

Item No	Description	Quantity	Amount
	<u>SECTION NO. 1</u>		
	<u>BILL NO. 1</u>		
	<u>PRELIMINARIES</u>		
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>		
	<u>NOTES TO PRELIMINARY AND GENERAL</u>		
	<p><u>NOTE : TENDERERS ARE TO PRICE PRELIMINARIES BASED ON THE TERMS, INSTRUCTIONS AND CONDITIONS OF THE CONTRACT AND BILLS OF QUANTITIES INCLUDED HEREIN</u></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>		
	Carried forward	R	
	Bill No. 1 PRELIMINARY AND GENERAL (PROVISIONAL) Prepared by SIST CONSORTIUM		

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

**Bill No. 1
PRELIMINARY AND GENERAL (PROVISIONAL)
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		Brought forward	R	
	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"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part</p> <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	
		Carried forward	R	
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		Brought forward	R	
	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	
	<u>Execution (A15-A23)</u>			
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	
		Carried forward	R	
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[illegible]

		Brought forward	R	
1.1.20	Sectional completion (clause 28)			
	F:..... V:..... T:.....		Item	
	Revision of date of practical completion (clause 29)			
	F:..... V:..... T:.....		Item	
1.1.21	The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)		Item	
1.1.22	Penalty for non-completion (clause 30)			
	F:..... V:..... T:.....		Item	
	<u>Payment (A31 - A35)</u>			
	Interim payment to the contractor (clause 31)			
	F:..... V:..... T:.....		Item	
	Adjustment to the contract value (clause 32)			
	F:..... V:..... T:.....		Item	
1.1.23	Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing		Item	
1.1.24	Recovery of expense and loss (clause 33)			
	F:..... V:..... T:.....		Item	
	Final account and final payment (clause 34)			
	F:..... V:..... T:.....		Item	
		Carried forward	R	
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	Brought forward	R	
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><u>Cancellation (A36-A39)</u></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><u>Dispute (A40)</u></p>	Item	
1.1.30	<p>Dispute Settlement (clause 40)</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried forward	R	
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	Brought forward	R	
	<u>Substitute Provisions (A41)</u>		
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	
	<u>THE SCHEDULE</u>		
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	
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>		
	42.1.1 Employer: THE MVULA TRUST		
	42.1.2 Principal Agent: SIST CONSORTIUM		
	<u>42.2 CONTRACT DETAILS</u>		
	42.2.1 Works Description: Construction of sanitation facilities		
	42.2.2 Site Description: as per the information on the tender data		
	42.2.3 Work or installations by direct contractors: N/A		
	42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only <i>Yes</i>		
	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		
	Carried forward	R	
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	Brought forward	R
42.2.7	For the works as a whole . Intended date of practical completion and the penalty per calendar day Intended Date of Practical Completion: <i>As per the information provided in the Tender Data</i> Penalty Amount: <i>The penalty per calendar day shall be 7.5 cents per R100 of the Tendered Amount (inclusive of value added tax)</i> 42.2.8 For the works in sections : Intended date of practical completion and the penalty per calendar day <u>42.3 INSURANCES</u> 1.1.35 42.3.1 Contract works insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R Contract Amount + 10.00 % With a deductible of - to be determined by the contractor</i> 42.3.2 Supplementary insurance is required: <i>No</i> 42.3.3 Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R 5 000 000-00 With a deductible of - to be determined by the contractor</i>	Item
	Carried forward	R
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	Brought forward	R	
	<u>42.4 DOCUMENTS</u>		
	42.4.1 Waivers of contractors lien or right of continuing possession is required Yes		
	42.4.2 Number of construction document copies to be supplied to the contractor free of charge:		
	3 Number of		
	42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: "Standard System of Measuring Builders' Work		
	42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within		
	5 working days		
	<i>The priced bills of quantities must be handed in with the tender</i>		
	42.4.5 JBCC Engineering General Conditions are to be included in the contract documents :		
	<i>No</i>		
	42.4.6 The contract value is to be adjusted using escalation adjustment indices		
	<i>No</i>		
	Where JBCC CPAP 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		
	<u>SECTION B: PRELIMINARIES</u>		
	<u>Definitions and interpretation (B1)</u>		
1.1.36	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item	
	<u>Documents (B2)</u>		
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	
	Carried forward	R	
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		Brought forward	R	
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	
	<u>The site (B3)</u>			
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	
		Carried forward	R	
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	Brought forward	R
1.1.48 Previous work - defects (B3.6)		
F:..... V:..... T:.....		Item
1.1.49 Services - known (B3.7)		
F:..... V:..... T:.....		Item
1.1.50 Services - unknown (B3.8)		
F:..... V:..... T:.....		Item
1.1.51 Protection of trees etc (B3.9)		
F:..... V:..... T:.....		Item
1.1.52 Articles of value (B3.10)		
F:..... V:..... T:.....		Item
<u>Management of contract (B4)</u>		
1.1.53 Inspection of adjoining properties etc (B3.11)		
F:..... V:..... T:.....		Item
1.1.54 Management of the works (B4.1)		
F:..... V:..... T:.....		Item
1.1.55 Programme for the works (B4.2)		
F:..... V:..... T:.....		Item
1.1.56 Progress meetings (B4.3)		
F:..... V:..... T:.....		Item
1.1.57 Technical meetings (B4.4)		
F:..... V:..... T:.....		Item
1.1.58 Labour and Plant records (B4.5)		
F:..... V:..... T:.....		Item
	Carried forward	R
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	Brought forward	R	
	<u>Samples, shop drawings and manufacturer's instructions (B5)</u>		
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	
	<u>Temporary works and plant (B6)</u>		
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	
	Carried forward	R	
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		Brought forward	R	
	<u>Temporary services (B7)</u>			
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	
	<u>Prime cost amounts (B8)</u>			
1.1.74	Responsibility for prime cost amounts (B8.1)			
	F:..... V:..... T:.....		Item	
	<u>Attendance on N/S Subcontractors (B9)</u>			
1.1.75	General attendance (B9.1)			
	F:..... V:..... T:.....			
1.1.76	Special attendance (B9.2)			
	F:..... V:..... T:.....			
		Carried forward	R	
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		Brought forward	R	
1.1.77	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....			
	<u>Financial aspects (B10)</u>			
1.1.78	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....		Item	
1.1.79	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Option [B] shall apply		
1.1.80	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Option [B] shall apply	Item	
1.1.81	Payment certificate cash flow (B10.4) F:..... V:..... T:.....		Item	
	<u>General (B11)</u>			
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	
		Carried forward	R	
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		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	
	<u>Schedule of variables (B12)</u>			
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	
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	Brought forward	R	
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)			
	Carried forward	R	
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Brought forward		R
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
<u>Post tender information (B12.2)</u>		
12.2.1 Payment of preliminaries Alternative selected: B		
12.2.2 Adjustment of preliminaries Alternative selected: A		
12.2.3 Additional agreed preliminaries items		N/A
<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included		
<u>Site instructions</u>		
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
Carried forward		R
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		Brought forward	R	
1.1.94	Black economic empowerment and training F:..... V:..... T:.....		Item	
1.1.95	Proprietary branded products F:..... V:..... T:.....		Item	
	<u>Testing of flat roof waterproofing for watertightness</u>			
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 principal agent , 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	
		Carried forward	R	
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	Brought forward	R	
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	
	Carried forward	R	
Bill No. 1 PRELIMINARY AND GENERAL (PROVISIONAL) Prepared by SIST CONSORTIUM			

	Brought forward	R	
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	
	Carried forward	R	
Bill No. 1 PRELIMINARY AND GENERAL (PROVISIONAL) Prepared by SIST CONSORTIUM			

	Brought forward	R	
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	
	Carried forward	R	
	<p>Bill No. 1 PRELIMINARY AND GENERAL (PROVISIONAL) Prepared by SIST CONSORTIUM</p>		

		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	
		Carried forward	R	
	Bill No. 1			
	PRELIMINARY AND GENERAL (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

		Brought forward	R	
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	
		Carried forward	R	
	Bill No. 1			
	PRELIMINARY AND GENERAL (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

		Brought forward	R	
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	
		Carried forward	R	
	Bill No. 1			
	PRELIMINARY AND GENERAL (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

		Brought forward	R	
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	<u>SUMMARY OF CATEGORIES</u> Category : Fixed R..... Category : Value R..... Category : Time R.....		Item	
		Carried to Final Summary	R	
	Bill No. 1 PRELIMINARY AND GENERAL (PROVISIONAL) Prepared by SIST CONSORTIUM			

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p>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:</p> <p>A - Girls Ablutions</p> <p>B - Boys Ablutions</p> <p>C - Staff Ablutions</p> <p>D - External Works</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>Taking Out and Removal of Asbestos</u></p> <p>Taking out and removing asbestos roof, gutters, underlay, fibreglass, downpipes, etc. must be in strict accordance with health and occupational safety regulations and a specialist firm must be contracted to dispose of the material</p>			
	Carried forward		R	
	<p>Bill No. 1</p> <p>ALTERATIONS (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>			

Brought forward	R
<p><u>Demolitions</u></p> <p>All demolition work is to be carried out in accordance with the local by-laws.</p> <p>All demolition is to be carried out in strict accordance with the instructions and to the satisfaction of the Principal Agent.</p> <p><u>General</u></p> <p>Descriptions of taking out shall be deemed to include carting away from site to a dump ground to be found by the contractor</p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p> <p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p>	
Carried forward	R
<p>Bill No. 1 ALTERATIONS (PROVISIONAL) Prepared by SIST CONSORTIUM</p>	

