			
	<b>Carried forward</b>			
	<b>BLOCK A - GRD4+2UR CARPENTRY AND JOINERY SIST CONSORTIUM</b>			
			R	

Brought forward			R
<u>Wrought meranti doors hung to steel frames</u>			
3.6.8	44mm Thick door size 813 x 2125mm High (D1)	No	2
3.6.9	44mm Thick door size 1000 x 2125mm high (D3)	No	1
Carried Forward to Sectional Summary:			R
BLOCK A - GRD4+2UR			
CARPENTRY AND JOINERY			
SIST CONSORTIUM			



**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

[illegible]

**Brought forward**

R

**Approved**

3.7.5	38mm Diameter rubber door stop plugged	No	3	
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**BATHROOM FITTINGS**

**Equal and approved**

3.7.6	Height: 385 mm Depth: 140 mm Width: 135mm metallic lockable Toilet 3 Roll Holder from Classic White Range. Durable and vandal proof with Anti-theft bracket available	No	5	
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3.7.7	Height: 522mm Depth: 160mm Width: 365mm Wall mounted Bin. Stainless Steel Range	No	3	
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3.7.8	Capacity: 20 litres Height: 600mm Depth: 125mm Width: 420 mm She Bin Stainless Steel Range	No	1	
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3.7.9	Code KB26, 300 x 300 x 300 x 50mm Stainless steel dog leg side grab rail fixed in position.	No	1	
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3.7.10	Code KB18, 800 long x 50mm Projecting stainless steel straight grab rail fixed in position	No	1	
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**Carried Forward to Sectional Summary:**

R

**BLOCK A - GRD4+2UR  
IRONMONGERY  
SIST CONSORTIUM**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>WELDED GALVANISED STEEL SCREENS, GATES, ETC.</u></b>			
	<b><u>Screens and gates</u></b>			
3.8.1	Single gate size 900 x 2032mm high of 60 x 40 x 2mm Mild steel rods at 110mm centres and 40 x 6mm horizontal supports with 20mm holes for vertical rods fixed onto 50 x 50 x 3mm Angle iron frame with 50 x 50mm Lugs welded on at 450mm centres and bolted to reveal with 10mm Diameter rawl bolts fixed to walls with bolts and lugs including opening for deadbolt - as per door schedule (All Buildings)	No	2	
	<b><u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u></b>			
	<b><u>1,6mm Double rebated pressed steel door frames suitable for one brick walls</u></b>			
3.8.2	Frame for door size 900 x 2032mm high	No	2	
3.8.3	Frame for door size 1000 x 2032mm high	No	1	
	<b><u>HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC.</u></b>			
	<b>Carried forward</b>			R
	<b>BLOCK A - GRD4+2UR METALWORK SIST CONSORTIUM</b>			

Brought forward			R
	<u>Hot-dipped galvanised steel residential top hung unit window. Unit code NE1 with 20 x 50mm hot-dipped galvanised flat bar to open sections preinstalled flat buglar bars including all window ironmongery in accordance with the Architect's window schedules (glazing elsewhere measured)</u>		
3.8.4	Window size 533 x 654mm high	No	7
3.8.5	Window size 1022 x 654mm high	No	3
Carried Forward to Sectional Summary:			R
BLOCK A - GRD4+2UR			
METALWORK			
SIST CONSORTIUM			

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p> <p><b><u>GENERAL</u></b></p> <p>V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate.</p>				
	<p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds steel trowelled on concrete</u></b></p>				
3.9.1	30mm Thick on floors	m2	67		
	<p><b><u>GRANOLITHIC</u></b></p> <p><b><u>Untinted granolithic, on concrete</u></b></p>				
3.9.2	35mm Thick on floors and landings	m2	8		
3.9.3	Skirtings 100mm high	m	16		
	<p><b><u>FLOOR AND WALLS SEALERS</u></b></p> <p><b><u>Minimum two coats approved epoxy coat:</u></b></p>				
3.9.4	On screed	m2	67		
	<p>Carried Forward to Sectional Summary:</p> <p><b>BLOCK A - GRD4+2UR</b></p> <p><b>PLASTERING</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PLUMBING</u></b>			
	<b>NOTE:</b> Prices for sanitary fittings fixed to walls or abutting walls, etc. shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>'Seamless' aluminium gutters</u></b>			
3.10.1	OGEE 125 x 75mm 0.6mm Seamless aluminium proprietary eaves eaves gutters with baked enamel finished fixed with concealed brackets	m	33	
3.10.2	Extra over eaves gutter for stopped ends	No	4	
3.10.3	Extra over eaves gutter for drop box suitable 155 x 100mm box gutter	No	2	
	<b><u>Aluminium downpipes</u></b>			
3.10.4	100 x 75mm 0.6mm Fluted aluminium downpipes with baked enamel finish	m	7	
3.10.5	Extra over rainwater downpipes for bends	No	4	
3.10.6	Extra over rainwater downpipes for shoes	No	2	
	<b><u>SANITARY FITTINGS</u></b>			
	<b>Carried forward</b>		R	
	<b>BLOCK A - GRD4+2UR PLUMBING AND DRAINAGE SIST CONSORTIUM</b>			

**Brought forward**

R

**"Vaal" or equal and approved**

3.10.7 Vaal Code 750200 Protea Paraplegic' or other approved white vitreous china paraplegic type low level W.C. suite comprising back outlet 'P'trap washdown pedestal pan,heavy duty white plastic hinged seat with flap and chromium plated brass bolts, 9 litre white vitreous china flushing valve type side inlet cistern complete with chromium plated brass extended lever handle, regulation ball valve ditto

No 1

3.10.8 Vaal Sanitaryware JUNIOR 104° LOW LEVEL SUITE PRODUCT CODE 751358 Pan & Cistern Pan Size 270 Wide , 280 Length & 305 Height. Vaal Sanitaryware vitreous china "Junior" 104° outlet washdown pan (code 751300) and matching 6 litre cistern (code 712034) complete with lid and fitments , and junior seat. Fit pan onto floor using a 4:1 cement mortar mix. A richer mixture could result in pedestal failure

No 4

3.10.9 LAVATERA WALL HUNG BOWL URINAL PRODUCT CODE 705426/705427 DESCRIPTION. Vaal Sanitaryware vitreous china wall hung "Lavatera" urinal with top inle (code 705426) or back inlet (code 705427). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 7054Z1) and back inlet fittings (code 7054Z2) include a 38 mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two brackets. No Traps Req

No 2

**"Atlas Plastics (Pty) Ltd" or equal and approved**

3.10.10 Granite colour: Christy lavatory basin size 570 x 400 x 245mm with one tap hole, with moulded in soap holder, with splashback. Sample to be approved by Architect.

No 1

**Precast concrete wash trough**

3.10.11 1065mm x 650mm x 900mm deep Outdoor commercial Lion Concrete Wash Trough Double (1065) SABS Approved. Inclusive of all waste fittings & Finishes. As per Architects drawing No. TSPS-ARCH-300-00

No 7

**SANITARY PLUMBING**

**Black uPVC UV stabilised pipes**

3.10.12 110mm Vent pipes

m 44

**Carried forward**

R

**BLOCK A - GRD4+2UR  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

**Brought forward**

R

**Extra over Black uPVC UV stabilised pipes for fittings**

3.10.13	Vent cowl formed of 110mm vent valve with top cut off and black shade cloth fixed over end of vent pipe	No	7
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**uPVC pipes**

3.10.14	50mm Pipes	m	4
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3.10.15	110mm Pipes	m	11
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**Extra over uPVC pipes for fittings**

3.10.16	50mm Bend	No	2
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3.10.17	110mm Bend	No	14
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3.10.18	50mm Access bend	No	1
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3.10.19	110mm Access bend	No	7
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3.10.20	50mm Junction	No	1
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3.10.21	110mm Junction	No	7
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3.10.22	110mm Reducing junction	No	7
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3.10.23	110mm Pan connector	No	7
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**TRAPS ETC**

**"Cobra Watertech" or equal and approved**

3.10.24	32 x 40mm Butyl rubber P-trap jointed to waste outlet fitting and to 50mm uPVC pipe including clamps	No	1
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3.10.25	40mm 360 CP bottle trap	No	1
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**WASTE UNIONS, ETC.**

**Carried forward**

R

**BLOCK A - GRD4+2UR  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**



**Brought forward**

R

**"Cobra Watertech" or equal and approved**

3.10.26	COBRA WATERTECH 32mm chrome plated basin waste (code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	1
3.10.27	COBRA WATERTECH 40mm chrome plated waste (Code: 309-40) with anti-theft plug and spindle.	No	4

**TAPS, VALVES, ETC**

**"Cobra Watertech" or equal and approved**

3.10.28	COBRA Wall Mounted 85mm projecting Commercial DEMAND BIB TAP - CHROME Vendor: Cobra SKU: FBBAN1DT-0GT01 complete with 1 Std male inlet. Diameter 30mm Spout to Deck Height: 24mm. Including all Plumbing, valves and fittings.	No	1
3.10.29	Cobra (Taps & Mixers) COB-505-21B - Medical Elbow Action - Taps - Pillar Taps - ChromeNotes: Elbow action. Square type. ¼ turn ceramic disc. Blue indice. ½"BSP MI SANS 226 TYPE 2 Includes , Pillar tap , Flanged backnut , Ideal for medical, kitchen and installations	No	2
3.10.30	15mm Chromium plated 'Star 136-15' stopcock	No	1
3.10.31	15mm Chromium plated 'Star 106-15' basin bibtap	No	1
3.10.32	"Code: FM1.210" C.P junior flushmaster exposed flushvalve with top entry flushpipe compression pan connector and wall flange rubber seat buffer and integral vacuum breaker	No	2

**WATER SUPPLIES**

**Class 0 copper pipes**

3.10.33	15mm Pipes	m	21
3.10.34	15mm Pipes chased into brick walls	m	18
3.10.35	22mm Pipes	m	13

**Carried forward**

R

**BLOCK A - GRD4+2UR  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

	<b>Brought forward</b>			R	
3.10.36	22mm Pipes chased into brick walls	m	3		
3.10.37	28mm Pipes	m	3		
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>				
3.10.38	15mm Fittings	No	3		
3.10.39	22mm Fittings	No	2		
3.10.40	28mm Fittings	No	2		
	<b><u>Extra over class 0 copper pipes for brass compression fittings</u></b>				
3.10.41	15mm Fittings	No	2		
3.10.42	22mm Fittings	No	2		
3.10.43	28mm Fittings	No	2		
	<b><u>Pipes laid below ground including excavations, backfill, etc. complete</u></b>				
	<b><u>Class 12 HDPE pipes</u></b>				
3.10.44	25mm Pipe laid in and including trenches not exceeding 1m deep	m	304		
3.10.45	50mm Pipe laid in and including trenches not exceeding 1m deep	m	45		
	<b><u>Extra over Class 12 HDPE pipes for fittings</u></b>				
3.10.46	25mm Bends	No	17		
3.10.47	50mm Reducer	No	4		
3.10.48	25mm Reducer	No	9		
3.10.49	50mm Tee	No	1		
3.10.50	25mm Tee	No	4		
	<b>Carried forward</b>			R	
	<b>BLOCK A - GRD4+2UR PLUMBING AND DRAINAGE SIST CONSORTIUM</b>				

Brought forward

R

**TESTING**

3.10.51 Allow for testing the whole of the sanitary plumbing and water supply

Item

Carried Forward to Sectional Summary:

**BLOCK A - GRD4+2UR  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

R

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 11</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>GLAZING TO WOOD/STEEL WITH PUTTY</u></b>			
	<b><u>6mm Thick obscure safety glass</u></b>			
3.11.1	Panes exceeding 0,5m² and not exceeding 2m²	m2	4	
	<b><u>MIRRORS, ETC</u></b>			
	<b><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b>			
3.11.2	Mirror 450 x 450mm high	No	5	
	<b>Carried Forward to Sectional Summary:</b>			
	<b>BLOCK A - GRD4+2UR</b>			
	<b>GLAZING</b>			
	<b>SIST CONSORTIUM</b>			
			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PAINTWORK, ETC. TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>			
	<b><u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use</u></b>			
3.12.1	Fascias and barge boards, including priming metal jointing strips	m2	21	
3.12.2	Skirtings, rails, etc not exceeding 300mm girth	m	34	
	<b><u>ON METAL SURFACES</u></b>			
	<b><u>Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></b>			
3.12.3	Door frames	m2	5	
3.12.4	On gates (Measured over the full flat area of both sides)	m2	20	
	<b><u>Spot prining defect in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u></b>			
3.12.5	On windows with burglar bars	m2	3	
	<b><u>ON WOOD SURFACES</u></b>			
	<b>Carried forward</b>			R
	<b>BLOCK A - GRD4+2UR PAINT WORK SIST CONSORTIUM</b>			

Brought forward

R

Prepare surfaces and remove all loose material, apply one coat wood primer, one coat alkyd based universal undercoat and two coats super quality gloss paint. Colour TBC. by Architect (sand between coats)

3.12.6 On doors m2 20

3.12.7 Skirtings, rails, etc not exceeding 300mm girth m 68

Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint

3.12.8 Roof timbers at eaves and verges m2 20

Carried Forward to Sectional Summary:

R

BLOCK A - GRD4+2UR  
PAINT WORK  
SIST CONSORTIUM

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Bill No	<u>SUMMARY</u>	Page No	Amount
3.1	EARTHWORKS	32	
3.2	CONCRETE, FORMWORK AND REINFORCEMENT	34	
3.3	MASONRY	36	
3.4	WATERPROOFING	37	
3.5	ROOF COVERINGS	38	
3.6	CARPENTRY AND JOINERY	40	
3.7	IRONMONGERY	42	
3.8	METALWORK	44	
3.9	PLASTERING	45	
3.10	PLUMBING AND DRAINAGE	51	
3.11	GLAZING	52	
3.12	PAINT WORK	54	
BLOCK A - GRD4+2UR SIST CONSORTIUM			
Carried to Final Summary			R

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>EARTHWORKS</u></b>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>SITE CLEARANCE, ETC</u></b>				
	<b><u>Site clearance</u></b>				
4.1.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	101		
4.1.2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	101		
	<b><u>EXCAVATION OTHER THAN BULK</u></b>				
	<b><u>Excavate in earth not exceeding 2m deep</u></b>				
4.1.3	To reduce levels under floors	m3	29		
	<b><u>Excavation in earth not exceeding 2m deep</u></b>				
4.1.4	Trenches	m3	22		
4.1.5	Holes (latrine pit)	m3	74		
	<b><u>Excavation in earth exceeding 2m but not exceeding 4m deep</u></b>				
4.1.6	Holes (latrine pit)	m3	7		
	<b>Carried forward</b>				R
	<b>BLOCK B - SM2+2UR+SFD4 EARTHWORKS SIST CONSORTIUM</b>				



	<b>Brought forward</b>			<b>R</b>	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
4.1.7	Soft rock	m3	10		
4.1.8	Hard rock	m3	21		
	<b><u>WORKING SPACE</u></b>				
	<b><u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u></b>				
4.1.9	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	m2	74		
	<b><u>Extra over back excavation in earth for working space for excavation in soft rock</u></b>				
4.1.10	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	2		
	<b><u>Extra over back excavation in earth for working space for excavation in hard rock</u></b>				
4.1.11	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	15		
	<b><u>CARTING AWAY</u></b>				
	<b><u>Extra over all excavations for carting away</u></b>				
4.1.12	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.( No allowance made for increase in bulk, to be factored in rate)	m3	93		
	<b><u>RISK OF COLLAPSE</u></b>				
	<b><u>Risk of collapse of excavations</u></b>				
4.1.13	Sides of trench and hole excavations not exceeding 1,5m deep	m2	107		
4.1.14	Sides of trench and hole excavations exceeding 1,5m deep	m2	3		
	<b>Carried forward</b>			<b>R</b>	
	<b>BLOCK B - SM2+2UR+SFD4 EARTHWORKS SIST CONSORTIUM</b>				

<b>Brought forward</b>				<b>R</b>
<b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>				
<b><u>Keeping excavations free of water</u></b>				
4.1.15	Keeping excavations free of all water other than subterranean water		Item	
<b><u>FILLING, ETC:</u></b>				
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u></b>				
4.1.16	Backfilling to trenches, holes, etc	m3	9	
<b><u>Layerworks</u></b>				
4.1.17	Imported G5 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density	m3	10	
4.1.18	G2 Layer	m3	10	
<b><u>COMPACTION</u></b>				
<b><u>Compaction of surfaces</u></b>				
4.1.19	Trim, level off and 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	114	
<b><u>TESTS</u></b>				
<b><u>Prescribed density tests on filling</u></b>				
4.1.20	"Modified AASHTO Density" test on request by the engineer	No	2	
4.1.21	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	2	
<b><u>SOIL POISONING</u></b>				
<b>Carried forward</b>				<b>R</b>
<b>BLOCK B - SM2+2UR+SFD4 EARTHWORKS SIST CONSORTIUM</b>				

**Brought forward**

**R**

**Approved brand of anti-termite soil poison applied  
by a Registered Pest control company and  
guaranteed against termite infestation for ten years.  
Soil Insecticide in accordance with SANS 5859**

4.1.22	Poisoning of ground surfaces under floors against termites as described including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described	m2	114
4.1.23	To bottoms and sides of trenches etc	m2	182

**Carried Forward to Sectional Summary:**

**R**

**BLOCK B - SM2+2UR+SFD4  
EARTHWORKS  
SIST CONSORTIUM**

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p> <p><b><u>15MPa/19mm concrete</u></b></p>				
4.2.1	Surface blinding under footings and bases	m3	4		
	<p><b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b></p> <p><b><u>25MPa/19mm concrete</u></b></p>				
4.2.2	Strip Footings	m3	7		
4.2.3	Surface beds	m3	10		
4.2.4	Pit base	m3	15		
4.2.5	Filling to cavity of hollow wall.	m3	4		
	<p><b><u>30MPa/19mm concrete</u></b></p>				
4.2.6	Slabs including beams and inverted beams	m3	17		
	<p><b><u>CONCRETE SUNDRIES</u></b></p>				
	Carried forward				
	<p><b>BLOCK B - SM2+2UR+SFD4</b></p> <p><b>CONCRETE, FORMWORK AND REINFORCEMENT</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

	Brought forward		R
<b><u>Test Blocks</u></b>			
4.2.7	Making and testing 150 x 150 x 150mm concrete strength test cube	No	13
<b><u>Finishing top surfaces of concrete smooth with a power float</u></b>			
4.2.8	Surface beds, slabs, etc	m <sup>2</sup>	49
<b><u>Finishing top surfaces of concrete smooth with a wood float finish</u></b>			
4.2.9	Surface beds, slabs, etc	m <sup>2</sup>	49
<b><u>FORMWORK</u></b>			
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
4.2.10	Bases	m <sup>2</sup>	11
4.2.11	Strip footings not exceeding 300mm high or wide	m	66
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<b><u>Rough formwork to sides</u></b>			
4.2.12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	38
<b><u>Rough formwork to soffits</u></b>			
4.2.13	Slabs not exceeding 250mm thick propped up not exceeding 3,5m high	m <sup>2</sup>	85
<b><u>MOVEMENT JOINTS</u></b>			
Carried forward			R
<b>BLOCK B - SM2+2UR+SFD4 CONCRETE, FORMWORK AND REINFORCEMENT SIST CONSORTIUM</b>			

Brought forward

R

**Expansion joints with polyethylene joint former "Jointex" between vertical concrete surfaces, including approved sealant all to Structural Engineer's approval**

4.2.14	15mm Joints not exceeding 300mm wide	m	20
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**Saw-cut joints**

4.2.15	13 x 13mm Saw-cut joints in top of concrete	m	11
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**REINFORCEMENT**

**High tensile & Mild steel reinforcement to structural concrete work**

4.2.16	Various Diameter Bars	t	3.24
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**Fabric reinforcement**

4.2.17	Type 888 fabric reinforcement laid in surface beds, bases etc.	m2	65
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Carried Forward to Sectional Summary:

R

**BLOCK B - SM2+2UR+SFD4  
CONCRETE, FORMWORK AND REINFORCEMENT  
SIST CONSORTIUM**

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>FOUNDATIONS</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u></b></p>				
4.3.1	One brick wall	m2	50		
	<p><b><u>SUPERSTRUCTURE</u></b></p> <p><b><u>FACE BRICKWORK</u></b></p> <p><b><u>Face brick (purchase price of R 4500/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b></p>				
4.3.2	Half brick walls for face brick pointed both sides	m2	86		
4.3.3	Half brick walls for face brick pointed both sides in beamfilling	m2	9		
4.3.4	One brick walls for face brick pointed both sides including wall ties	m2	157		
	<p><b><u>BRICKWORK SUNDRIES</u></b></p>				
	Carried forward				
	<p><b>BLOCK B - SM2+2UR+SFD4</b></p> <p><b>MASONRY</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

**Brought forward**

**R**

**Bagging of 1:3 cement and sand mixture**

- 4.3.5 On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric (LI)

m2 321

**Slip joints**

- 4.3.6 230mm Wide horizontal slip joints at junction of slabs and loadbearing brick walls consisting of two layers of 3 Ply Malthoid between concrete and masonry surfaces

m 67

**Brickwork reinforcement**

- 4.3.7 75mm Wide reinforcement built in horizontally

m 617

- 4.3.8 150mm Wide reinforcement built in horizontally

m 405

**Turning pieces**

- 4.3.9 230mm Wide turning piece to lintels, etc.

m 17

**Galvanised wire ties etc**

- 4.3.10 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber

No 29

**Air bricks etc**

- 4.3.11 229 x 152mm Terra-cotta vermin proof air brick

No 4

**FACE BRICKWORK**

**Face brick (purchase price of R 4500/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints**

- 4.3.12 Extra over brickwork for brick-on-edge header course lintel

m 17

- 4.3.13 Extra over brickwork for brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle

m 17

**Carried Forward to Sectional Summary:**

**R**

**BLOCK B - SM2+2UR+SFD4  
MASONRY  
SIST CONSORTIUM**



Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></b></p>				
4.4.1	<p>In walls, in cavities, in lintels, under copings, under sills, etc.</p> <p><b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" or equally approved waterproof sheeting sealed at laps with a suitable self adhesive tape</u></b></p>	m2	243		
4.4.2	<p>Under surface beds including turn ups</p> <p><b><u>Two coats "ABE Brixéal" or equal and approved bitumen emulsion waterproof coating</u></b></p>	m2	65		
4.4.3	<p>On brick walls</p> <p><b><u>JOINT SEALANTS ETC</u></b></p> <p><b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b></p>	m2	163		
4.4.4	<p>13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary</p>	m	13		
4.4.5	<p>3 x 45mm In saw cut joints in floors</p>	m	11		
	<p>Carried Forward to Sectional Summary:</p> <p><b>BLOCK B - SM2+2UR+SFD4</b></p> <p><b>WATERPROOFING</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS, ETC.</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0.6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u></b>			
4.5.1	Roof covering with pitch not exceeding 10 degrees	m2	72	
4.5.2	Sondor IBR pattern polyclosures to underside of ridge capping	m	15	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation FR430" or equal and approved Heavy Industrial Grade Aluminum Foil based insulation</u></b>			
4.5.3	Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires	m2	72	
	<b>Carried Forward to Sectional Summary:</b>			
	<b>BLOCK B - SM2+2UR+SFD4</b>			
	<b>ROOF COVERINGS</b>			
	<b>SIST CONSORTIUM</b>			