<p align="center">Brought forward</p>		R
<p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> <p>The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing</p> <p>The Contractor will be held responsible for any damage to persons and property and for the safety of the structures and he is to allow for protecting and indemnifying persons using the existing buildings from injury by virtue of the building operations, including providing necessary barriers, signs, etc.</p>		
<p><u>DEMOLITIONS ETC</u></p>		
<p>Single storey building with pitched roof 6.00 x 3.60m on plan and 3m 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, backfilling on completion and levelling site</p> <p align="center">A : 0 B : 0 C : 0 D : 19</p>	m2	19
<p>Single storey building with pitched roof 4.29 x 1.78m on plan and 3m 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, backfilling on completion and levelling site</p> <p align="center">A : 0 B : 0 C : 0 D : 8</p>	m2	8
<p><u>REMOVAL OF EXISTING WORK</u></p>		
<p align="center">Carried forward</p>		R
<p>Bill No. 1 ALTERATIONS (PROVISIONAL) Prepared by SIST CONSORTIUM</p>		

				Brought forward			R
<u>Taking out/off and removing sundry metalwork</u>							
2.1.3	Galvanised steel palisade fence 1.8m high comprising of vertical steel pales secured to horizontal rails to form panels that are mounted to steel posts including concrete bases			m	585		
	A : 0	B : 0	C : 0	D : 585			
<p style="text-align: right;">Carried Forward to Sectional Summary:</p> <p>Bill No. 1 ALTERATIONS (PROVISIONAL) Prepared by SIST CONSORTIUM</p>							
							R

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO 2</u>			
	<u>BULK EARTHWORKS</u>			
	<u>Preambles</u>			
	<u>Nature of ground</u>			
	Descriptions of excavations in "earth" shall be deemed to include all ground conditions as defined in the Geotech investigation to be reviewed and taken into account when pricing the items below.			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.			
	----- -----			
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Extra over all excavations for</u>			
2.2.1	Cut to spoil on site to a dumping site to be located by the contractor A : 0 B : 0 C : 0 D : 87	m3	87	
2.2.2	Cut to stockpile for future backfill to create platform levels, tenderers are advised to sequence construction operations accordingly A : 0 B : 0 C : 0 D : 30	m3	30	
	<u>Keeping excavations free of water</u>			
2.2.3	Keeping excavations free of all water other than subterranean water	Item		
	Carried Forward to Sectional Summary:		R	
	Bill No. 2			
	BULK EARTHWORKS (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

Item No	Description	Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Classification of materials</u></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>If the contractor considers that any of the excavations are more difficult in nature than excavations in "earth", he shall immediately notify the Engineer and quantity surveyor in writing. If the contractor fails to make such notification, the excavations shall be deemed to be in "earth" and shall be measured, and valued, accordingly.</p> <p>The contractor may, with the prior written permission of the Engineer and in terms of the conditions of contract, use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the materials excavated.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Keeping excavations free of water</u></p> <p>The contractor shall protect the excavations from the ingress of water. Any water which occurs in the excavations, whether as a result of seepage, rain, or other causes, shall immediately be removed by baling, pumping, or other approved means.</p>				
	Carried forward			R	
	<p>Bill No. 3</p> <p>EARTHWORKS (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>				

Brought forward				R
<u>Formwork</u>				
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
<u>Spesification</u>				
Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.				
<u>SITE CLEARANCE, ETC</u>				
<u>Site clearance</u>				
2.3.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. A : 26 B : 59 C : 53 D : 0	m2	138	
2.3.2	Stripping average 150mm thick layer of top soil and stockpiling on site A : 26 B : 59 C : 53 D : 0	m2	138	
<u>EXCAVATION OTHER THAN BULK</u>				
<u>Excavate in earth not exceeding 2m deep</u>				
2.3.3	To reduce levels under floors A : 8 B : 17 C : 15 D : 0	m3	40	
<u>Excavation in earth not exceeding 2m deep</u>				
2.3.4	Trenches A : 13 B : 22 C : 22 D : 0	m3	57	
2.3.5	Holes (latrine pit) A : 19 B : 18 C : 0 D : 0	m3	37	
Carried forward				R
Bill No. 3 EARTHWORKS (PROVISIONAL) Prepared by SIST CONSORTIUM				

				Brought forward				R
2.3.6	Bases (LI)	A : 0	B : 1	C : 0	D : 0	m3	1	
<u>Excavation in earth exceeding 2m but not exceeding 4m deep</u>								
2.3.7	Holes (latrine pit)	A : 2	B : 2	C : 0	D : 0	m3	3	
<u>Extra over trench and hole excavations in earth for excavation in</u>								
2.3.8	Soft rock	A : 3	B : 4	C : 2	D : 0	m3	10	
2.3.9	Hard rock	A : 7	B : 9	C : 5	D : 0	m3	22	
<u>WORKING SPACE</u>								
<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>								
2.3.10	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	A : 45	B : 78	C : 74	D : 0	m2	196	
<u>Extra over back excavation in earth for working space for excavation in soft rock</u>								
2.3.11	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	A : 1	B : 2	C : 2	D : 0	m2	5	
<u>Extra over back excavation in earth for working space for excavation in hard rock</u>								
2.3.12	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	A : 9	B : 15	C : 15	D : 0	m2	39	
<u>CARTING AWAY</u>								
				Carried forward				R
Bill No. 3 EARTHWORKS (PROVISIONAL) Prepared by SIST CONSORTIUM								

Brought forward

R

Extra over all excavations for carting away

2.3.13	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	74
	A : 28 B : 33 C : 13 D : 0		

RISK OF COLLAPSE

Risk of collapse of excavations

2.3.14	Sides of trench and hole excavations not exceeding 1,5m deep	m2	259
	A : 78 B : 107 C : 74 D : 0		
2.3.15	Sides of trench and hole excavations exceeding 1,5m deep	m2	10
	A : 3 B : 7 C : 0 D : 0		

KEEPING EXCAVATIONS FREE OF WATER

Keeping excavations free of water

2.3.16	Keeping excavations free of all water other than subterranean water	Item	
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FILLING, ETC:

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density

2.3.17	Backfilling to trenches, holes, etc	m3	25
	A : 6 B : 10 C : 9 D : 0		

Layerworks

2.3.18	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	13
	A : 3 B : 6 C : 5 D : 0		
2.3.19	G2 Layer	m3	13
	A : 3 B : 6 C : 5 D : 0		

COMPACTION

Carried forward

R

**Bill No. 3
EARTHWORKS (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Brought forward				R
<u>Compaction of surfaces</u>				
2.3.20	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 A : 30 B : 50 C : 34 D : 0	m2	113	
<u>TESTS</u>				
<u>Prescribed density tests on filling</u>				
2.3.21	"Modified AASHTO Density" test on request by the engineer A : 2 B : 2 C : 0 D : 0	No	4	
2.3.22	"Field Density" test including "Optimum Moisture Content" (four readings per test) A : 2 B : 2 C : 0 D : 0	No	4	
<u>SOIL POISONING</u>				
<u>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</u>				
2.3.23	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 A : 30 B : 50 C : 34 D : 0	m2	113	
2.3.24	To bottoms and sides of trenches etc A : 107 B : 150 C : 97 D : 0	m2	354	
Carried Forward to Sectional Summary:				R
Bill No. 3 EARTHWORKS (PROVISIONAL) Prepared by SIST CONSORTIUM				

Item No	Description	Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p><u>Concrete</u></p> <p>Where concrete is described as "cast against excavated surfaces" the Contractor is to allow in his rates for additional concrete to make up this tolerance/overbreak. The final net volumes of concrete shall be measurable from drawings only and no claims with regard to additional concrete to compensate for tolerances shall be entertained</p> <p>Contractors are to include for any supplementary materials, placing, pumping, vibration or waste on placed quantities etc.. that are required in order to provide for a fully installed rate. (Net placed volumes are measured in the bills of quantities)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>				
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT (PR Prepared by SIST CONSORTIUM</p>			R	

	Brought forward			R	
	<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>Formworks to soffits of slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to sides of footings, beams, column bases, columns, etc., in foundations is to be finally measured and paid for only where specifically instructed by the appointed Consultant Engineer <u>in writing</u></p> <p><u>Specification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p>				
	<p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15MPa/19mm concrete</u></p>				
2.4.1	<p>Surface blinding under footings and bases</p> <p style="text-align: center;">A : 1 B : 2 C : 1 D : 0</p>	m3	4		
	<p><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></p> <p><u>25MPa/19mm concrete</u></p>				
2.4.2	<p>Strip Footings</p> <p style="text-align: center;">A : 4 B : 7 C : 7 D : 0</p>	m3	18		
2.4.3	<p>Bases</p> <p style="text-align: center;">A : 0.0 B : 0.3 C : 0.0 D : 0.0</p>	m3	0.3		
2.4.4	<p>Surface beds</p> <p style="text-align: center;">A : 3 B : 6 C : 5 D : 0</p>	m3	13		
2.4.5	<p>Pit base</p> <p style="text-align: center;">A : 4 B : 4 C : 0 D : 0</p>	m3	7		
	Carried forward			R	
	<p>Bill No. 4</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT (PR</p> <p>Prepared by SIST CONSORTIUM</p>				

	Brought forward			R	
2.4.6	Filling to cavity of hollow wall. A : 2 B : 2 C : 0 D : 0 <u>30MPa/19mm concrete</u>	m3	3		
2.4.7	Slabs including beams and inverted beams A : 5 B : 5 C : 0 D : 0 <u>CONCRETE SUNDRIES</u> <u>Test Blocks</u>	m3	10		
2.4.8	Making and testing 150 x 150 x 150mm concrete strength test cube A : 0 B : 2 C : 0 D : 0 <u>Finishing top surfaces of concrete smooth with a power float</u>	No	2		
2.4.9	Surface beds, slabs, etc A : 13 B : 12 C : 0 D : 0 <u>Finishing top surfaces of concrete smooth with a wood float finish</u>	m2	24		
2.4.10	Surface beds, slabs, etc A : 30 B : 50 C : 34 D : 0 <u>FORMWORK</u> <u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u> <u>Rough formwork to sides</u>	m2	114		
2.4.11	Bases A : 4 B : 6 C : 0 D : 0	m2	10		
2.4.12	Strip footings not exceeding 300mm high or wide A : 40 B : 66 C : 66 D : 0 <u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>	m	172		
	Carried forward			R	
Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT (PR Prepared by SIST CONSORTIUM					

Brought forward				R
<u>Rough formwork to sides</u>				
2.4.13	Edges, risers, ends and reveals not exceeding 300mm high or wide A : 14 B : 14 C : 0 D : 0	m	29	
<u>Rough formwork to soffits</u>				
2.4.14	Slabs not exceeding 250mm thick propped up not exceeding 3,5m high A : 26 B : 24 C : 0 D : 0	m2	49	
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Smooth formwork to sides</u>				
2.4.15	Walls with total height not exceeding 3.5m above bearing level A : 0 B : 30 C : 0 D : 0	m2	30	
<u>MOVEMENT JOINTS</u>				
<u>Expansion joints with polyethylene joint former "Jointex" between vertical concrete surfaces, including approved sealant all to Structural Engineer's approval</u>				
2.4.16	15mm Joints not exceeding 300mm wide A : 10 B : 10 C : 12 D : 0	m	32	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>High tensile & Mild steel reinforcement to structural concrete work</u>				
2.4.17	Various Diameter Bars A : 1.19 B : 1.44 C : 0.69 D : 0.00	t	3.32	
<u>Fabric reinforcement</u>				
2.4.18	Type 193 fabric reinforcement laid in surface beds, bases etc. A : 17 B : 38 C : 34 D : 0	m2	89	
Carried Forward to Sectional Summary:				R
Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT (PR Prepared by SIST CONSORTIUM				

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>PRECAST CONCRETE (PROVISIONAL)</u></p> <p><u>Prestressed fabricated concrete lintels including temporary "Turning piece" supports</u></p>			
2.5.1	<p>250 x 150mm Lintels in lengths exceeding 3 and not exceeding 4.5m long</p> <p>A : 4 B : 5 C : 0 D : 0</p>	m	9	
	<p>Carried Forward to Sectional Summary:</p> <p>Bill No. 5</p> <p>PRECAST CONCRETE (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>		R	

Item No	Description	Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>MASONRY (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.</p> <p><u>Specification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>BLOCKWORK</u></p>				
	Carried forward			R	
	<p>Bill No. 6</p> <p>MASONRY (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>				

Brought forward				R	
<u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength as indicated in item descriptions <u>Blockwork</u> Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"					
<u>FOUNDATIONS</u>					
<u>BRICKWORK</u>					
<u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u>					
2.6.1	Piers in foundations A : 0.0 B : 0.2 C : 0.0 D : 0.0	m3	0.2		
2.6.2	One brick wall A : 43 B : 50 C : 20 D : 0	m2	113		
<u>SUPERSTRUCTURE</u>					
<u>BRICKWORK</u>					
<u>Brickwork of NFP clay bricks in class II mortar</u>					
2.6.3	Piers A : 0 B : 1 C : 0 D : 0	m3	1		
2.6.4	Half brick walls A : 0 B : 33 C : 0 D : 0	m2	33		
2.6.5	Half brick wall in beamfilling A : 1 B : 7 C : 6 D : 0	m2	13		
2.6.6	One brick walls formed from two 90mm skins including wall ties A : 64 B : 107 C : 107 D : 0	m2	278		
<u>BRICKWORK SUNDRIES</u>					
Carried forward				R	
Bill No. 6 MASONRY (PROVISIONAL) Prepared by SIST CONSORTIUM					

Brought forward

R

Bagging of 1:3 cement and sand mixture

2.6.7	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	372
	A : 94 B : 171 C : 107 D : 0		

Slip joints

2.6.8	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	87
	A : 18 B : 39 C : 30 D : 0		

Brickwork reinforcement

2.6.9	75mm Wide reinforcement built in horizontally	m	438
	A : 200 B : 238 C : 0 D : 0		
2.6.10	150mm Wide reinforcement built in horizontally	m	891
	A : 204 B : 350 C : 337 D : 0		

Prestressed fabricated concrete lintels including temporary "Turning piece" supports

2.6.11	110 x 75mm Lintels in lengths not exceeding 3m long	m	52
	A : 10 B : 19 C : 22 D : 0		

Turning pieces

2.6.12	230mm Wide turning piece to lintels, etc.	m	33
	A : 5 B : 17 C : 11 D : 0		

Galvanised wire ties etc

2.6.13	30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber	No	42
	A : 7 B : 20 C : 15 D : 0		

Air bricks etc

2.6.14	229 x 152mm Terra-cotta vermin proof air brick	No	12
	A : 4 B : 4 C : 4 D : 0		

FACE BRICKWORK

Carried forward

R

Bill No. 6
MASONRY (PROVISIONAL)
Prepared by SIST CONSORTIUM

Brought forward

R

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

2.6.15	Extra over brickwork for face brickwork (LI) A : 39 B : 140 C : 114 D : 0	m2	292
2.6.16	Extra over brickwork for brick-on-edge header course lintel A : 5 B : 17 C : 11 D : 0	m	33
2.6.17	Extra over brickwork for face brick piers A : 0 B : 1 C : 0 D : 0	m3	1

WINDOW CILLS

Brick on Edge Cills

2.6.18	200mm Brick on edge cill laid on class II mortar including brickgrip DPC, etc. set sloping and slightly projecting A : 5 B : 17 C : 11 D : 0	m	33
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**"NUTEC" OR EQUAL AND APPROVED FIBRE-
CEMENT WINDOW SILLS**

**Natural grey sills in single lengths bedded in class I
mortar including metal fixing lugs etc**

2.6.19	20 x 200mm Wide sills set flat and slightly projecting A : 2 B : 8 C : 6 D : 0	m	16
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Carried Forward to Sectional Summary:

R

**Bill No. 6
MASONRY (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Item No	Description	Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>WATERPROOFING (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>GENERAL</u></p> <p>PREPARATION : All surfaces to receive waterproofing are to be thoroughly cleaned down to remove grease spots, concrete laitance, etc., wire brushed and free from dust and loose material and thoroughly dry before commencement of any waterproofing.</p> <p>SPECIALIST WATERPROOFER : The waterproofer shall apply the waterproofing and secondary materials in accordance with application techniques which are approved by the manufacturer of the waterproofing.</p> <p><u>MATERIALS</u></p> <p>GENERAL : All waterproofing to be layed in accordance with SABS 021-1973 "The Waterproofing of Buildings".</p> <p>BITUMEN : Bitumen primer is to be spread at a rate of 0,3 litres per m² and allowed to dry before the waterproof sheeting is laid.</p> <p>WATERPROOF SHEETING : Tenderers must allow for the design, supply and installation of all waterproofing for areas included . Tenderers are to include for the preparation of the substrate in accordance with manufacturers specifications.</p> <p>Proprietary waterproofing specifications available to tenderers include, but is not limited to, Derbigum, Index, Bituthene. Any proposed specification, which must have a proven track record, shall be submitted to the Principal Agent for comment and record purposes. The sub-contractor shall be an approved applicator of the chosen system/specification. The manufacturer is required to do regular inspections and be present at all flood and drench tests."</p>				
	Carried forward			R	
	<p>Bill No. 7</p> <p>WATERPROOFING (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>				

Brought forward				R	
<u>PROTECTION</u>					
All necessary precautions are to be taken for the protection of completed work.					
<u>PRICES</u>					
Prices are to include for all preparation of surfaces to receive waterproofing, preparation of surfaces between layers and for cleaning off on completion.					
Prices are to include for lapping and sealing, etc. and all cutting and waste.					
<u>WATERPROOFING GUARANTEE</u>					
GUARANTEE : The Contractor shall furnish a 10 year waterproofing guarantee for all the waterproofing including flashings, outlets and other details installed.					
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>					
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>					
2.7.1	In walls, in cavities, in lintels, under copings, under sills, etc. A : 64 B : 141 C : 107 D : 0	m2	312		
<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>					
2.7.2	Under surface beds including turn ups A : 17 B : 38 C : 34 D : 0	m2	89		
<u>Two coats "ABE Brixéal" or equal and approved bitumen emulsion waterproof coating</u>					
2.7.3	On brick walls A : 41 B : 127 C : 82 D : 0	m2	250		
<u>JOINT SEALANTS ETC</u>					
Carried forward				R	
Bill No. 7 WATERPROOFING (PROVISIONAL) Prepared by SIST CONSORTIUM					

	Brought forward			R
2.7.4	<p><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></p> <p>13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary</p> <p>A : 3 B : 8 C : 7 D : 0</p>	m	18	
<p style="text-align: right;">Carried Forward to Sectional Summary:</p> <p>Bill No. 7 WATERPROOFING (PROVISIONAL) Prepared by SIST CONSORTIUM</p>				R