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>ROOF, ETC</u></b>			
	<b><u>Sawn softwood</u></b>			
4.6.1	38 x 114mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m as per drawinga No. MPPS-ARCH-100-00-R1	m	105	
	<b><u>Wrought softwood</u></b>			
4.6.2	38 x 114mm Wall plates	m	30	
4.6.3	76 x 50mm Purlins	m	100	
4.6.4	76 x 76mm Splayed gutter purlins	m	30	
4.6.5	38 x 114mm Timber backing board fixed onto rafter for fascia boards	m	40	
	<b><u>EAVES, VERGES, ETC.</u></b>			
	<b><u>Medium density fibre reinforced cement boards to comply with SANS 10400 Part L</u></b>			
4.6.6	12mm x 300mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers	m	30	
4.6.7	12mm x 300mm Barge boards including H-profile jointing strips	m	10	
	<b><u>DOORS, ETC.</u></b>			
	<b>Carried forward</b>		R	
	<b>BLOCK B - SM2+2UR+SFD4 CARPENTRY AND JOINERY SIST CONSORTIUM</b>			

**Brought forward**

R

**Wrought meranti doors hung to steel frames**

4.6.8	44mm Thick door size 813 x 2125mm High (D1)	No	2
4.6.9	44mm Thick door size 800 x 1975mm High (D2)	No	6
4.6.10	44mm Thick door size 1000 x 2125mm high (D3)	No	1

**Carried Forward to Sectional Summary:**

R

**BLOCK B - SM2+2UR+SFD4  
CARPENTRY AND JOINERY  
SIST CONSORTIUM**

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<u>Note: All ironmongery shall be for heavy duty use and must be in anodized aluminium or stainless steel</u>			
	<b><u>"Union" or equal and approved</u></b>			
4.7.1	AL5804-73AS ART 804C91 indicator bolts	No	6	
	<b><u>CATCHES, CABIN, HOOKS</u></b>			
	<b><u>Approved</u></b>			
4.7.2	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	9	
	<b><u>"Union/Assa Abloy" or equal and approved</u></b>			
4.7.3	"8352-100FLSS" 100 x 75 x 3mm Stainless steel ball bearing butt hinge	No	27	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal and approved</u></b>			
4.7.4	"21313-76" Four lever mortice lockset with stainless steel strike plate	No	10	
	<b><u>HANDLES</u></b>			
	<b><u>"Union" or equal and approved</u></b>			
4.7.5	"SSSD66L/R-24" Dove pull handle with 152 x 152mm Backplate screwed onto door panel	Pairs	10.0	
	<b>Carried forward</b>			
	<b>BLOCK B - SM2+2UR+SFD4</b>			
	<b>IRONMONGERY</b>			
	<b>SIST CONSORTIUM</b>			

R

**Brought forward**

R

**DOORSTOPS**

**Approved**

4.7.6	38mm Diameter rubber door stop plugged	No	10
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**BATHROOM FITTINGS**

**Equal and approved**

4.7.7	Height: 385 mm Depth: 140 mm Width: 135mm metallic lockable Toilet 3 Roll Holder from Classic White Range. Durable and vandal proof with Anti-theft bracket available	No	7
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4.7.8	Height: 522mm Depth: 160mm Width: 365mm Wall mounted Bin. Stainless Steel Range	No	3
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4.7.9	Capacity: 20 litres Height: 600mm Depth: 125mm Width: 420 mm She Bin Stainless Steel Range	No	5
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4.7.10	Code KB26, 300 x 300 x 300 x 50mm Stainless steel dog leg side grab rail fixed in position.	No	1
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4.7.11	Code KB18, 800 long x 50mm Projecting stainless steel straight grab rail fixed in position.	No	1
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**Carried Forward to Sectional Summary:**

R

**BLOCK B - SM2+2UR+SFD4  
IRONMONGERY  
SIST CONSORTIUM**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>WELDED GALVANISED STEEL SCREENS, GATES, ETC.</u></b>			
	<b><u>Screens and gates</u></b>			
4.8.1	Single gate size 900 x 2032mm high of 60 x 40 x 2mm Mild steel rods at 110mm centres and 40 x 6mm horizontal supports with 20mm holes for vertical rods fixed onto 50 x 50 x 3mm Angle iron frame with 50 x 50mm Lugs welded on at 450mm centres and bolted to reveal with 10mm Diameter rawl bolts fixed to walls with bolts and lugs including opening for deadbolt - as per door schedule (All Buildings)	No	2	
	<b><u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u></b>			
	<b><u>1,6mm Double rebated pressed steel door frames suitable for one brick walls</u></b>			
4.8.2	Frame for door size 900 x 2032mm high	No	2	
4.8.3	Frame for door size 1000 x 2032mm high	No	1	
	<b><u>1,6mm Double rebated pressed steel door frames suitable for half brick walls</u></b>			
4.8.4	Frame for door size 800 x 2032mm high	No	6	
	<b><u>HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC.</u></b>			
	<b>Carried forward</b>			R
	<b>BLOCK B - SM2+2UR+SFD4 METALWORK SIST CONSORTIUM</b>			

[illegible]



Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p> <p><b><u>GENERAL</u></b></p> <p>V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate.</p>				
	<p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds steel trowelled on concrete</u></b></p>				
4.9.1	30mm Thick on floors	m2	101		
	<p><b><u>GRANOLITHIC</u></b></p> <p><b><u>Untinted granolithic, on concrete</u></b></p>				
4.9.2	35mm Thick on floors and landings	m2	4		
4.9.3	Skirtings 100mm high	m	8		
	<p><b><u>FLOOR AND WALLS SEALERS</u></b></p> <p><b><u>Minimum two coats approved epoxy coat:</u></b></p>				
4.9.4	On screed	m2	101		
	<p style="text-align: right;">Carried Forward to Sectional Summary:</p> <p><b>BLOCK B - SM2+2UR+SFD4</b></p> <p><b>PLASTERING</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PLUMBING</u></b>			
	<b>NOTE:</b> Prices for sanitary fittings fixed to walls or abutting walls, etc. shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>'Seamless' aluminium gutters</u></b>			
4.10.1	OGEE 125 x 75mm 0.6mm Seamless aluminium proprietary eaves eaves gutters with baked enamel finished fixed with concealed brackets	m	30	
4.10.2	Extra over eaves gutter for stopped ends	No	4	
4.10.3	Extra over eaves gutter for drop box suitable 155 x 100mm box gutter	No	2	
	<b><u>Aluminium downpipes</u></b>			
4.10.4	100 x 75mm 0.6mm Fluted aluminium downpipes with baked enamel finish	m	7	
4.10.5	Extra over rainwater downpipes for bends	No	4	
4.10.6	Extra over rainwater downpipes for shoes	No	2	
	<b><u>SANITARY FITTINGS</u></b>			
	<b>Carried forward</b>		R	
	<b>BLOCK B - SM2+2UR+SFD4 PLUMBING AND DRAINAGE SIST CONSORTIUM</b>			

**Brought forward**

R

**"Vaal" or equal and approved**

4.10.7	Vaal Aquasave Code 755499' or other approved white vitreous china low level WC suite comprising washdown pan fitted with 'De Luxe' heavy duty double flap white plastic seat, flush pipe and 6 litre cistern.	No	6
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4.10.8	Vaal Code 750200 Protea Paraplegic' or other approved white vitreous china paraplegic type low level W.C. suite comprising back outlet 'P' trap washdown pedestal pan, heavy duty white plastic hinged seat with flap and chromium plated brass bolts, 9 litre white vitreous china flushing valve type side inlet cistern complete with chromium plated brass extended lever handle, regulation ball valve ditto	No	1
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4.10.9	LAVATERA WALL HUNG BOWL URINAL PRODUCT CODE 705426/705427 DESCRIPTION. Vaal Sanitaryware vitreous china wall hung "Lavatera" urinal with top inle (code 705426) or back inlet (code 705427). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 7054Z1) and back inlet fittings (code 7054Z2) include a 38 mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two brackets. No Traps Req	No	2
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**"Atlas Plastics (Pty) Ltd" or equal and approved**

4.10.10	Granite colour: Christy lavatory basin size 570 x 400 x 245mm with one tap hole, with moulded in soap holder, with splashback. Sample to be approved by Architect.	No	1
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**Precast concrete wash trough**

4.10.11	1065mm x 650mm x 900mm deep Outdoor commercial Lion Concrete Wash Trough Double (1065) SABS Approved. Inclusive of all waste fittings & Finishes. As per Architects drawing No. TSPS-ARCH-300-00	No	3
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**SANITARY PLUMBING**

**Black uPVC UV stabilised pipes**

4.10.12	110mm Vent pipes	m	40
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**Carried forward**

R

**BLOCK B - SM2+2UR+SFD4  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

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**Brought forward**

R

**"Cobra Watertech" or equal and approved**

4.10.26	COBRA WATERTECH 32mm chrome plated basin waste (code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	1
4.10.27	COBRA WATERTECH 40mm chrome plated waste (Code: 309-40) with anti-theft plug and spindle.	No	3

**TAPS, VALVES, ETC**

**"Cobra Watertech" or equal and approved**

4.10.28	COBRA Wall Mounted 85mm projecting Commercial DEMAND BIB TAP - CHROME Vendor: Cobra SKU: FBBAN1DT-0GT01 complete with 1 Std male inlet. Diameter 30mm Spout to Deck Height: 24mm. Including all Plumbing, valves and fittings.	No	1
4.10.29	Cobra (Taps & Mixers) COB-505-21B - Medical Elbow Action - Taps - Pillar Taps - ChromeNotes: Elbow action. Square type. ¼ turn ceramic disc. Blue indice. ½"BSP MI SANS 226 TYPE 2 Includes , Pillar tap , Flanged backnut , Ideal for medical, kitchen and installations	No	1
4.10.30	15mm Chromium plated 'Star 136-15' stopcock	No	4
4.10.31	15mm Chromium plated elbow action pillartap (code 503-21B)	No	1
4.10.32	"Code: FM1.210" C.P junior flushmaster exposed flushvalve with top entry flushpipe compression pan connector and wall flange rubber seat buffer and integral vacuum breaker	No	1

**WATER SUPPLIES**

**Class 0 copper pipes**

4.10.33	15mm Pipes	m	3
4.10.34	15mm Pipes chased into brick walls	m	2
4.10.35	22mm Pipes	m	2

**Carried forward**

R

**BLOCK B - SM2+2UR+SFD4  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

**Brought forward**

R

4.10.36	22mm Pipes chased into brick walls	m	2
4.10.37	28mm Pipes	m	3
<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>			
4.10.38	15mm Fittings	No	3
4.10.39	22mm Fittings	No	2
4.10.40	28mm Fittings	No	2
<b><u>Extra over class 0 copper pipes for brass compression fittings</u></b>			
4.10.41	15mm Fittings	No	2
4.10.42	22mm Fittings	No	2
4.10.43	28mm Fittings	No	2
<b><u>TESTING</u></b>			
4.10.44	Allow for testing the whole of the sanitary plumbing and water supply		Item

**Carried Forward to Sectional Summary:**

R

**BLOCK B - SM2+2UR+SFD4  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 11</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>GLAZING TO WOOD/STEEL WITH PUTTY</u></b>			
	<b><u>6mm Thick obscure safety glass</u></b>			
4.11.1	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m2	4	
	<b><u>MIRRORS, ETC</u></b>			
	<b><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b>			
4.11.2	Mirror 450 x 450mm high	No	5	
	Carried Forward to Sectional Summary:			
	<b>BLOCK B - SM2+2UR+SFD4</b>			
	<b>GLAZING</b>			
	<b>SIST CONSORTIUM</b>			
			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PAINTWORK, ETC. TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>			
	<b><u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use</u></b>			
4.12.1	Fascias and barge boards, including priming metal jointing strips	m2	20	
4.12.2	Skirtings, rails, etc not exceeding 300mm girth	m	30	
	<b><u>ON METAL SURFACES</u></b>			
	<b><u>Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></b>			
4.12.3	Door frames	m2	14	
4.12.4	On gates (Measured over the full flat area of both sides)	m2	8	
	<b><u>Spot prining defect in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u></b>			
4.12.5	On windows with burglar bars	m2	10	
	<b><u>ON WOOD SURFACES</u></b>			
	Carried forward		R	
	<b>BLOCK B - SM2+2UR+SFD4 PAINT WORK SIST CONSORTIUM</b>			



Brought forward

R

Prepare surfaces and remove all loose material, apply one coat wood primer, one coat alkyd based universal undercoat and two coats super quality gloss paint. Colour TBC. by Architect (sand between coats)

4.12.6 On doors m2 56

4.12.7 Skirtings, rails, etc not exceeding 300mm girth m 60

Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint

4.12.8 Roof timbers at eaves and verges m2 18

Carried Forward to Sectional Summary:

R

**BLOCK B - SM2+2UR+SFD4**  
**PAINT WORK**  
**SIST CONSORTIUM**

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Bill No	<u>SUMMARY</u>	Page No	Amount
4.1	EARTHWORKS	59	
4.2	CONCRETE, FORMWORK AND REINFORCEMENT	62	
4.3	MASONRY	64	
4.4	WATERPROOFING	65	
4.5	ROOF COVERINGS	66	
4.6	CARPENTRY AND JOINERY	68	
4.7	IRONMONGERY	70	
4.8	METALWORK	72	
4.9	PLASTERING	73	
4.10	PLUMBING AND DRAINAGE	78	
4.11	GLAZING	79	
4.12	PAINT WORK	81	
<p style="text-align: right;"><b>Carried to Final Summary</b></p> <p><b>BLOCK B - SM2+2UR+SFD4</b> <b>SIST CONSORTIUM</b></p>			
			R

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>EARTHWORKS</u></b>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>SITE CLEARANCE, ETC</u></b>				
	<b><u>Site clearance</u></b>				
5.1.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	71		
5.1.2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	71		
	<b><u>EXCAVATION OTHER THAN BULK</u></b>				
	<b><u>Excavate in earth not exceeding 2m deep</u></b>				
5.1.3	To reduce levels under floors	m3	21		
	<b><u>Excavation in earth not exceeding 2m deep</u></b>				
5.1.4	Trenches	m3	21		
5.1.5	Holes (latrine pit)	m3	57		
	<b><u>Excavation in earth exceeding 2m but not exceeding 4m deep</u></b>				
5.1.6	Holes (latrine pit)	m3	5		
	<b>Carried forward</b>				R
	<b>BLOCK C - MD2+2UR EARTHWORKS SIST CONSORTIUM</b>				

	<b>Brought forward</b>			<b>R</b>	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
5.1.7	Soft rock	m3	8		
5.1.8	Hard rock	m3	18		
	<b><u>WORKING SPACE</u></b>				
	<b><u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u></b>				
5.1.9	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	m2	75		
	<b><u>Extra over back excavation in earth for working space for excavation in soft rock</u></b>				
5.1.10	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	2		
	<b><u>Extra over back excavation in earth for working space for excavation in hard rock</u></b>				
5.1.11	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	14		
	<b><u>CARTING AWAY</u></b>				
	<b><u>Extra over all excavations for carting away</u></b>				
5.1.12	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.( No allowance made for increase in bulk, to be factored in rate)	m3	75		
	<b><u>RISK OF COLLAPSE</u></b>				
	<b><u>Risk of collapse of excavations</u></b>				
5.1.13	Sides of trench and hole excavations not exceeding 1,5m deep	m2	102		
5.1.14	Sides of trench and hole excavations exceeding 1,5m deep	m2	8		
	<b>Carried forward</b>			<b>R</b>	
	<b>BLOCK C - MD2+2UR EARTHWORKS SIST CONSORTIUM</b>				

<b>Brought forward</b>				<b>R</b>
<b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>				
<b><u>Keeping excavations free of water</u></b>				
5.1.15	Keeping excavations free of all water other than subterranean water		Item	
<b><u>FILLING, ETC:</u></b>				
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u></b>				
5.1.16	Backfilling to trenches, holes, etc	m3	9	
<b><u>Layerworks</u></b>				
5.1.17	Imported G5 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density	m3	7	
5.1.18	G2 Layer	m3	7	
<b><u>COMPACTION</u></b>				
<b><u>Compaction of surfaces</u></b>				
5.1.19	Trim, level off and 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	84	
<b><u>TESTS</u></b>				
<b><u>Prescribed density tests on filling</u></b>				
5.1.20	"Modified AASHTO Density" test on request by the engineer	No	2	
5.1.21	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	2	
<b><u>SOIL POISONING</u></b>				
<b>Carried forward</b>				<b>R</b>
<b>BLOCK C - MD2+2UR EARTHWORKS SIST CONSORTIUM</b>				

Brought forward

R

Approved brand of anti-termite soil poison applied  
by a Registered Pest control company and  
guaranteed against termite infestation for ten years.  
Soil Insecticide in accordance with SANS 5859

5.1.22 Poisoning of ground surfaces under floors against  
termites as described including raking out 50 mm deep  
v-shaped channel against inner face of walls, etc., and  
flooding with termite poisoning as described

m2

84

5.1.23 To bottoms and sides of trenches etc

m2

171

Carried Forward to Sectional Summary:

**BLOCK C - MD2+2UR  
EARTHWORKS  
SIST CONSORTIUM**

R

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>				
	<b><u>BILL NO. 2</u></b>				
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
5.2.1	Surface blinding under footings and bases	m3	3		
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
	<b><u>25MPa/19mm concrete</u></b>				
5.2.2	Strip Footings	m3	7		
5.2.3	Bases	m3	0.3		
5.2.4	Surface beds	m3	7		
5.2.5	Pit base	m3	11		
5.2.6	Filling to cavity of hollow wall.	m3	3		
	<b><u>30MPa/19mm concrete</u></b>				
5.2.7	Slabs including beams and inverted beams	m3	14		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b>Carried forward</b>			R	
	<b>BLOCK C - MD2+2UR CONCRETE, FORMWORK AND REINFORCEMENT SIST CONSORTIUM</b>				

	Brought forward		R
<b><u>Test Blocks</u></b>			
5.2.8	Making and testing 150 x 150 x 150mm concrete strength test cube	No	14
<b><u>Finishing top surfaces of concrete smooth with a power float</u></b>			
5.2.9	Surface beds, slabs, etc	m <sup>2</sup>	38
<b><u>Finishing top surfaces of concrete smooth with a wood float finish</u></b>			
5.2.10	Surface beds, slabs, etc	m <sup>2</sup>	77
<b><u>FORMWORK</u></b>			
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
<b><u>Rough formwork to sides</u></b>			
5.2.11	Bases	m <sup>2</sup>	10
5.2.12	Strip footings not exceeding 300mm high or wide	m	62
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<b><u>Rough formwork to sides</u></b>			
5.2.13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30
<b><u>Rough formwork to soffits</u></b>			
5.2.14	Slabs not exceeding 250mm thick propped up not exceeding 3,5m high	m <sup>2</sup>	69
<b><u>MOVEMENT JOINTS</u></b>			
<b><u>Carried forward</u></b>			
<b>BLOCK C - MD2+2UR CONCRETE, FORMWORK AND REINFORCEMENT SIST CONSORTIUM</b>			
<b>R</b>			



Brought forward

R

**Expansion joints with polyethylene joint former "Jointex" between vertical concrete surfaces, including approved sealant all to Structural Engineer's approval**

5.2.15 15mm Joints not exceeding 300mm wide

m

15

**Saw-cut joints**

5.2.16 13 x 13mm Saw-cut joints in top of concrete

m

12

**REINFORCEMENT**

**High tensile & Mild steel reinforcement to structural concrete work**

5.2.17 Various Diameter Bars

t

2.75

**Fabric reinforcement**

5.2.18 Type 888 fabric reinforcement laid in surface beds, bases etc.

m2

46

Carried Forward to Sectional Summary:

R

**BLOCK C - MD2+2UR  
CONCRETE, FORMWORK AND REINFORCEMENT  
SIST CONSORTIUM**

[illegible]

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>FOUNDATIONS</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u></b></p>				
5.4.1	One brick wall	m2	49		
	<p><b><u>SUPERSTRUCTURE</u></b></p> <p><b><u>FACE BRICKWORK</u></b></p> <p><b><u>Face brick (purchase price of R 4500/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b></p>				
5.4.2	Half brick walls for face brick pointed both sides	m2	45		
5.4.3	Half brick walls for face brick pointed both sides in beamfilling	m2	6		
5.4.4	One brick walls for face brick pointed both sides including wall ties	m2	104		
	<p><b><u>BRICKWORK SUNDRIES</u></b></p>				
	Carried forward				
	<p><b>BLOCK C - MD2+2UR</b></p> <p><b>MASONRY</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

	<b>Brought forward</b>			<b>R</b>	
	<b><u>Bagging of 1:3 cement and sand mixture</u></b>				
5.4.5	On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric (LI)	m2	212		
	<b><u>Slip joints</u></b>				
5.4.6	230mm Wide horizontal slip joints at junction of slabs and loadbearing brick walls consisting of two layers of 3 Ply Malthoid between concrete and masonry surfaces	m	41		
	<b><u>Brickwork reinforcement</u></b>				
5.4.7	75mm Wide reinforcement built in horizontally	m	474		
5.4.8	150mm Wide reinforcement built in horizontally	m	333		
	<b><u>Turning pieces</u></b>				
5.4.9	230mm Wide turning piece to lintels, etc.	m	14		
	<b><u>Galvanised wire ties etc</u></b>				
5.4.10	30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber	No	26		
	<b><u>Air bricks etc</u></b>				
5.4.11	229 x 152mm Terra-cotta vermin proof air brick	No	4		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>Face brick (purchase price of R 4500/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u></b>				
5.4.12	Extra over brickwork for brick-on-edge header course lintel	m	14		
5.4.13	Extra over brickwork for brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	14		
	<b>Carried Forward to Sectional Summary:</b>			<b>R</b>	
	<b>BLOCK C - MD2+2UR</b>				
	<b>MASONRY</b>				
	<b>SIST CONSORTIUM</b>				

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 5</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p>				
	<p><b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 375 micron "Consol Plastics Brikqrip DPC" embossed damp proof course</u></b></p>				
5.5.1	In walls, in cavities, in lintels, under copings, under sills, etc.	m2	148		
	<p><b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" or equally approved waterproof sheeting sealed at laps with a suitable self adhesive tape</u></b></p>				
5.5.2	Under surface beds including turn ups	m2	46		
	<p><b><u>Two coats "ABE Brixal" or equal and approved bitumen emulsion waterproof coating</u></b></p>				
5.5.3	On brick walls	m2	109		
	<p><b><u>JOINT SEALANTS ETC</u></b></p> <p><b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b></p>				
5.5.4	13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary	m	9		
5.5.5	3 x 45mm In saw cut joints in floors	m	12		
	<p><b>Carried Forward to Sectional Summary:</b></p> <p><b>BLOCK C - MD2+2UR</b></p> <p><b>WATERPROOFING</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>ROOF COVERINGS, ETC.</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0.6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u></b>			
5.6.1	Roof covering with pitch not exceeding 10 degrees	m2	64	
5.6.2	Sondor IBR pattern polyclosures to underside of ridge capping	m	13	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>"Sisalation FR430" or equal and approved Heavy Industrial Grade Aluminum Foil based insulation</u></b>			
5.6.3	Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires	m2	64	
	<b>Carried Forward to Sectional Summary:</b>			
	<b>BLOCK C - MD2+2UR</b>			
	<b>ROOF COVERINGS</b>			
	<b>SIST CONSORTIUM</b>			
			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>ROOF, ETC</u></b>			
	<b><u>Sawn softwood</u></b>			
5.7.1	38 x 114mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m as per drawinga No. MPPS-ARCH-100-00-R1	m	53	
	<b><u>Wrought softwood</u></b>			
5.7.2	38 x 114mm Wall plates	m	27	
5.7.3	76 x 50mm Purlins	m	73	
5.7.4	76 x 76mm Splayed gutter purlins	m	27	
5.7.5	38 x 114mm Timber backing board fixed onto rafter for fascia boards	m	37	
	<b><u>EAVES, VERGES, ETC.</u></b>			
	<b><u>Medium density fibre reinforced cement boards to comply with SANS 10400 Part L</u></b>			
5.7.6	12mm x 300mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers	m	60	
5.7.7	12mm x 300mm Barge boards including H-profile jointing strips	m	10	
	<b><u>DOORS, ETC.</u></b>			
	<b>Carried forward</b>			
	<b>BLOCK C - MD2+2UR</b>			
	<b>CARPENTRY AND JOINERY</b>			
	<b>SIST CONSORTIUM</b>			