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>ROOF COVERINGS, ETC.(PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Corrugated metal sheeting and accessories</u>			
	Roof sheeting systems are to be manufactured in strict accordance with the supplier's specifications			
	Fixing of all roof sheeting is to be in accordance with the manufacturer's approved instruction book			
	The manufacturer shall comply with ISO9002 Quality Management System			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.8mm Thick galvanized Z275 steel of corrugated 10.5 profile chromadek roof sheeting, chromadek finish to one side in single lengths fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions</u>			
2.8.1	Roof covering with pitch not exceeding 10 degrees A : 18 B : 68 C : 39 D : 0	m2	125	
2.8.2	Standard galvanised ridge capping (550mm girth) screwed through sheeting to purlins (LI) A : 16 B : 10 C : 0 D : 0	m	26	
2.8.3	Sondor IBR pattern polyclosures to underside of ridge capping A : 16 B : 10 C : 9 D : 0	m	35	
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Sisalation FR430" or equal and approved Heavy Industrial Grade Aluminum Foil based insulation</u>			
2.8.4	Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires A : 18 B : 68 C : 39 D : 0	m2	125	
	Carried Forward to Sectional Summary:		R	
	Bill No. 8			
	ROOF COVERINGS (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>(PROVISIONAL)</u></p> <p><u>PREFABRICATED TIMBER ROOF TRUSSES, ETC</u></p> <p><u>NOTE:</u></p> <p>Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members).</p> <p>The following is applicable in respect of roof trusses:</p> <p>Trusses are at maximum 1200mm centres. Roof covering is IBR profiled metal sheeting colour one side on 50 x 76mm purlins. Ceilings are nailed gypsum plasterboard on brandering.</p> <p>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences</p> <p><u>Design and supply plate nailed timber roof trusses</u></p>			
2.9.1	<p>Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 18m² (on flat floor area inclusive of overhangs)</p> <p>- Girls Ablutions</p> <p style="text-align: center;">A : 1 B : 0 C : 0 D : 0</p>	No	1	
	Carried forward		R	
	<p>Bill No. 9</p> <p>CARPENTRY AND JOINERY(PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>			

	Brought forward			R
2.9.2	Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 49m2 (on flat floor area inclusive of overhangs) - Boys Ablutions A : 0 B : 1 C : 0 D : 0	No	1	
2.9.3	Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size 39m2 (on flat floor area inclusive of overhangs) Staff Ablutions A : 0 B : 0 C : 1 D : 0	No	1	
	<u>Truss certificates</u>			
2.9.4	Allowance for the issue of TR1 and TR2 certificates after completion of entire roof installation, signed by a competent person A : 1 B : 1 C : 1 D : 0	No	3	
	<u>Wrought softwood</u>			
2.9.5	38 x 114mm Wall plates A : 31 B : 21 C : 18 D : 0	m	70	
2.9.6	76 x 50mm Purlins A : 145 B : 66 C : 48 D : 0	m	259	
2.9.7	76 x 76mm Splayed gutter purlins A : 7 B : 21 C : 16 D : 0	m	44	
2.9.8	38 x 114mm Timber backing board fixed onto rafter for fascia boards A : 11 B : 41 C : 26 D : 0	m	78	
2.9.9	50 x 330mm Saligna Glulam laminated timber beam fixed above mild steel post to support roof trusses and welded to steel base plate at bottom. A : 7 B : 21 C : 16 D : 0	m	44	
	Carried forward			R
	Bill No. 9 CARPENTRY AND JOINERY(PROVISIONAL) Prepared by SIST CONSORTIUM			

Brought forward

R

EAVES, VERGES, ETC.

Medium density fibre reinforced cement boards to comply with SANS 10400 Part L

2.9.10	12mm x 300mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers	m	44
	A : 7 B : 21 C : 16 D : 0		

2.9.11	12mm x 300mm Barge boards including H-profile jointing strips	m	34
	A : 4 B : 20 C : 10 D : 0		

SKIRTINGS

Wrought meranti

2.9.12	16 x 100mm High skirtings including quadrant bead, plugged	m	70
	A : 18 B : 18 C : 34 D : 0		

DOORS, ETC.

"Saligna Blanco" or equal and approved double sided framed, braced and ledged hardwood doors including saligna weather bar at bottom (to receive varnish, measured elsewhere), hung to steel frames

2.9.13	44mm Thick door size 800 x 2032mm High	No	7
	A : 1 B : 3 C : 3 D : 0		

2.9.14	44mm Thick door size 813 x 2032mm High	No	3
	A : 1 B : 2 C : 0 D : 0		

2.9.15	44mm Thick door size 1000 x 2032mm high - Disabled door	No	2
	A : 1 B : 1 C : 0 D : 0		

Carried Forward to Sectional Summary:

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Bill No. 9
CARPENTRY AND JOINERY(PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>Note: All ironmongery shall be for heavy duty use and must be in anodized aluminium or stainless steel</u>			
	<u>"Union/Assa Abloy" or equal and approved</u>			
2.10.1	"8352-100FLSS" 100 x 75 x 3mm Stainless steel ball bearing butt hinge A : 9 B : 18 C : 9 D : 0	No	36	
	<u>LOCKS</u>			
	<u>"Union" or equal and approved</u>			
2.10.2	"21313-76" Four lever mortice lockset with stainless steel strike plate A : 3 B : 6 C : 3 D : 0	No	12	
	<u>HANDLES</u>			
	<u>"Union" or equal and approved</u>			
2.10.3	"SSSD66L/R-24" Dove pull handle with 152 x 152mm Backplate screwed onto door panel A : 3.0 B : 6.0 C : 3.0 D : 0.0	Pairs	12.0	
	<u>SUNDRIES</u>			
	<u>"Union" or equal and approved</u>			
2.10.4	"87001SS" Brushed stainless steel floor door stop with rubber surround A : 3 B : 6 C : 3 D : 0	No	12	
	<u>BATHROOM FITTINGS</u>			
2.10.5	"Bidvest Steiner" Height: 310mm Depth: 105 mm Width: 160 mm Liquid Soap Dispenser Classic White Range A : 3 B : 3 C : 4 D : 0	No	10	
	Carried forward		R	
	Bill No. 10			
	IRONMONGERY (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

Brought forward

R

2.10.6	"Bidvest Steiner" Height: 334mm Depth: 184mm Width: 286mm Lockable Paper Towel Cabinet Compact Manual Classic White Range	No	8
	A : 2 B : 3 C : 3 D : 0		
2.10.7	"Steiner Hygiene" or equal and similar approved 140 x 125 x 275mm lockable two tier tissue roll holder colour: Stainless steel	No	10
	A : 2 B : 4 C : 4 D : 0		
2.10.8	RAILMAN Dogleg rail with two flanges (Ref DL2), plugged and screwed to wall with concealed fixings.	No	2
	A : 1 B : 0 C : 1 D : 0		
2.10.9	RAILMAN Cistern rail for Pearl (Ref SR2A), plugged and screwed to wall with concealed fixings.	No	2
	A : 1 B : 0 C : 1 D : 0		
2.10.10	"Bidvest Steiner" Height: 522mm Depth: 160mm Width: 365mm Wall mounted Bin. Stainless Steel Range	No	8
	A : 2 B : 3 C : 3 D : 0		
2.10.11	"Bidvest Steiner" Capacity: 20 litres Height: 600 mm Depth: 125mm Width: 420 mm She Bin Stainless Steel Range	No	5
	A : 2 B : 0 C : 3 D : 0		
2.10.12	"Bidvest Steiner" Height: 385 mm Depth: 140 mm Width: 135 mm metallic lockable Toilet 3 Roll Holder from Classic White Range. Durable and vandal proof with Anti-theft bracket available	No	8
	A : 2 B : 3 C : 3 D : 0		

Carried Forward to Sectional Summary:

R

Bill No. 10
IRONMONGERY (PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 11</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>WELDED GALVANISED STEEL SCREENS, GATES, ETC.</u>			
	<u>Screens and gates</u>			
2.11.1	Single gate size 1000 x 2125mm 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 MAQ.B01_wd.105 Rev A A : 1 B : 1 C : 0 D : 0	No	2	
2.11.2	Single gate size 900 x 2100mm 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) A : 1 B : 2 C : 0 D : 0	No	3	
	<u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated pressed steel door frames suitable for one brick walls</u>			
2.11.3	Frame for door type (1) 813 x 2032mm high A : 1 B : 2 C : 0 D : 0	No	3	
2.11.4	Frame for door type (3) 1000 x 2032mm high A : 1 B : 1 C : 0 D : 0	No	2	
	Carried forward		R	
	Bill No. 11			
	METALWORK (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

Brought forward

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**1,6mm Double rebated pressed steel door frames
suitable for half brick walls**

2.11.5	Frame for door type (2) 800 x 2032mm high	No	7
	A : 1 B : 3 C : 3 D : 0		

GALVANISED STEEL WINDOWS, DOORS, ETC

**Standard galvanised mild steel windows with
galvanised mild steel burglar bars to fixed panes
and opening sections (burglar bars to be factory
fitted to the window frames prior to galvanising),
including all window ironmongery in accordance
with the Architect's window schedules (glazing
elsewhere measured)**

2.11.6	Window size 533 x 654mm high	No	15
	A : 2 B : 8 C : 5 D : 0		

2.11.7	Window size 1022 x 654mm high	No	8
	A : 1 B : 4 C : 3 D : 0		

Carried Forward to Sectional Summary:

R

Bill No. 11
METALWORK (PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 12</u>				
	<u>PLASTERING (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>GENERAL</u>				
	V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate.				
	<u>SCREEDS</u>				
	<u>Screeds steel trowelled on concrete</u>				
2.12.1	30mm Thick on floors A : 30 B : 50 C : 34 D : 0	m2	114		
	<u>GRANOLITHIC</u>				
	<u>Untinted granolithic, on concrete</u>				
2.12.2	35mm Thick on floors and landings A : 4 B : 8 C : 4 D : 0	m2	16		
2.12.3	Skirtings 100mm high A : 8 B : 16 C : 8 D : 0	m	33		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork, blockwork or concrete finished with a steel trowel</u>				
2.12.4	On walls and brick piers A : 90 B : 141 C : 101 D : 0	m2	332		
2.12.5	On narrow widths A : 2 B : 7 C : 5 D : 0	m2	14		
	Carried Forward to Sectional Summary:				
	Bill No. 12				
	PLASTERING (PROVISIONAL)				
	Prepared by SIST CONSORTIUM				
				R	

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 13</u></p> <p><u>FLOOR AND WALL TILING (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Site Visit</u></p> <p>The tenderer is advised to visit the site and acquaint themselves fully as to the conditions on site and working times as no claims in this regard will be entertained.</p> <p><u>Pricing of Bills</u></p> <p>Tenderer is to allow an adequate wastage factor when pricing. Any deviation of the quantities as a result of wastage is to be factored into the rates.</p> <p>Tenderer is advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect.</p> <p>Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes.</p> <p>The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderer shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions.</p> <p>Final measurement shall be made from construction drawings or from measurements taken on site.</p> <p><u>Tile Specifications</u></p> <p>Tenderer is advised that the skirting is to be cut under a controlled factory environment to ensure the quality of the cut is even across all individual sections.</p> <p><u>WALL TILING</u></p>			
	Carried forward		R	
	<p>Bill No. 13</p> <p>TILING (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>			

Brought forward

R

150 x 150mm Essence White gloss (WGI-4-1) glossy white tile or similar approved ceramic wall tiles fixed with adhesive on brickwork including cement plaster backing (plaster measured elsewhere) and flush pointed with tinted blue grout

2.13.1 On walls m2 50
A : 4 B : 38 C : 8 D : 0

2.13.2 On walls in isolated panels, splashbacks, etc m2 11
A : 1 B : 8 C : 2 D : 0

SUNDRIES

Supply and install Aluminium edge trim

2.13.3 12mm Aluminium straight edge trim fixed vertically to edges and ends of wall tiles m 10
A : 1 B : 8 C : 2 D : 0

Stainless steel corner protectors, stair nosings, expansion, joint strips, etc.

2.13.4 30mm Stainless steel straight edge trim to ends of wall m 5
A : 0 B : 4 C : 1 D : 0

Carried Forward to Sectional Summary:

R

Bill No. 13
TILING (PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 14</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(PROVISIONAL)</u>			
	<u>PLUMBING</u>			
	NOTE: 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			
	<u>RAINWATER DISPOSAL</u>			
	<u>'Seamless' aluminium gutters</u>			
2.14.1	OGEE 125 x 75mm 0.6mm Seamless aluminium proprietary eaves eaves gutters with baked enamel finished fixed with concealed brackets A : 7 B : 21 C : 16 D : 0	m	44	
2.14.2	Extra over eaves gutter for stopped ends A : 4 B : 4 C : 4 D : 0	No	12	
2.14.3	Extra over eaves gutter for drop box suitable 155 x 100mm box gutter A : 2 B : 2 C : 2 D : 0	No	6	
	<u>Aluminium downpipes</u>			
2.14.4	100 x 75mm 0.6mm Fluted aluminium downpipes with baked enamel finish A : 7 B : 7 C : 7 D : 0	m	22	
2.14.5	Extra over rainwater downpipes for bends A : 4 B : 4 C : 4 D : 0	No	13	
2.14.6	Extra over rainwater downpipes for shoes A : 2 B : 2 C : 2 D : 0	No	6	
	<u>SANITARY FITTINGS</u>			
	Carried forward		R	
	Bill No. 14			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

Brought forward

R

"Vaal"

2.14.7	'Hibiscus' rounded wall-hung basin size 510 x 405mm colour: white (code: 702303) with three semi-punched tapholes, integrated overflow, and chain stay hole through the centre semi-punched tapholes including universal half pedestal (code: 715222WH) c/w fixing screws.	No	1
	A : 1 B : 0 C : 0 D : 0		
2.14.8	'Hibiscus' rounded wall-hung basin size 510 x 405mm colour: white (code: 702303) with three semi-punched tapholes, integrated overflow, and chain stay hole through the centre semi-punched tapholes.	No	1
	A : 0 B : 0 C : 1 D : 0		
2.14.9	'Afsan' vitreous china close coupled low level toilet pan size 460 x 360 x 390mm(H) (code: 705600WH) WC suite colour White, comprising 90° outlet open rim pan (code: 772600) and matching 6/3 litre top dual flush cistern (code: 710533) compatible with back inlet flush valve including lid and fitments, flush valve and heavy duty double flap toilet seat	No	1
	A : 0 B : 1 C : 0 D : 0		
2.14.10	"Orchid Paraplegic" vitreous china back inlet (code: 439016), comprising 90° wall hung rim pan compatible with back inlet exposed flush valve (code: 772600) and matching 6/3 litre top dual flush cistern (code: 710533) including lid and fitments, flush valve and heavy duty double flap toilet seat (code: 8945Z000)	No	1
	A : 0 B : 0 C : 1 D : 0		
<u>"Atlas Plastics (Pty) Ltd" or equal and approved</u>			
2.14.11	Atlas "VIP 200" (code 222AP) pedestal with footpiece complete with seat and lid screwed in precast slab including inlet funnel (code 224AP) riveted to shaft	No	8
	A : 2 B : 3 C : 3 D : 0		
2.14.12	Atlas 507AP bowl urinal C/W 496 AP waterless urinal fitting, waste, etc complete	No	5
	A : 0 B : 5 C : 0 D : 0		

Carried forward

R

**Bill No. 14
PLUMBING AND DRAINAGE (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Brought forward

R

2.14.13	Atlas Plastics "Christy" (Code 945AP) wash hand basin with splashback, colour Granite, overall size 580 x 410mm wide with 2 tap holes and 40mm waste outlet, plugged and screwed to wall with galvanised screws and brackets A : 0 B : 1 C : 0 D : 0	No	1		
	<u>ENVIRO-LOO SYSTEM</u>				
	<u>Enviro-loo system</u>				
2.14.14	Provide the amount of R434,700.00 (Four Hundred and Thirty Four Thousand Seven Hundred Rand) for the Design, Supply and Installation of Enviro-loo Ablution System Including Provision of COC A : 0.00 B : 6.00 C : 0.00 D : 0.00		Item		113 400.00
	<u>"Franke"</u>				
	<u>SANITARY PLUMBING</u>				
	<u>Black uPVC UV stabilised pipes</u>				
2.14.15	110mm Vent pipes A : 8 B : 16 C : 16 D : 0	m	40		
	<u>Extra over Black uPVC UV stabilised pipes for fittings</u>				
2.14.16	Vent cowl formed of 110mm vent valve with top cut off and black shade cloth fixed over end of vent pipe A : 2 B : 4 C : 4 D : 0	No	10		
	<u>uPVC pipes</u>				
2.14.17	50mm Pipes A : 4 B : 4 C : 4 D : 0	m	12		
2.14.18	110mm Pipes A : 2 B : 4 C : 4 D : 0	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
2.14.19	50mm Bend A : 2 B : 2 C : 2 D : 0	No	6		

Carried forward

R

**Bill No. 14
PLUMBING AND DRAINAGE (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Brought forward

R

2.14.20	110mm Bend A : 4 B : 8 C : 8 D : 0	No	20
2.14.21	50mm Access bend A : 1 B : 1 C : 1 D : 0	No	3
2.14.22	110mm Access bend A : 2 B : 4 C : 4 D : 0	No	10
2.14.23	50mm Junction A : 1 B : 1 C : 1 D : 0	No	3
2.14.24	110mm Junction A : 2 B : 4 C : 4 D : 0	No	10
2.14.25	110mm Reducing junction A : 2 B : 4 C : 4 D : 0	No	10
2.14.26	110mm Pan connector A : 2 B : 4 C : 4 D : 0	No	10

TRAPS ETC

"Cobra Watertech" or equal and approved

2.14.27	32 x 40mm Butyl rubber P-trap jointed to waste outlet fitting and to 50mm uPVC pipe including clamps A : 0 B : 1 C : 0 D : 0	No	1
2.14.28	40mm 360 CP bottle trap A : 1 B : 0 C : 1 D : 0	No	2

WASTE UNIONS, ETC.