**Brought forward**

R

**Wrought meranti doors hung to steel frames**

5.7.8	44mm Thick door size 813 x 2125mm High (D1)	No	1
5.7.9	44mm Thick door size 800 x 1975mm High (D2)	No	2
5.7.10	44mm Thick door size 1000 x 2125mm high (D3)	No	1

**Carried Forward to Sectional Summary:**

R

**BLOCK C - MD2+2UR  
CARPENTRY AND JOINERY  
SIST CONSORTIUM**



**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<u>Note: All ironmongery shall be for heavy duty use and must be in anodized aluminium or stainless steel</u>			
	<b><u>CATCHES, CABIN, HOOKS</u></b>			
	<b><u>Approved</u></b>			
5.8.1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4	
	<b><u>"Union/Assa Abloy" or equal and approved</u></b>			
5.8.2	"8352-100FLSS" 100 x 75 x 3mm Stainless steel ball bearing butt hinge	No	12	
	<b><u>LOCKS</u></b>			
	<b><u>"Union" or equal and approved</u></b>			
5.8.3	"21313-76" Four lever mortice lockset with stainless steel strike plate	No	4	
	<b><u>HANDLES</u></b>			
	<b><u>"Union" or equal and approved</u></b>			
5.8.4	"SSSD66L/R-24" Dove pull handle with 152 x 152mm Backplate screwed onto door panel	Pairs	4.0	
	<b><u>DOORSTOPS</u></b>			
	<b>Carried forward</b>			R
	<b>BLOCK C - MD2+2UR</b>			
	<b>IRONMONGERY</b>			
	<b>SIST CONSORTIUM</b>			

Brought forward			R
<b><u>Approved</u></b>			
5.8.5	38mm Diameter rubber door stop plugged	No	4
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>Equal and approved</u></b>			
5.8.6	Height: 385 mm Depth: 140 mm Width: 135mm metallic lockable Toilet 3 Roll Holder from Classic White Range. Durable and vandal proof with Anti-theft bracket available	No	3
5.8.7	Height: 522mm Depth: 160mm Width: 365mm Wall mounted Bin. Stainless Steel Range	No	3
5.8.8	Code KB26, 300 x 300 x 300 x 50mm Stainless steel dog leg side grab rail fixed in position.	No	1
5.8.9	Code KB18, 800 long x 50mm Projecting stainless steel straight grab rail fixed in position.	No	1
Carried Forward to Sectional Summary:			R
BLOCK C - MD2+2UR			
IRONMONGERY			
SIST CONSORTIUM			

Item No	Description		Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>				
	<b><u>BILL NO. 9</u></b>				
	<b><u>METALWORK</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>WELDED GALVANISED STEEL SCREENS, GATES, ETC.</u></b>				
	<b><u>Screens and gates</u></b>				
5.9.1	Single gate size 900 x 2032mm high of 60 x 40 x 2mm Mild steel rods at 110mm centres and 40 x 6mm horizontal supports with 20mm holes for vertical rods fixed onto 50 x 50 x 3mm Angle iron frame with 50 x 50mm Lugs welded on at 450mm centres and bolted to reveal with 10mm Diameter rawl bolts fixed to walls with bolts and lugs including opening for deadbolt - as per door schedule (All Buildings)	No	1		
	<b><u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u></b>				
	<b><u>1,6mm Double rebated pressed steel door frames suitable for one brick walls</u></b>				
5.9.2	Frame for door size 900 x 2032mm high	No	1		
5.9.3	Frame for door size 1000 x 2032mm high	No	1		
	<b><u>1,6mm Double rebated pressed steel door frames suitable for half brick walls</u></b>				
5.9.4	Frame for door size 800 x 2032mm high	No	2		
	<b><u>HOT DIPPED GALVANISED STEEL WINDOWS, DOORS, ETC.</u></b>				
	Carried forward			R	
	<b>BLOCK C - MD2+2UR METALWORK SIST CONSORTIUM</b>				

[illegible]

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 10</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>For preambles see " Specifications of materials and methods to be used - PW 371"</p> <p><b><u>GENERAL</u></b></p> <p>V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate.</p>				
	<p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds steel trowelled on concrete</u></b></p>				
5.10.1	30mm Thick on floors	m2	77		
	<p><b><u>GRANOLITHIC</u></b></p> <p><b><u>Untinted granolithic, on concrete</u></b></p>				
5.10.2	35mm Thick on floors and landings	m2	8		
5.10.3	Skirtings 100mm high	m	16		
	<p><b><u>INTERNAL PLASTER</u></b></p> <p><b><u>Cement plaster on brickwork, blockwork or concrete finished with a steel trowel</u></b></p>				
5.10.4	On walls	m2	167		
5.10.5	On narrow widths	m2	10		
	<p><b><u>FLOOR AND WALLS SEALERS</u></b></p>				
	<p style="text-align: right;"><b>Carried forward</b></p>				
	<p><b>BLOCK C - MD2+2UR</b></p> <p><b>PLASTERING</b></p> <p><b>SIST CONSORTIUM</b></p>			R	

Brought forward

R

Minimum two coats approved epoxy coat:

5.10.6 On screed

m2

77

Carried Forward to Sectional Summary:

**BLOCK C - MD2+2UR  
PLASTERING  
SIST CONSORTIUM**

R

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 11</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PLUMBING</u></b>			
	<b>NOTE:</b> Prices for sanitary fittings fixed to walls or abutting walls, etc. shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>'Seamless' aluminium gutters</u></b>			
5.11.1	OGEE 125 x 75mm 0.6mm Seamless aluminium proprietary eaves eaves gutters with baked enamel finished fixed with concealed brackets	m	60	
5.11.2	Extra over eaves gutter for stopped ends	No	8	
5.11.3	Extra over eaves gutter for drop box suitable 155 x 100mm box gutter	No	4	
	<b><u>Aluminium downpipes</u></b>			
5.11.4	100 x 75mm 0.6mm Fluted aluminium downpipes with baked enamel finish	m	15	
5.11.5	Extra over rainwater downpipes for bends	No	8	
5.11.6	Extra over rainwater downpipes for shoes	No	4	
	<b><u>SANITARY FITTINGS</u></b>			
	<b>Carried forward</b>			R
	<b>BLOCK C - MD2+2UR PLUMBING AND DRAINAGE SIST CONSORTIUM</b>			

**Brought forward**

R

**"Atlas Plastics (Pty) Ltd" or equal and approved**

5.11.7	Granite colour: Christy lavatory basin size 570 x 400 x 245mm with one tap hole, with moulded in soap holder, with splashback. Sample to be approved by Architect.	No	1
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**Precast concrete wash trough**

5.11.8	1065mm x 650mm x 900mm deep Outdoor commercial Lion Concrete Wash Trough Double (1065) SABS Approved. Inclusive of all waste fittings & Finishes. As per Architects drawing No. TSPS-ARCH-300-00	No	2
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**ENVIRO-LOO SYSTEM**

**Enviro-loo system**

5.11.9	Supply and install "Enviro-Loo" industrial 1040 Model, complete as per manufacture's specifications including all necessary COCs	No	3
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5.11.10	Supply and install "Enviro-Loo" 2-bowl urinal evaporative Tank system complete as per manufactures specifications including all necessary COCs	No	2
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**SANITARY PLUMBING**

**Black uPVC UV stabilised pipes**

5.11.11	110mm Vent pipes	m	24
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**Extra over Black uPVC UV stabilised pipes for fittings**

5.11.12	Vent cowl formed of 110mm vent valve with top cut off and black shade cloth fixed over end of vent pipe	No	5
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**uPVC pipes**

5.11.13	50mm Pipes	m	4
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5.11.14	110mm Pipes	m	6
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**Extra over uPVC pipes for fittings**

5.11.15	50mm Bend	No	2
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**Carried forward**

R

**BLOCK C - MD2+2UR  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**



**Brought forward**

R

5.11.16 110mm Bend No 10

5.11.17 50mm Access bend No 1

**TRAPS ETC**

**"Cobra Watertech" or equal and approved**

5.11.18 40mm 360 CP bottle trap No 1

**WASTE UNIONS, ETC.**

**"Cobra Watertech" or equal and approved**

5.11.19 COBRA WATERTECH 40mm chrome plated waste  
(Code: 309-40) with anti-theft plug and spindle. No 3

**TAPS, VALVES, ETC**

**"Cobra Watertech" or equal and approved**

5.11.20 15mm Chromium plated elbow action pillartap (code 503-21B) No 1

**WATER SUPPLIES**

**Class 0 copper pipes**

5.11.21 15mm Pipes m 3

5.11.22 15mm Pipes chased into brick walls m 2

**Extra over class 0 copper pipes for capillary fittings**

5.11.23 15mm Fittings No 3

**TESTING**

5.11.24 Allow for testing the whole of the sanitary plumbing and water supply Item

**Carried Forward to Sectional Summary:**

R

**BLOCK C - MD2+2UR  
PLUMBING AND DRAINAGE  
SIST CONSORTIUM**

Item No	Description		Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>				
	<b><u>BILL NO. 12</u></b>				
	<b><u>GLAZING</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>GLAZING TO WOOD/STEEL WITH PUTTY</u></b>				
	<b><u>6mm Thick obscure safety glass</u></b>				
5.12.1	Panes exceeding 0,5m² and not exceeding 2m²	m2	3		
	<b><u>MIRRORS, ETC</u></b>				
	<b><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b>				
5.12.2	Mirror 450 x 450mm high	No	3		
	<b>Carried Forward to Sectional Summary:</b>			R	
	<b>BLOCK C - MD2+2UR</b>				
	<b>GLAZING</b>				
	<b>SIST CONSORTIUM</b>				

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 13</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>PAINTWORK, ETC. TO NEW WORK</u></b>			
	<b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>			
	<b><u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use</u></b>			
5.13.1	Fascias and barge boards, including priming metal jointing strips	m2	18	
5.13.2	Skirtings, rails, etc not exceeding 300mm girth	m	69	
	<b><u>ON METAL SURFACES</u></b>			
	<b><u>Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></b>			
5.13.3	Door frames	m2	8	
5.13.4	On gates (Measured over the full flat area of both sides)	m2	12	
	<b><u>Spot prining defect in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u></b>			
5.13.5	On windows with burglar bars	m2	14	
	<b><u>ON WOOD SURFACES</u></b>			
	Carried forward		R	
	<b>BLOCK C - MD2+2UR PAINT WORK SIST CONSORTIUM</b>			

Brought forward

R

Prepare surfaces and remove all loose material, apply one coat wood primer, one coat alkyd based universal undercoat and two coats super quality gloss paint. Colour TBC. by Architect (sand between coats)

5.13.6 On doors m2 32

5.13.7 Skirtings, rails, etc not exceeding 300mm girth m 138

Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint

5.13.8 Roof timbers at eaves and verges m2 16

Carried Forward to Sectional Summary:

R

BLOCK C - MD2+2UR  
PAINT WORK  
SIST CONSORTIUM

**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

Bill No	SUMMARY	Page No	Amount
5.1	EARTHWORKS	86	
5.2	CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)	89	
5.3	PRECAST CONCRETE	90	
5.4	MASONRY	92	
5.5	WATERPROOFING	93	
5.6	ROOF COVERINGS	94	
5.7	CARPENTRY AND JOINERY	96	
5.8	IRONMONGERY	98	
5.9	METALWORK	100	
5.10	PLASTERING	102	
5.11	PLUMBING AND DRAINAGE	105	
5.12	GLAZING	106	
5.13	PAINT WORK	108	
Carried to Final Summary			R
BLOCK C - MD2+2UR SIST CONSORTIUM			