"Cobra Watertech" or equal and approved

2.14.29	COBRA WATERTECH 32mm chrome plated basin waste (code: 308) with 62mm diameter flange, 80mm long shank and plug. A : 0 B : 1 C : 1 D : 0	No	2
2.14.30	COBRA WATERTECH 40mm chrome plated waste (Code: 309-40) with anti-theft plug and spindle. A : 2 B : 3 C : 2 D : 0	No	7

TAPS, VALVES, ETC

Carried forward

R

**Bill No. 14
PLUMBING AND DRAINAGE (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Brought forward

R

"Cobra Watertech" or equal and approved

2.14.31	COBRA WATERTECH (Code. 1090-15) fullway isolating ball valves with plastic coated plated steel lever handle A : 0 B : 1 C : 1 D : 0	No	2
2.14.32	COBRA WATERTECH (Code. 1090-40) fullway isolating ball valves with plastic coated plated steel lever handle A : 0 B : 0 C : 1 D : 0	No	1
2.14.33	15mm Chromium plated 'Star 136-15' stopcock A : 0 B : 1 C : 0 D : 0	No	1
2.14.34	15mm Chromium plated 'Star 106-15' basin bibtap A : 0 B : 1 C : 0 D : 0	No	1
2.14.35	15mm Chromium plated elbow action pillartap (code 503-21B) A : 1 B : 0 C : 1 D : 0	No	2
2.14.36	"COB:-KF3-402PR" standard flushmaster toilet flushvalve concealed type including back entry, econoflush push button assembly with push rod, rubber pan connectore, integral vacuum breaker and non-hold open feature A : 0 B : 1 C : 0 D : 0	No	1
2.14.37	"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 A : 0 B : 0 C : 1 D : 0	No	1

WATER SUPPLIES

Class 0 copper pipes

2.14.38	15mm Pipes A : 3 B : 3 C : 3 D : 0	m	9
2.14.39	15mm Pipes chased into brick walls A : 2 B : 2 C : 2 D : 0	m	6
2.14.40	22mm Pipes A : 2 B : 3 C : 2 D : 0	m	7

Carried forward

R

**Bill No. 14
PLUMBING AND DRAINAGE (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Brought forward				R
2.14.41	22mm Pipes chased into brick walls A : 2 B : 3 C : 2 D : 0	m	7	
2.14.42	28mm Pipes A : 3 B : 2 C : 3 D : 0	m	8	
<u>Extra over class 0 copper pipes for capillary fittings</u>				
2.14.43	15mm Fittings A : 3 B : 2 C : 3 D : 0	No	8	
2.14.44	22mm Fittings A : 2 B : 2 C : 2 D : 0	No	6	
2.14.45	28mm Fittings A : 2 B : 2 C : 2 D : 0	No	6	
<u>Extra over class 0 copper pipes for brass compression fittings</u>				
2.14.46	15mm Fittings A : 2 B : 2 C : 2 D : 0	No	6	
2.14.47	22mm Fittings A : 2 B : 2 C : 2 D : 0	No	6	
2.14.48	28mm Fittings A : 2 B : 2 C : 2 D : 0	No	6	
<u>Pipes laid below ground including excavations, backfill, etc. complete</u>				
<u>Class 12 HDPE pipes</u>				
2.14.49	25mm Pipe laid in and including trenches not exceeding 1m deep A : 0 B : 0 C : 0 D : 200	m	200	
2.14.50	50mm Pipe laid in and including trenches not exceeding 1m deep A : 0 B : 0 C : 0 D : 25	m	25	
<u>Extra over Class 12 HDPE pipes for fittings</u>				
2.14.51	25mm Bends A : 0 B : 0 C : 0 D : 9	No	9	
Carried forward				R
Bill No. 14 PLUMBING AND DRAINAGE (PROVISIONAL) Prepared by SIST CONSORTIUM				

Brought forward

R

2.14.52	50mm Bends	No	1
	A : 0 B : 0 C : 0 D : 1		
2.14.53	25mm Reducer	No	9
	A : 0 B : 0 C : 0 D : 9		
2.14.54	50mm Reducer	No	2
	A : 0 B : 0 C : 0 D : 2		
2.14.55	25mm Tee	No	7
	A : 0 B : 0 C : 0 D : 7		

TESTING

2.14.56	Allow for testing the whole of the sanitary plumbing and water supply	Item	
	A : 1.00 B : 0.00 C : 0.00 D : 0.00		

Carried Forward to Sectional Summary:

R

**Bill No. 14
PLUMBING AND DRAINAGE (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 15</u>			
	<u>GLAZING (PROVISIONAL)</u>			
	<u>GLAZING TO WOOD/STEEL WITH PUTTY</u>			
	<u>6mm Thick obscure safety glass</u>			
2.15.1	Panes exceeding 0,5m ² and not exceeding 2m ² A : 1 B : 5 C : 4 D : 0	m2	10	
	<u>MIRRORS, ETC</u>			
	<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>			
2.15.2	Mirror 450 x 450mm high A : 2 B : 3 C : 0 D : 0	No	5	
	Carried Forward to Sectional Summary:			
	Bill No. 15			
	GLAZING (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			
			R	

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 16</u></p> <p><u>PAINTWORK (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PRICING OF BILLS</u></p> <p>Tenderers are advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect.</p> <p>The Contractor shall be responsible for adequately protecting his work during installation and shall provide a suitable protective covering to be removed when so directed by the Main Contractor.</p> <p>Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes.</p> <p>The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions.</p> <p>Final measurement shall be made from construction drawings or from measurements taken on site.</p> <p><u>PROGRAMME REQUIREMENTS</u></p> <p>Tenderers are advised to discuss their programme with the Principal Agent to ensure that no delays occur.</p> <p>Tenderers will be required to have sufficient teams on site, at all times, as to ensure that the programme dates are met. Tenderers are to allow for this in their tenders as no claim for additional teams or workmen will be entertained at a later stage.</p> <p><u>SITE REPRESENTATIVE</u></p> <p>Tenderers are to allow for a full time site representative.</p>			
	Carried forward		R	
	<p>Bill No. 16</p> <p>PAINT WORK (PROVISIONAL)</p> <p>Prepared by SIST CONSORTIUM</p>			

Brought forward

R

PAINT SPECIFICATIONS

All painting shall be done in accordance with Architect's specifications unless otherwise described

COLOURS

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

GUARANTEE

A Project Guarantee Request Sheet must be filled in and passed on to the relevant ICI Dulux representative. Please request this from your specifier consultant. The client/contractor must notify ICI Dulux TWO weeks prior to commencement of the project to facilitate the necessary QA.

PAINTWORK, ETC. TO NEW WORK

"PLASCON" OR OTHER EQUAL AND APPROVED

ON INTERNAL FLOATED PLASTER SURFACES

Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use

2.16.1	Walls	m2	332	
	A : 90 B : 141 C : 101 D : 0			

ON FIBRE-CEMENT BOARD SURFACES

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

2.16.2	Fascias and barge boards, including priming metal jointing strips	m2	28	
	A : 5 B : 13 C : 10 D : 0			

Carried forward

R

Bill No. 16
PAINT WORK (PROVISIONAL)
Prepared by SIST CONSORTIUM

Brought forward

R

2.16.3 Skirtings, rails, etc not exceeding 300mm girth m 70
A : 18 B : 18 C : 34 D : 0

ON METAL SURFACES

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

2.16.4 Door frames m2 12
A : 3 B : 6 C : 3 D : 0

ON WOOD SURFACES

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)

2.16.5 On doors m2 48
A : 12 B : 24 C : 12 D : 0

2.16.6 Skirtings, rails, etc not exceeding 300mm girth m 140
A : 36 B : 36 C : 68 D : 0

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

2.16.7 Roof timbers at eaves and verges m2 26
A : 4 B : 12 C : 10 D : 0

SPECIALIST FLOOR COATINGS (SUPPLIER TO BE SABS ISO 9000 COMPLIANT)

Prepare substrate, prime and apply two coats PROSTRUCT623 high build epoxy enamel (colour to architects approval) all in accordance with the manufacturer's specifications

2.16.8 On floors m2 77
A : 13 B : 34 C : 30 D : 0

Carried Forward to Sectional Summary:

R

Bill No. 16
PAINT WORK (PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 17</u>			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>(PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<u>DESLUDGING OF EXISTING PITS AND SEPTIC TANKS</u>			
	<u>Desludging of existing pits and septic tanks</u>			
2.17.1	Provide the amount of R25,000.00 (Twenty Five Thousand Rand) for the Desludging of Existing Pits and Septic Tanks Including Provision of Proof of Safe Desludging and Disposal Certificate from a Registered Sewerage Disposal Firm A : 0.00 B : 0.00 C : 0.00 D : 1.00	Item		25 000.00
	<u>REFURBISHMENT OF EXISTING ENVIRO-LOO TOILETS</u>			
	<u>Refurbishment of Existing Enviro-Loo Toilets</u>			
2.17.2	Provide the amount of R60 000 (Sixty Thousand Rand) for Refurbishment of Existing Enviro-loo Toilets A : 0.00 B : 0.00 C : 0.00 D : 6.00	Item		60 000.00
	<u>RENO-MATRESS</u>			
	<u>RENO-MATRESS</u>			
2.17.3	Provide the amount of R 15, 000.00 (Fifteen Thousand Rand) for Reno-Matress A : 0.00 B : 0.00 C : 0.00 D : 3.00	Item		15 000.00
	Carried Forward to Sectional Summary:		R	
	Bill No. 17			
	BUDGETARY ALLOWANCES (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

**NTSEDZENI SECONDARY SCHOOL
WATER, SANITATION AND FENCING
TMT-LDOE-2022/23- LPCL1B**

Bill No	SUMMARY	Page No	Amount
2.1	ALTERATIONS (PROVISIONAL)	30	
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2.5	PRECAST CONCRETE (PROVISIONAL)	41	
2.6	MASONRY (PROVISIONAL)	45	
2.7	WATERPROOFING (PROVISIONAL)	48	
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<p style="text-align: right;">Carried to Final Summary</p> <p>Prepared by SIST CONSORTIUM</p>			
			R

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>OPEN WALKWAYS (ALL TRADES)(PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
3.1.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	728	
	<u>EXCAVATION OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3.1.2	Reduce levels under floors	m3	175	
3.1.3	Trenches	m3	15	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3.1.4	Soft rock	m3	1	
3.1.5	Hard rock	m3	2	
	<u>WORKING SPACE</u>			
	Carried forward		R	
	Bill No. 1 OPEN WALKWAYS (PROVISIONAL) Prepared by SIST CONSORTIUM			