**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 6</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>BUDGETARY ALLOWANCES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>REFURBISHMENT OF EXISTING ENVIRO-LOO TOILETS</u></b>			
	<b><u>Refurbshment of Existing Enviro-Loo Toilets</u></b>			
6.1.1	Provide the amount of R100 000 (Hundred Thousand Rand) for <b>Refurbshment of Existing Enviro-loo Toilets</b>	Item		100 000,00
	<b><u>RENO-MATRESS</u></b>			
	<b><u>RENO-MATRESS</u></b>			
6.1.2	Provide the amount of R 25 000.00 (Twenty Five Thousand Rand) for Reno-Matress	Item		25 000,00
	<b>Carried to Final Summary</b>		R	
	<b>PROVISIONAL SUMS</b>			
	<b>PROVISIONAL SUMS</b>			
	<b>SIST CONSORTIUM</b>			

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>			
	<b><u>BILL NO.1</u></b>			
	<b><u>BOREHOLE INSTALLATION</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b>PREAMBLE</b>			
	<p>A desk top study and a geophysical investigation has been carried out at each school site earmarked for the installation of a borehole and a site drawing will be issued to the Contractor at site handover indicating the most feasible position for the proposed new borehole.</p> <p>This 'Performance Specification' details the minimum deliverables expected from the Contractor which will lead to the successful installation of the boreholes.</p>			
	<b>1. DRILLING OF BOREHOLE(S)</b>			
	<p>Generally rotary air percussion drilling with the application of foam will be required. Some boreholes may require mud flush/rotary or symetrix drilling where drilling targets are specified within unconsolidated geological formations. The assumed drilling method will be specified. For the purpose of this project it is assumed that all drilling will take place within consolidated rock and that normal percussion will be required. Depth of drilling and installation of steel casing within the upper weathered formation will vary and it is assumed that the drilling average will be about 120m; for the purpose of this project it is assumed that weathering occur to an average depth of 25m. Steel casing will be required along this upper zone and all steel casing supplied must conform to SABS 719 and SABS62, (177mm x 4mm).</p> <p>All drilling work needs to be carried out as per SANS 10299-2: Part 2: The Design, Construction and Drilling of Boreholes under the full time on site supervision of a Geohydrologist.</p>			
	<b>Carried forward</b>		R	
	<b>BOREHOLE INSTALLATION</b>			
	<b>BOREHOLE INSTALLATION</b>			
	<b>SIST CONSORTIUM</b>			

### Brought forward

The following will be required for the project:

- i. Prepare all Health and Safety documentation to carry out the work as per the current Occupational Health and Safety Standards;
- ii. Need to be registered with the Borehole Water Association of South Africa (BWA) and Groundwater Association of KwaZulu-Natal (GAKZN);
- iii. Establishment and de-establishment of a single "Air Percussion" drilling rig per school. All costs to include transportation, accommodation, subsistence, etc;
- iv. Provide costs for setting up at each school;
- v. Provide cost for drilling 216mm diameter holes down to approximately 25m per borehole (depths will vary), thereafter, 165mm diameter holes down to 120m;
- vi. Costs in 1(v) should include for the installation of casing down to 25m;
- vii. Provide costs for symetrix percussion drilling 203mm diameter down to 80m, include a cost for casing shoe and ringbit (In sandy areas only);
- viii. Provide a cost for developing the borehole(s) and carrying out a blow yield test;
- ix. Provide a cost for a sanitary seal and capping of the borehole(s);
- x. Penetration rates need to be recorded for each metre drilled;
- xi. The borehole "chip" samples need to be bagged per metre and kept. A "chip tray" should be priced for per borehole;
- xii. A detailed drillers log needs to be provided on completion of the borehole(s); and
- xiii. All surplus rock material needs to be removed off site.

## 2. PUMP TESTING OF BOREHOLE(S)

All work needs to be carried out as per SANS 10299. The following will be required for the project:

- i. Prepare all Health and Safety documentation to carry out the work as per the current Occupational Health and Safety

**Carried forward**

**BOREHOLE INSTALLATION  
BOREHOLE INSTALLATION  
SIST CONSORTIUM**

R

R



<b>Brought forward</b>	<b>R</b>
<p>Standards;</p> <ul style="list-style-type: none"> <li>ii. Need to be registered with the Borehole Water Association of South Africa (BWA) and Groundwater Association of KwaZulu-Natal (GAKZN);</li> <li>iii. Establishment and de-establishment of a single pump testing team per school. All costs to include, transportation, accommodation, subsistence, etc;</li> <li>iv. Provide costs for setting up at each school;</li> <li>v. Assume pump testing will be between 0.25ℓ/s and 5.0ℓ/s;</li> <li>vi. Provide costs for pump installation and removal down to approximately 100m;</li> <li>vii. Provide costs for 4No. x 1hr step drawdown test per borehole to determine a pumping rate for the constant discharge test;</li> <li>viii. Provide costs for a 12hr and 24 hr constant discharge test per borehole;</li> <li>ix. Provide costs for monitoring recovery of step test and constant discharge test;</li> <li>x. Provide costs for groundwater sampling of borehole(s). A 2ℓ water sample will need to be submitted to a SANAS Accredited laboratory for testing i.e. 1.5ℓ bottle for chemistry and 0.5ℓ amber glass bottle for microbiological analysis. The sampling bottles need to be sterile. Cost for laboratory analysis to be included. SANS 241-2015 testing.</li> <li>xi. Prepare a pump testing data log/report and submit to the appointed hydrogeologist to analyse. (Note this is only the fieldwork component, no interpretation of data).</li> </ul>	
<p><b>3. PUMP INSTALLATION FOR BOREHOLE(S)</b></p>	
<p>All work needs to be carried out as per SANS 10299. The following will be required for the project:</p>	
<ul style="list-style-type: none"> <li>i. Prepare all Health and Safety documentation to carry out the work as per the current Occupational Health and Safety Standards;</li> <li>ii. Need to be registered with the Borehole Water Association of South Africa (BWA) and Groundwater Association of KwaZulu-Natal (GAKZN);</li> <li>iii. Supply and install a submersible pump</li> </ul>	
<b>Carried forward</b>	<b>R</b>
<p><b>BOREHOLE INSTALLATION</b>  <b>BOREHOLE INSTALLATION</b>  <b>SIST CONSORTIUM</b></p>	

	<p style="text-align: right;"><b>Brought forward</b></p> <p>pumping up to 2.0ℓ/s;</p> <p>iv. Supply and install a 0.55kw up to 1.5kw 220volt motor. The motor selected will be depending on the requirement per school;</p> <p>v. All electrical and plumbing associated with the submersible pump to SANS (SABS) specifications and as indicated in SANS 10299;</p> <p>vi. All specifications in 3(v) should include joint kit, base plate and fittings, class 10 HDPE pipe, submersible cable, piping, control box, safety rope, electrical connections, etc;</p> <p>vii. Supply and install a manhole ring, cover and lockable galvanised lid;</p> <p>viii. Supply and install a 3m high galvanised tank stand and a 5000 litre tank with a concrete plinth base;</p> <p>ix. Supply and install all above ground piping to the tank stand and from tank stand to a single discharge point approximately 50m away, including trenching and backfilling;</p> <p>x. Supply and install a tap to connect to the tank stand to as indicated in 3(ix);</p> <p>xi. Provide all labour to install the above; and</p> <p>xii. Provide compliance certificates for all work.</p> <p><b><u>BOREHOLE INSTALLATION</u></b></p> <p><b><u>Borehole Installation</u></b></p>		R	
7.1.1	Provide a sum of R250,000.00 (Two Hundred and Fifty Thousand Rand) for the Borehole Installation	Item		250 000.00
	<p style="text-align: right;"><b>Carried to Final Summary</b></p> <p><b>BOREHOLE INSTALLATION</b> <b>BOREHOLE INSTALLATION</b> <b>SIST CONSORTIUM</b></p>		R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 8</u></b>			
	<b><u>BILL NO 1</u></b>			
	<b><u>BULK EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
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	-----			
	<b><u>BULK EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Extra over all excavations for</u></b>			
8.1.1	Cut to spoil on site to a dumping site to be located by the contractor	m3	107	
8.1.2	Cut to stockpile for future backfill to create platform levels, tenderers are advised to sequence construction operations accordingly	m3	63	
	<b><u>Keeping excavations free of water</u></b>			
8.1.3	Keeping excavations free of all water other than subterranean water		Item	
	<b>Carried Forward to Sectional Summary:</b>			
	<b>EXTERNAL WORKS</b>			
	<b>BULK EARTHWORKS</b>			
	<b>SIST CONSORTIUM</b>			
			R	

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 8</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>OPEN WALKWAYS</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<b><u>Site clearance</u></b>			
8.2.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	744	
	<b><u>EXCAVATION OTHER THAN BULK</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
8.2.2	Reduce levels under floors	m3	179	
8.2.3	Trenches	m3	14	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
8.2.4	Soft rock	m3	1	
8.2.5	Hard rock	m3	2	
	<b><u>WORKING SPACE</u></b>			
	<b>Carried forward</b>		R	
	<b>EXTERNAL WORKS</b>			
	<b>OPEN WALKWAYS</b>			
	<b>SIST CONSORTIUM</b>			

**Brought forward**

R

**Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density**

8.2.6	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	m2	150
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**Extra over back excavation in earth for working space for excavation in soft rock**

8.2.7	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	15
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**Extra over back excavation in earth for working space for excavation in hard rock**

8.2.8	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	30
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**CARTING AWAY**

**Extra over all excavations for carting way**

8.2.9	Surplus material from excavations and/or stocked piles on site to a dumping site to be located by the contractor	m3	193
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**RISK OF COLLAPSE**

**Risk of collapse of excavations**

8.2.10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	150
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**KEEPING EXCAVATIONS FREE OF WATER**

**Keeping excavations free of water**

8.2.11	Allow for keeping excavations free of water or mud by hand or machinery		Item
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**FILLING, ETC:**

**Carried forward**

R

**EXTERNAL WORKS  
OPEN WALKWAYS  
SIST CONSORTIUM**

<b>Brought forward</b>		<b>R</b>
<b><u>Layerworks</u></b>		
Imported G7 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density stabilised with an optimum moisture content of 2%	m3	74
Imported C4 stabilised natural gravel filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 98% Mod AASHTO density stabilised with an optimum moisture content of 2%	m3	74
<b><u>COMPACTION</u></b>		
<b><u>Compaction of surfaces</u></b>		
Compaction of ground surfaces 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 (LI)	m2	559
<b><u>TESTS</u></b>		
<b><u>Prescribed density tests on filling</u></b>		
Modified AASHTO Density test	No	9
"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	9
<b><u>SOIL POISONING</u></b>		
<b><u>Soil insecticide in accordance to SANS 5859</u></b>		
Under paved walkways, etc	m2	559
<b><u>PRECAST CONCRETE</u></b>		
<b><u>PRECAST CONCRETE KERBING</u></b>		
<b>Carried forward</b>		<b>R</b>
<b>EXTERNAL WORKS</b>		
<b>OPEN WALKWAYS</b>		
<b>SIST CONSORTIUM</b>		

Brought forward

R

**Concrete kerbing incl vertical joints between kerbs sealed with DOW CORNING 888 silicone joint sealant 6mm deep**

8.2.18 Fig. 12 Kerb (SABS 927) size 150 x 1000mm, on and including 75mm wide base and 200 x 200mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc. m 419

**CONCRETE, FORMWORK AND REINFORCEMENT**

**REINFORCED CONCRETE CAST ON/IN FORMWORK**

**20Mpa/19mm Concrete**

8.2.19 Foundation beams m3 8

**Test blocks**

8.2.20 Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith Sets 1

**MOVEMENT JOINTS, ETC.**

**Expansion joints with 10mm softboard between vertical concrete surfaces**

8.2.21 10mm Joints not exceeding 300mm high m 418

**ROUGH FORMWORK (DEGREE OF ACCURACY II)**

**Rough formwork to sides**

8.2.22 Aprons slabs, paving, walkways and ramps m 836

**REINFORCEMENT**

Carried forward

R

**EXTERNAL WORKS  
OPEN WALKWAYS  
SIST CONSORTIUM**

**Brought forward**

R

**High tensile & Mild steel reinforcement to structural concrete work**

8.2.23	Various Diameter Bars	t	0.79	
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**MASONRY**

**BRICK PAVING**

8.2.24	220 x 108 x 50mm Thick heavy duty Clay brick paving with butt joints including saw cutting and laid to interlocking pattern bedded on and including 50mm thick river sand	m2	496	
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**WATERPROOFING**

**Joint Sealants, etc**

**"ABE Flexothane" or equal and approved two-part grey polysulphide sealing compound including backing cord, bond breaking, primer, etc**

8.2.25	In 10mm joints not exceeding 300mm high	m	418	
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**Carried Forward to Sectional Summary:**

R

**EXTERNAL WORKS  
OPEN WALKWAYS  
SIST CONSORTIUM**



**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>CONCRETE APRONS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<b><u>Site clearance</u></b>			
8.3.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	247	
	<b><u>EXCAVATION OTHER THAN BULK</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
8.3.2	Reduced levels under floors	m3	32	
	<b><u>CARTING AWAY</u></b>			
	<b><u>Extra over all excavations for loading, carting and dumping surplus excavated material</u></b>			
8.3.3	Off site to be located by the contractor	m3	32	
	<b><u>COMPACTION</u></b>			
	<b><u>Compaction of surfaces</u></b>			
8.3.4	Compaction of ground surfaces 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	247	
	<b>Carried forward</b>			
	<b>EXTERNAL WORKS</b>			
	<b>CONCRETE V-DRAINS</b>			
	<b>SIST CONSORTIUM</b>			

**Brought forward**

R

**TESTS**

**Prescribed density tests on filling**

8.3.5	Modified AASHTO Density test	No	12
8.3.6	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	12

**SOIL POISONING**

**Soil insecticide in accordance to SANS 5859**

8.3.7	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	247
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**CONCRETE, FORMWORK AND REINFORCEMENT**

**REINFORCED CONCRETE CAST ON/IN FORMWORK**

**20MPa/19mm Concrete**

8.3.8	Surface beds, slabs, etc to falls and currents	m3	32
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**CONCRETE SUNDRIES**

**Finishing top surfaces of concrete with a wood float finish**

8.3.9	Concrete channel to falls	m2	247
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**Test blocks**

8.3.10	Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith	Sets	5
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**ROUGH FORMWORK (DEGREE OF ACCURACY II)**

**Carried forward**

R

**EXTERNAL WORKS  
CONCRETE V-DRAINS  
SIST CONSORTIUM**

**Brought forward**

R

**Rough formwork to sides**

8.3.11	V drains, paving and ramps not exceeding 300mm high	m	494
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**MOVEMENT JOINTS, ETC.**

**Expansion joints with 10mm softboard between vertical concrete and brick surfaces**

8.3.12	10mm Joints not exceeding 300mm high	m	247
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**REINFORCEMENT**

**Fabric reinforcement**

8.3.13	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	247
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**WATERPROOFING**

**JOINT SEALANTS, ETC**

**"ABE Flexothane" or equal and approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc**

8.3.14	In 10mm joints not exceeding 300mm high	m	247
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**Carried Forward to Sectional Summary:**

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**EXTERNAL WORKS  
CONCRETE V-DRAINS  
SIST CONSORTIUM**

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>				
	<b><u>BILL NO. 4</u></b>				
	<b><u>EXTERNAL WORKS</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	For preambles see " Specifications of materials and methods to be used - PW 371"				
	<b><u>SOIL DRAINAGE</u></b>				
	<b><u>Heavy duty (Class 34) uPVC sewer and drain pipes</u></b>				
8.4.1	160mm Pipes laid in and including trenches not exceeding 1m deep	m	24		
8.4.2	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	15		
	<b><u>Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings</u></b>				
8.4.3	160mm Bend	No	4		
8.4.4	160mm Junction	No	2		
8.4.5	160mm Rodding eye	No	1		
	<b><u>Extra over all excavations for excavation in</u></b>				
8.4.6	Intermediate material	m3	2		
8.4.7	Hard rock	m3	3		
	<b><u>MANHOLES &amp; CATCHPITS</u></b>				
	Tenderers are to price all items in this section of work as per Engineers drawing no: 01-2119-110-03/04 Rev A				
	<b>Carried forward</b>			R	
	<b>EXTERNAL WORKS</b>				
	<b>SOIL DRAINAGE</b>				
	<b>SIST CONSORTIUM</b>				

Brought forward				R
	<u>Excavate and build 1000mm diameter circular manhole formed from precast concrete splay rebated rings not less than 65mm thick and jointed with suitable watertight joint, built off and including 20Mpa/19mm 250mm thick concrete base and fitted with precast cover and frame (elsewhere) benching up in 20MPa/8mm concrete and finished smooth in 1:1 cement plaster around channels</u>			
8.4.8	Depth exceeding not exceeding 1m deep internally	No	3	
8.4.9	Depth exceeding 1m and not exceeding 2m deep internally	No	1	
<b><u>COVERS &amp; GRATINGS</u></b>				
<b><u>Precast concrete covers, etc.</u></b>				
8.4.10	1130mm Diameter heavy duty precast concrete cover lid fitted with lifting lugs including recessed precast concrete frame jointed to circular manhole rings	No	4	
<b><u>Cast iron gratings, covers, etc</u></b>				
8.4.11	550mm diameter heavy duty type 2 cast iron manhole cover and frame	No	4	
<b><u>SUNDRIES</u></b>				
<b><u>Municipal connection points</u></b>				
8.4.12	Cut into existing sewer manhole for new 110mm pipe not exceeding 4m deep, including making good and all connections necessary	No	1	
<b><u>Testing</u></b>				
8.4.13	Testing soil drainage system		Item	
Carried Forward to Sectional Summary:				R
<b>EXTERNAL WORKS</b>				
<b>SOIL DRAINAGE</b>				
<b>SIST CONSORTIUM</b>				

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>WATER TANK SUPPORTS &amp; DRINKING FOUNTAIN</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>EARTHWORKS</u></b>			
	<b><u>EXCAVATION OTHER THAN BULK</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
8.5.1	Bases	m3	26	
	<b><u>Extra over trench and hole excavation in earth for excavation in</u></b>			
8.5.2	Hard rock	m3	3	
	<b><u>CARTING AWAY</u></b>			
	<b><u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk)</u></b>			
8.5.3	Off site to be located by the contractor	m3	26	
	<b><u>EARTH FILLING, ETC</u></b>			
	Note: All filling whether obtained from the excavations, from stockpiles or by the contractor from an outside source must be selected and approved by the Structural / Civil Engineers			
	<b>Carried forward</b>			
	<b>EXTERNAL WORKS</b>			
	<b>WATER TANKS</b>			
	<b>SIST CONSORTIUM</b>			

	<b>Brought forward</b>			<b>R</b>
	<b><u>Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density</u></b>			
8.5.4	Backfilling to trenches, holes, etc.	m3	10	
	<b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b>			
	<b><u>Keeping excavations free of water</u></b>			
8.5.5	Allow for keeping excavations free of water or mud by hand or machinery		Item	
	<b><u>COMPACTION</u></b>			
	<b><u>Compaction of surfaces</u></b>			
8.5.6	Compaction of ground surfaces 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	21	
	<b><u>TESTS</u></b>			
	<b><u>Prescribed density tests on filling</u></b>			
8.5.7	Modified AASHTO Density test	No	16	
8.5.8	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	16	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide in accordance to SANS 5859</u></b>			
8.5.9	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	21	
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<b>Carried forward</b>			<b>R</b>
	<b>EXTERNAL WORKS</b>			
	<b>WATER TANKS</b>			
	<b>SIST CONSORTIUM</b>			

**Brought forward**

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**10MPa Concrete**

8.5.10	Surface blinding under footings, bases, etc.	m3	1
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**REINFORCED CONCRETE CAST AGAINST/ON FORMWORK**

**25MPa/19mm Concrete**

8.5.11	Surface beds	m3	2
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8.5.12	Bases	m3	14
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**CONCRETE SUNDRIES**

**Finishing top surfaces of concrete with a wood float**

8.5.13	Surface beds, slabs, etc.	m2	21
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**Test blocks**

8.5.14	Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith	Sets	2
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**ROUGH FORMWORK (DEGREE OF ACCURACY III)**

**Rough formwork to sides**

8.5.15	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30
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8.5.16	Bases	m2	25
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**Boxing in smooth formwork to form**

8.5.17	50mm Horizontal chamfer at corner	m	30
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**REINFORCEMENT**

**Mild steel reinforcement to structural concrete work**

8.5.18	10mm Diameter bars	t	1.095
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**Carried forward**

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**EXTERNAL WORKS  
WATER TANKS  
SIST CONSORTIUM**



Brought forward

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## **MASONRY**

### **BRICKWORK IN FOUNDATIONS**

**Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar**

8.5.19	One brick wall	m2	15
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### **BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of NFP Bricks in Class II mortar**

8.5.20	One brick wall	m2	15
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### **BRICKWORK SUNDRIES**

**Bagging of 1:3 cement and sand mixture**

8.5.21	On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric	m2	15
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**Brickwork reinforcement**

8.5.22	150mm Wide reinforcement built in horizontally	m	58
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### **FACE BRICKWORK**

**"Corobrik Firelight Satin" or equal and approved face bricks in stretcher bond with ruled joints and perpend internally and externally**

8.5.23	Extra over brickwork for face brickwork	m2	15
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## **PLUMBING AND DRAINAGE**

### **WATER SUPPLIES AND FIRE SERVICES**

### **TAPS, VALVES, ETC**

Carried forward

R

## **EXTERNAL WORKS**

WATER TANKS

SIST CONSORTIUM

**Brought forward**

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**"Cobra Watertech" or equal and approved**

8.5.24	15mm Rough brass hose bib tap as 'Cobra Watertech' Ref. No. 108-15 or equal and approved including hose union, wall plate elbow, etc. with couplings for copper (LI)	No	19
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**TANKS, ETC**

**Polyethylene water tanks**

8.5.25	2500 Litre low profile circular tank size 2250mm diameter x 1800mm high, with access lid and inlet hole, embedded in pedestal to a minimum of 400mm above ground level and tied down with 2 No. off 4mm galvanised double strap stay wires tied to galvanised mild steel M12 eye bolt of which is to be drilled and fixed to the 4 corners of concrete supporting base (LI)	No	3
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8.5.26	10000 Litre plastic water tank fitted onto and secured to top of elevated steel structure	No	2
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**Elevated Tank Stand**

8.5.27	Manufacture, supply, deliver and erect 6m high galvanised elevated steel tank stand including foundations, formwork, rebars, etc. complete	No	2
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**DRINKING FOUNTAIN**

**Supply and install pre-cast concrete water fountain**

8.5.28	Pre-cast Concrete outdoor floor standing drinking fountain including stainless steel tap.	No	5
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**TESTING**

8.5.29	Allow for testing the whole of the sanitary plumbing and water supply		Item
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**Carried Forward to Sectional Summary:**

R

**EXTERNAL WORKS  
WATER TANKS  
SIST CONSORTIUM**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>FENCING AND GATES</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>STEEL PALISADE FENCE</u></b>			
	<b><u>Steel palisade fencing, gates, etc including prepare and apply one priming coat and two coats high gloss enamel Traffic Green paint using compressor spay gun on metal stays, gates, framing and etc</u></b>			
8.6.1	1500mm High palisade fencing comprising of 40 x40 x 2mm angle iron welded flash with the back of the post 300mm from top of paling and 300mm from bottom of paling (350mm from ground level), 21 palings per panel consist of 30 x 30 x 2mm x 1 500mm High steel angle iron inserted and firmly welded to the bearers at 133mm centre to centre with "Devil Fork" on top and dove tail at the bottom welded to 76 x 76 x 2mm steel tubing posts 2 400mm long/ high with closing pyramid caps on top and M12 anti vandal nuts and bolts and posts set and cast into and including 300 x 300 x 600mm deep concrete base at 3 000mm centres.	m	131	
	<b>Carried forward</b>			
	<b>EXTERNAL WORKS</b>			
	<b>FENCING</b>			
	<b>SIST CONSORTIUM</b>			
			R	