Brought forward

R

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

3.1.6	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	m2	160
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Extra over back excavation in earth for working space for excavation in soft rock

3.1.7	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	16
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Extra over back excavation in earth for working space for excavation in hard rock

3.1.8	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	32
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CARTING AWAY

Extra over all excavations for carting way

3.1.9	Surplus material from excavations and/or stocked piles on site to a dumping site to be located by the contractor	m3	190
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RISK OF COLLAPSE

Risk of collapse of excavations

3.1.10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	160
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KEEPING EXCAVATIONS FREE OF WATER

Keeping excavations free of water

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

Carried forward

R

Bill No. 1
OPEN WALKWAYS (PROVISIONAL)
Prepared by SIST CONSORTIUM

	Brought forward			R	
	<u>Layerworks</u>				
3.1.12	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	73		
3.1.13	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	73		
	<u>COMPACTION</u>				
	<u>Compaction of surfaces</u>				
3.1.14	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	552		
	<u>TESTS</u>				
	<u>Prescribed density tests on filling</u>				
3.1.15	Modified AASHTO Density test	No	9		
3.1.16	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	9		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance to SANS 5859</u>				
3.1.17	Under paved walkways, etc	m2	552		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	Carried forward			R	
	Bill No. 1 OPEN WALKWAYS (PROVISIONAL) Prepared by SIST CONSORTIUM				

		Brought forward			R
		<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
		<u>20Mpa/19mm Concrete</u>			
3.1.18	Foundation beams	m3	9		
		<u>Test blocks</u>			
3.1.19	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		
		<u>MOVEMENT JOINTS, ETC.</u>			
		<u>Expansion joints with 10mm softboard between vertical concrete surfaces</u>			
3.1.20	10mm Joints not exceeding 300mm high	m	445		
		<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
		<u>Rough formwork to sides</u>			
3.1.21	Aprons slabs, paving, walkways and ramps	m	890		
		<u>REINFORCEMENT (PROVISIONAL)</u>			
		<u>High tensile & Mild steel reinforcement to structural concrete work</u>			
3.1.22	Various Diameter Bars	t	0.85		
		<u>MASONRY</u>			
		<u>BRICK PAVING</u>			
3.1.23	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	485		
		Carried forward			R
	Bill No. 1 OPEN WALKWAYS (PROVISIONAL) Prepared by SIST CONSORTIUM				

Brought forward

R

WATERPROOFING

Joint Sealants, etc

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

3.1.24 In 10mm joints not exceeding 300mm high

m

445

Carried Forward to Sectional Summary:

R

Bill No. 1
OPEN WALKWAYS (PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE V-DRAINS (ALL TRADES)</u> <u>(PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
3.2.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	90	
	<u>EXCAVATION OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3.2.2	Reduced levels under floors	m3	12	
	<u>CARTING AWAY</u>			
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material</u>			
3.2.3	Off site to be located by the contractor	m3	12	
	<u>COMPACTION</u>			
	Carried forward		R	
	Bill No. 2 CONCRETE V-DRAINS (PROVISIONAL) Prepared by SIST CONSORTIUM			

	Brought forward			R	
	<u>Compaction of surfaces</u>				
3.2.4	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	90		
	<u>TESTS</u>				
	<u>Prescribed density tests on filling</u>				
3.2.5	Modified AASHTO Density test	No	5		
3.2.6	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	5		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance to SANS 5859</u>				
3.2.7	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	90		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
	<u>20MPa/19mm Concrete</u>				
3.2.8	Surface beds, slabs, etc to falls and currents	m3	12		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete with a wood float finish</u>				
3.2.9	Concrete channel to falls	m2	90		
	Carried forward			R	
	Bill No. 2 CONCRETE V-DRAINS (PROVISIONAL) Prepared by SIST CONSORTIUM				

Brought forward

R

Test blocks

3.2.10	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	2
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ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

3.2.11	V drains, paving and ramps not exceeding 300mm high	m	180
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MOVEMENT JOINTS, ETC.

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

3.2.12	10mm Joints not exceeding 300mm high	m	90
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REINFORCEMENT (PROVISIONAL)

Fabric reinforcement

3.2.13	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	90
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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

3.2.14	In 10mm joints not exceeding 300mm high	m	90
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Carried Forward to Sectional Summary:

R

**Bill No. 2
CONCRETE V-DRAINS (PROVISIONAL)
Prepared by SIST CONSORTIUM**

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>WATER TANK SUPPORTS & DRINKING FOUNTAIN (ALL TRADES) (PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<u>EARTHWORKS</u>			
	<u>EXCAVATION OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3.3.1	Bases	m3	25	
	<u>Extra over trench and hole excavation in earth for excavation in</u>			
3.3.2	Hard rock	m3	2	
	<u>CARTING AWAY</u>			
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk)</u>			
3.3.3	Off site to be located by the contractor	m3	25	
	<u>EARTH FILLING, ETC</u>			
	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			
	Carried forward			
	Bill No. 3			
	WATER TANKS (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			
			R	

	Brought forward			R	
	<u>Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density</u>				
3.3.4	Backfilling to trenches, holes, etc.	m3	10		
	<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
	<u>Keeping excavations free of water</u>				
3.3.5	Allow for keeping excavations free of water or mud by hand or machinery		Item		
	<u>COMPACTION</u>				
	<u>Compaction of surfaces</u>				
3.3.6	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	20		
	<u>TESTS</u>				
	<u>Prescribed density tests on filling</u>				
3.3.7	Modified AASHTO Density test	No	12		
3.3.8	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	12		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance to SANS 5859</u>				
3.3.9	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	20		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	Carried forward			R	
	Bill No. 3 WATER TANKS (PROVISIONAL) Prepared by SIST CONSORTIUM				

	Brought forward			R	
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10MPa Concrete</u>				
3.3.10	Surface blinding under footings, bases, etc.	m3	1		
	<u>REINFORCED CONCRETE CAST AGAINST/ON FORMWORK</u>				
	<u>25MPa/19mm Concrete</u>				
3.3.11	Surface beds	m3	2		
3.3.12	Bases	m3	13		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete with a wood float</u>				
3.3.13	Surface beds, slabs, etc.	m2	20		
	<u>Test blocks</u>				
3.3.14	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		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides</u>				
3.3.15	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	30		
3.3.16	Bases	m2	23		
	<u>Boxing in smooth formwork to form</u>				
3.3.17	50mm Horizontal chamfer at corner	m	30		
	Carried forward			R	
	Bill No. 3 WATER TANKS (PROVISIONAL) Prepared by SIST CONSORTIUM				

Brought forward

R

REINFORCEMENT (PROVISIONAL)

Mild steel reinforcement to structural concrete work

3.3.18	10mm Diameter bars	t	1.071
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MASONRY

BRICKWORK IN FOUNDATIONS

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

3.3.19	One brick wall	m2	15
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BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP Bricks in Class II mortar

3.3.20	One brick wall	m2	15
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BRICKWORK SUNDRIES

Bagging of 1:3 cement and sand mixture

3.3.21	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

3.3.22	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

3.3.23	Extra over brickwork for face brickwork	m2	15
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PLUMBING AND DRAINAGE

Carried forward

R

Bill No. 3
WATER TANKS (PROVISIONAL)
Prepared by SIST CONSORTIUM

Brought forward			R
<u>WATER SUPPLIES AND FIRE SERVICES</u>			
<u>TAPS, VALVES, ETC</u>			
<u>"Cobra Watertech" or equal and approved</u>			
3.3.24	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	13
<u>TANKS, ETC</u>			
<u>Polyethylene drinking water tanks</u>			
3.3.25	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
3.3.26	5000 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	8
3.3.27	10000 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	2
<u>Elevated Tank Stand</u>			
3.3.28	Manufacture, supply, deliver and erect galvanised elevated steel tank stand including foundations, formwork, rebars, etc complete	No	2
Carried forward			R
Bill No. 3			
WATER TANKS (PROVISIONAL)			
Prepared by SIST CONSORTIUM			

Brought forward

R

PRECAST CONCRETE

Note: Tenderers to refer to drawing number ----- when pricing all components related to the workability of the water fountain (underground water pipes measured elsewhere)

DRINKING FOUNTAIN

Supply and install pre-cast concrete water fountain

3.3.29	Pre-cast Concrete outdoor floor standing drinking fountain including stainless steel tap.	No	3
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TESTING

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

R

Bill No. 3
WATER TANKS (PROVISIONAL)
Prepared by SIST CONSORTIUM

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>FENCING AND GATES</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Design Responsibility</u>			
	Tenderers are responsible for the design and supply of the fencing system and rates shall include approval and sign off from an approved Engineer			
	<u>Shop Drawings</u>			
	The successful Tenderer shall provide full shop drawings and calculations for approval by the Architect and Engineer prior to commencing work. The cost of such shop drawings shall be included in the rates below			
	<u>G.M.S CIASS 'C' FENCE</u>			
	<u>Galvanised security fence with steel posts, stays, gates, etc. including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground</u>			
3.4.1	Galvanised security fence 1,8m high complete with all earthworks, concrete bases etc. as confirmed and approved by the suppliers Engineer. (Colour of fencing system: TBC by Architect)	m	585	
3.4.2	5,500mm Wide x 1,800mm High Main vehicular gate	No	1	
3.4.3	6,500mm Wide x 1,800mm High truck entry gate	No	1	
	Carried Forward to Sectional Summary:		R	
	Bill No. 4			
	FENCING (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</u>			
	<u>SOAK-AWAY (ALL TRADES)</u>			
	<u>(PROVISIONAL)</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE, ETC</u>			
	<u>Site clearance</u>			
3.5.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	73	
3.5.2	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m2	73	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3.5.3	Holes	m3	70	
	<u>Extra over bulk excavations in earth for excavation in</u>			
3.5.4	Soft rock	m3	7	
3.5.5	Hard rock	m3	7	
	<u>Extra over all excavations for carting away</u>			
3.5.6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	48	
	<u>Risk of collapse of excavations</u>			
3.5.7	Sides of bulk excavations not exceeding 1,5m deep (LI)	m2	49	
	Carried forward			
	Bill No. 5			
	SOAKAWAY (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			