Brought forward			R
8.6.2	1800mm High palisade fencing comprising of 40 x40 x 2mm angle iron welded flash with the back of the post 300mm from top of paling and 300mm from bottom of paling (350mm from ground level), 21 palings per panel consist of 30 x 30 x 2mm x 1 800mm High steel angle iron inserted and firmly welded to the bearers at 133mm centre to centre with "Devil Fork" on top and dove tail at the bottom welded to 76 x 76 x 2mm steel tubing posts 2 400mm long/ high with closing pyramid caps on top and M12 anti vandal nuts and bolts and posts set and cast into and including 300 x 300 x 600mm deep concrete base at 3 000mm centres.	m	590
8.6.3	1,500mm Wide x 1,800mm High pedestrian gate	No	2
8.6.4	5,500mm Wide x 1,800mm High Main vehicular gate	No	1
8.6.5	6,500mm Wide x 1,800mm High truck entry gate	No	1
Carried Forward to Sectional Summary:			R
EXTERNAL WORKS			
FENCING			
SIST CONSORTIUM			

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>SOAK-AWAY (ALL TRADES)</u></b>			
	<b><u>EARTHWORKS</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE, ETC</u></b>			
	<b><u>Site clearance</u></b>			
8.7.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	97	
8.7.2	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m2	97	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
8.7.3	Holes	m3	92	
	<b><u>Extra over bulk excavations in earth for excavation in</u></b>			
8.7.4	Soft rock	m3	9	
8.7.5	Hard rock	m3	9	
	<b><u>Extra over all excavations for carting away</u></b>			
8.7.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	63	
	<b><u>Risk of collapse of excavations</u></b>			
8.7.7	Sides of bulk excavations not exceeding 1,5m deep (LI)	m2	64	
	<b>Carried forward</b>			R
	<b>EXTERNAL WORKS</b>			
	SOAKAWAY			
	SIST CONSORTIUM			

Brought forward

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**EARTH FILLING, ETC**

**Earth filling supplied by the contractor (not compacted)**

8.7.8	650mm Thick layer of 19mm diameter stone filling on ground for soakaways, etc (LI)	m3	63
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8.7.9	300mm Thick layer of insitu material filling in soakaways, etc (LI)	m3	29
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**Keeping excavations free of water**

8.7.10	Allow for keeping excavations free of water other than subterranean water	Item	
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Carried Forward to Sectional Summary:

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**EXTERNAL WORKS**  
**SOAKAWAY**  
**SIST CONSORTIUM**

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

Item No	Description	Quantity	Rate	Amount
	<b><u>SECTION NO. 7</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>CONSERVANCY TANK (ALL TRADES)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see " Specifications of materials and methods to be used - PW 371"			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SITE CLEARANCE, ETC</u></b>			
	<b><u>Site clearance</u></b>			
8.8.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	29	
8.8.2	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m2	29	
	<b><u>BULK EXCAVATION, FILLING, ETC</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
8.8.3	Holes (Tank)	m3	59	
	<b><u>Excavation in earth exceeding 2m but not exceeding 4m deep</u></b>			
8.8.4	Holes (Tank)	m3	19	
	<b><u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod. AASHTO density</u></b>			
8.8.5	Not exceeding 1,5m deep, etc. 300mm away from excavated face (LI)	m2	51	
8.8.6	Exceeding 1,5m and not exceeding 3m deep, etc. 300mm away from excavated face	m2	39	
	<b>Carried forward</b>			R
	<b>EXTERNAL WORKS</b>			
	<b>SEPTIC TANK</b>			
	<b>SIST CONSORTIUM</b>			

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

	<b>Brought forward</b>			R	
	<b><u>Extra over bulk excavations in earth for excavation in</u></b>				
8.8.7	Soft rock	m3	2		
8.8.8	Hard rock	m3	3		
	<b><u>Extra over back excavation in earth for working space for excavation in soft rock</u></b>				
8.8.9	Not exceeding 1,5m deep, etc. 300mm away from excavated face	m2	51		
8.8.10	Exceeding 1,5m and not exceeding 3m deep, etc. 300mm away from excavated face	m2	39		
	<b><u>Extra over back excavation in earth for working space for excavation in hard rock</u></b>				
8.8.11	Not exceeding 1,5m deep, etc. 300mm away from excavated face	m2	51		
8.8.12	Exceeding 1,5m and not exceeding 3m deep, etc. 300mm away from excavated face	m2	39		
	<b><u>Extra over all excavations for carting away</u></b>				
8.8.13	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	78		
	<b><u>Risk of collapse of excavations</u></b>				
8.8.14	Sides of trench and hole excavations not exceeding 1,5m deep (LI)	m2	51		
8.8.15	Sides of trench and hole excavations exceeding 1,5m deep (LI)	m2	39		
	<b><u>Keeping excavations free of water</u></b>				
8.8.16	Keeping excavations free of all water other than subterranean water		Item		
	<b><u>EARTH FILLING, ETC</u></b>				
	<b>Carried forward</b>			R	
	<b>EXTERNAL WORKS</b>				
	<b>SEPTIC TANK</b>				
	<b>SIST CONSORTIUM</b>				



**Brought forward**

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**Filling with material from the excavations  
compacted to a density of at least 95% Mod.  
AASHTO maximum density**

8.8.17	Backfilling to trenches, holes, etc (LI)	m3	78
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**Compaction of surfaces**

8.8.18	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 98% Mod. AASHTO density (LI)	m2	29
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**Prescribed density tests on filling**

8.8.19	"Modified AASHTO Density" test	No	4
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8.8.20	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	4
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**SOIL POISONING**

**Soil insecticide in accordance with SANS 5859**

8.8.21	Under floors etc including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m2	29
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**CONCRETE, FORMWORK AND  
REINFORCEMENT**

**SUPPLEMENTARY PREAMBLES**

**Cost of tests**

The costs of making, storing and testing of concrete test cubes as required under Clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Principal Agent. (Test cubes are measured separately)

**Carried forward**

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**EXTERNAL WORKS  
SEPTIC TANK  
SIST CONSORTIUM**

<b>Brought forward</b>			R
<u><b>Formwork</b></u>			
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".</p>			
<u><b>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b></u>			
<u><b>10MPa Concrete</b></u>			
8.8.22	Surface blinding under footings and bases (LI)	m3	1
<u><b>REINFORCED CONCRETE CAST AGAINST/ON FORMWORK</b></u>			
<u><b>25MPa/19mm Concrete</b></u>			
8.8.23	Tank bases (LI)	m3	9
8.8.24	Slabs including beams and inverted beams (LI)	m3	6
<u><b>TEST BLOCKS</b></u>			
<b>Carried forward</b>			R
<b>EXTERNAL WORKS</b>			
<b>SEPTIC TANK</b>			
<b>SIST CONSORTIUM</b>			

	Brought forward		R
	<b><u>Test blocks</u></b>		
8.8.25	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	4
	<b><u>CONCRETE SUNDRIES</u></b>		
	<b><u>Finishing top surfaces of concrete smooth with a steel trowel</u></b>		
8.8.26	Surface beds, slabs, etc (LI)	m <sup>2</sup>	29
	<b><u>ROUGH FORMWORK</u></b>		
	<b><u>Rough formwork to sides</u></b>		
8.8.27	Edges, risers, ends and reveals not exceeding 300mm high or wide (LI)	m	34
	<b><u>Rough formwork to soffits</u></b>		
8.8.28	Slabs, propped up exceeding 1.5m and not exceeding 3.5m high (LI)	m <sup>2</sup>	29
	<b><u>Rough formwork to form</u></b>		
8.8.29	Opening exceeding 2m and not exceeding 3m girth through not exceeding 300mm slab (LI)	No	2
	<b><u>MOVEMENT JOINTS, ETC.</u></b>		
	<b><u>Slip joints between horizontal concrete and brick surfaces with two layers of 3 ply malthoid</u></b>		
8.8.30	Not exceeding 300mm wide (LI)	m	6
	<b><u>Expansion joints with bitumen impregnated fibreboard between vertical concrete surfaces</u></b>		
8.8.31	13mm Joints not exceeding 300mm high (LI)	m	6
	<b><u>REINFORCEMENT</u></b>		
	<b><u>EXTERNAL WORKS</u></b>		
	SEPTIC TANK		
	SIST CONSORTIUM		
	Carried forward		R

Brought forward

R

**High tensile steel reinforcement to structural concrete work**

8.8.32	10mm Diameter bars (LI)	t	0.072	
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**MASONRY**

**BRICKWORK IN FOUNDATIONS**

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

8.8.33	One and a half brick walls (LI)	m2	22	
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**BRICKWORK SUNDRIES**

**Chip off projections, fill up crevices, cement wash with 1:6 cement and sand slurry and apply two coats "Brixal" or equal and approved bitumen emulsion waterproof coating**

8.8.34	On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around ties and/or brick reinforcing fabric (LI)	m2	22	
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**Galvanised brickwork reinforcement**

8.8.35	150mm Wide reinforcement built in horizontally (LI)	m	126	
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**WATERPROOFING**

**DAMPPROOFING OF WALLS AND FLOORS**

**One layer of 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)**

8.8.36	In walls (LI)	m2	88	
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Carried forward

R

**EXTERNAL WORKS  
SEPTIC TANK  
SIST CONSORTIUM**

	<b>Brought forward</b>			<b>R</b>
	<b><u>One layer Derbigum SP4 or equal and approved waterproofing membrane sealed by means of 'torchfusion' or Coldbond 90 adhesive with 75mm side laps and 100mm end laps, laid under a ten-year guarantee, etc</u></b>			
8.8.37	On walls (LI)	m2	22	
8.8.38	Sealing edges to brickwork or concrete (LI)	m2	34	
	<b><u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u></b>			
8.8.39	Under surface beds (LI)	m2	29	
	<b><u>PLASTERING</u></b>			
	<b><u>SCREEDS</u></b>			
	<b><u>Screeds steel trowelled, on concrete</u></b>			
8.8.40	30mm Thick on floors and landings (LI)	m2	29	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>Cement plaster steel trowelled, on brickwork</u></b>			
8.8.41	On walls (LI)	m2	22	
	<b><u>EXTERNAL PLASTER</u></b>			
	<b><u>Cement plaster steel trowelled, on brickwork</u></b>			
8.8.42	On walls (LI)	m2	22	
	<b><u>Testing</u></b>			
8.8.43	Allow for testing the whole of the Soil Drainage to the satisfaction of the Principal Agent and Local Authorities All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found satisfactory		Item	
	<b>Carried Forward to Sectional Summary:</b>			<b>R</b>
	<b>EXTERNAL WORKS</b>			
	<b>SEPTIC TANK</b>			
	<b>SIST CONSORTIUM</b>			

**MPHIGALALE PRIMARY SCHOOL**  
**WATER, SANITATION AND FENCING**

Bill No	SUMMARY	Page No	Amount
8.1	BULK EARTHWORKS	115	
8.2	OPEN WALKWAYS	120	
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8.4	SOIL DRAINAGE	125	
8.5	WATER TANKS	130	
8.6	FENCING	132	
8.7	SOAKAWAY	134	
8.8	SEPTIC TANK	141	
Carried to Final Summary			R
EXTERNAL WORKS SIST CONSORTIUM			

**MPHIGALALE PRIMARY SCHOOL  
WATER, SANITATION AND FENCING**

<b>Section No</b>		<b>Page No</b>	<b>Amount</b>
<b><u>FINAL SUMMARY</u></b>			
1	PRELIMINARY AND GENERAL	26	
2	ALTERATIONS	28	
3	BLOCK A - GRD4+2UR	55	
4	BLOCK B - SM2+2UR+SFD4	82	
5	BLOCK C - MD2+2UR	109	
6	PROVISIONAL SUMS	110	
7	BOREHOLE INSTALLATION	114	
8	EXTERNAL WORKS	142	
<b>SUB TOTAL (A)</b>			R
<b>ADD: CONTINGENCY @10%</b>			R
<b>SUB-TOTAL (B)</b>			R
<b>VALUE ADDED TAX</b>			R
<b>TOTAL</b>			R
<b>Carried to Form of Tender</b>			R
<b>SIST CONSORTIUM</b>			