R

Brought forward			R
<u>EARTH FILLING, ETC</u>			
<u>Earth filling supplied by the contractor (not compacted)</u>			
3.5.8	650mm Thick layer of 19mm diameter stone filling on ground for soakaways, etc (LI)	m3	48
3.5.9	300mm Thick layer of insitu material filling in soakaways, etc (LI)	m3	22
<u>Keeping excavations free of water</u>			
3.5.10	Allow for keeping excavations free of water other than subterranean water	Item	
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>			
<u>DRAINAGE</u>			
<u>Class 34 HD uPVC sewer and drain pipes</u>			
3.5.11	160mm Perforated pipes laid in herring-bone pattern and including trenches not exceeding 1m deep (LI)	m	26
3.5.12	110mm Pipes laid in and including trenches not exceeding 1m deep (LI)	m	20
<u>Extra over Class 34 HD uPVC sewer and drain pipes for fittings</u>			
3.5.13	110mm Bend (LI)	No	4
3.5.14	160mm Reducing tee(LI)	No	2
<u>Testing</u>			
3.5.15	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	
Carried forward			R
Bill No. 5			
SOAKAWAY (PROVISIONAL)			
Prepared by SIST CONSORTIUM			

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Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 6</u>			
	<u>SEPTIC TANK (ALL TRADES)</u>			
	<u>(PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE, ETC</u>			
	<u>Site clearance</u>			
3.6.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	19	
3.6.2	Stripping average 150mm thick layer of top soil and stockpiling on site (LI)	m2	19	
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3.6.3	Holes (Tank)	m3	37	
	<u>Excavation in earth exceeding 2m but not exceeding 4m deep</u>			
3.6.4	Holes (Tank)	m3	12	
	<u>Extra over bulk excavations in earth for excavation in</u>			
3.6.5	Soft rock	m3	2	
3.6.6	Hard rock	m3	4	
	Carried forward			
	Bill No. 6			
	SEPTIC TANK (PROVISIONAL)			
	Prepared by SIST CONSORTIUM			
			R	

	Brought forward			R	
	<u>Extra over back excavation in earth for working space for excavation in soft rock</u>				
3.6.7	Exceeding 1,5m and not exceeding 3m deep, etc. 300mm away from excavated face	m2	14		
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>				
3.6.8	Exceeding 1,5m and not exceeding 3m deep, etc. 300mm away from excavated face	m2	11		
	<u>Extra over all excavations for carting away</u>				
3.6.9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	49		
	<u>Risk of collapse of excavations</u>				
3.6.10	Sides of trench and hole excavations not exceeding 1,5m deep (LI)	m2	18		
3.6.11	Sides of trench and hole excavations exceeding 1,5m deep (LI)	m2	14		
	<u>Keeping excavations free of water</u>				
3.6.12	Keeping excavations free of all water other than subterranean water		Item		
	<u>EARTH FILLING, ETC</u>				
	<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density</u>				
3.6.13	Imported G5 stabilised 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 at an optimum moisture content of 2%	m3	9		
	Carried forward			R	
	Bill No. 6 SEPTIC TANK (PROVISIONAL) Prepared by SIST CONSORTIUM				

	Brought forward			R
	<u>Compaction of surfaces</u>			
3.6.14	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	19	
	<u>Prescribed density tests on filling</u>			
3.6.15	"Modified AASHTO Density" test	No	2	
3.6.16	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	2	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide in accordance with SANS 5859</u>			
3.6.17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m2	19	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT(CPAP WORK GROUP NO. 110 UNLESS OTHERWISE STATED)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of tests</u>			
	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			R
	Bill No. 6 SEPTIC TANK (PROVISIONAL) Prepared by SIST CONSORTIUM			

	Brought forward			R	
	<u>Formwork</u>				
	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.				
	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.				
	Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.				
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10MPa Concrete</u>				
3.6.18	Surface blinding under footings and bases (LI)	m3	1		
	<u>REINFORCED CONCRETE CAST AGAINST/ON FORMWORK</u>				
	<u>25MPa/19mm Concrete</u>				
3.6.19	Tank bases (LI)	m3	12		
3.6.20	Slabs including beams and inverted beams (LI)	m3	4		
	Carried forward			R	
	Bill No. 6 SEPTIC TANK (PROVISIONAL) Prepared by SIST CONSORTIUM				

		Brought forward			R
		<u>TEST BLOCKS</u>			
		<u>Test blocks</u>			
3.6.21	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	4		
		<u>CONCRETE SUNDRIES</u>			
		<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
3.6.22	Surface beds, slabs, etc (LI)	m2	19		
		<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)(CPAP WORK GROUP NO. 111 UNLESS OTHERWISE STATED)</u>			
		<u>Rough formwork to sides</u>			
3.6.23	Edges, risers, ends and reveals not exceeding 300mm high or wide (LI)	m	12		
		<u>Rough formwork to soffits</u>			
3.6.24	Slabs, propped up exceeding 1.5m and not exceeding 3.5m high (LI)	m2	19		
		<u>Rough formwork to form</u>			
3.6.25	Opening exceeding 2m and not exceeding 3m girth through not exceeding 300mm slab (LI)	No	1		
		<u>MOVEMENT JOINTS, ETC.</u>			
		<u>Slip joints between horizontal concrete and brick surfaces with two layers of 3 ply malthoid</u>			
3.6.26	Not exceeding 300mm wide (LI)	m	4		
		<u>Expansion joints with bitumen impregnated fibreboard between vertical concrete surfaces</u>			
3.6.27	13mm Joints not exceeding 300mm high (LI)	m	10		
		Carried forward			R
	Bill No. 6 SEPTIC TANK (PROVISIONAL) Prepared by SIST CONSORTIUM				

Brought forward

R

REINFORCEMENT(CPAP WORK GROUP NO. 114 UNLESS OTHERWISE STATED)

High tensile steel reinforcement to structural concrete work

3.6.28	Rebar of various diameter bars (LI)	t	0.500	
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MASONRY(CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)

BRICKWORK IN FOUNDATIONS

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

3.6.29	One brick walls	m2	32	
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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 "Brixeal" or equal and approved bitumen emulsion waterproof coating

3.6.30	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	2	
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Galvanised brickwork reinforcement

3.6.31	150mm Wide reinforcement built in horizontally (LI)	m	86	
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WATERPROOFING (PROVISIONAL)(CPAP WORK GROUP NO. 120 UNLESS OTHERWISE STATED)

DAMPPROOFING OF WALLS AND FLOORS

Carried forward

R

Bill No. 6
SEPTIC TANK (PROVISIONAL)
Prepared by SIST CONSORTIUM

	Brought forward			R	
	<u>One layer of 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>				
3.6.32	In walls (LI)	m2	32		
	<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>				
3.6.33	On walls (LI)	m2	32		
3.6.34	Sealing edges to brickwork or concrete (LI)	m2	2		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
3.6.35	Under surface beds (LI)	m2	19		
	<u>PLASTERING(CPAP WORK GROUP NO. 142 UNLESS OTHERWISE STATED)</u>				
	<u>SCREEDS</u>				
	<u>Screeds steel trowelled, on concrete</u>				
3.6.36	30mm Thick on floors and landings (LI)	m2	19		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster steel trowelled, on brickwork</u>				
3.6.37	On walls (LI)	m2	32		
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)</u>				
	<u>SOIL DRAINAGE</u>				
	Carried forward			R	
	Bill No. 6 SEPTIC TANK (PROVISIONAL) Prepared by SIST CONSORTIUM				

	Brought forward			R	
	<u>Heavy duty (Class 34) uPVC sewer and drain pipes laid in Class B bedding including excavations, bedding, backfilling, compacting to 95% Mod AASHTO density, risk of collapse and dewatering of trenches</u>				
3.6.38	160mm Pipes laid in ground including excavation not exceeding 1m deep (LI)	m	32		
	<u>Extra over uPVC pipes for the following fittings</u>				
3.6.39	160mm Bend (LI)	No	6		
3.6.40	160mm ABC rodding eye (LI)	No	2		
	<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>				
3.6.41	Depth exceeding not exceeding 1m deep internally	No	1		
	<u>Covers, etc</u>				
3.6.42	"BESSANS DU PLESSIS" or equal and approved 450 x 600 type CCP Heavy Duty manhole single seal cover and frame (LI)	No	1		
	<u>Testing</u>				
3.6.43	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		
	Carried Forward to Sectional Summary:				R
	Bill No. 6				
	SEPTIC TANK (PROVISIONAL)				
	Prepared by SIST CONSORTIUM				

**NTSEDZENI SECONDARY SCHOOL
WATER, SANITATION AND FENCING
TMT-LDOE-2022/23- LPCL1B**

[illegible]

**NTSEDZENI SECONDARY SCHOOL
WATER, SANITATION AND FENCING
TMT-LDOE-2022/23- LPCL1B**

<u>FINAL SUMMARY</u>		Page No	Amount
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	VALUE ADDED TAX		R
	TOTAL		R
	Carried to Form of Tender		R
	Prepared by SIST CONSORTIUM		