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PREAMBLES FOR TRADES

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

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

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

GENERAL

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

SECTION A - PRINCIPAL BUILDING AGREEMENT

- 1 Definitions and interpretation (clause 1)

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

Item

Objective and Preparation (A2 to A14)

- 2 Offer acceptance and performance (clause 2)

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

Item

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Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
PRELIMINARIES

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

3	Documents (clause 3) F:..... V:..... T:.....	Item		
4	Design responsibility (clause 4) F:..... V:..... T:.....	Item		
5	Employer's agents (clause 5) F:..... V:..... T:..... The principal agent shall: - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part 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	Item		
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F:..... V:..... T:.....

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7	<p>Compliance with regulations (clause 7)</p> <p>F:..... V:..... T:.....</p> <p>Sub-clause 7.3 added: The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work.</p> <p>Sub-clause 7.3.1 is added: Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement."</p> <p>Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.</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.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>	Item		R
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8	Works risk (clause 8) F:..... V:..... T:.....			
		Item		
9	Indemnities (clause 9) F:..... V:..... T:.....			
		Item		
10	Works insurances (clause 10) F:..... V:..... T:.....			
		Item		
11	Liability insurances (clause 11) F:..... V:..... T:.....			
		Item		
12	Effecting insurance (clause 12) F:..... V:..... T:.....			
		Item		
13	NO CLAUSE	N/A		
14	Security (clause 14) The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) F:..... V:..... T:.....			
		Item		
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<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
16	Access to the works (clause 16) F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17) F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18) F:..... V:..... T:..... The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item		
19	Assignment (clause 19) F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item		
20	Nominated subcontractors (clause 20) F:..... V:..... T:.....	Item		
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27	Latent defects liability period (clause 27) F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29) F:..... V:..... T:..... The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
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32	<p>Adjustment to the contract value (clause 32)</p> <p>F:..... V:..... T:.....</p> <p>Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing</p>			
		Item		
33	<p>Recovery of expense and loss (clause 33)</p> <p>F:..... V:..... T:.....</p>			
		Item		
34	<p>Final account and final payment (clause 34)</p> <p>F:..... V:..... T:.....</p> <p>The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p>			
		Item		
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35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item		
<u>Cancellation (A36-A39)</u>				
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item		
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....	Item		
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....	Item		
<u>Dispute (A40)</u>				
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
<u>Substitute Provisions (A41)</u>				
41	State clauses (Clause 41) F:..... V:..... T:.....	Item		
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THE SCHEDULE

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder

42 Pre-tender information (clause 42)

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

Item

42.1 CONTRACTING AND OTHER PARTIES

42.1.1 Employer: The Mvula Trust

42.1.2 Principal Agent: SRSQS Quantity Surveyors [Pty] Ltd

42.2 CONTRACT DETAILS

42.2.1 Works Description: Construction of water and sanitation facilities

42.2.2 Site Description: As per the information provided in the tender data

42.2.3 Work or installations by direct contractors:

As per the information provided in the tender data

42.2.4 This agreement is for a government contract where there are specific options that are applicable to a **State** organ only

Yes

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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:

Seven days

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: As per the information provided in the tender data

Penalty Amount:

*The penalty per **calender day** shall be: **0.05% per R100 of the contract value** (inclusive of value added tax)*

42.2.8 For the works in **sections**: Intended date of practical completion and the penalty per calendar day

Section 1

N/A..... *Date*

N/A..... *Penalty Amount*

42.2.9 The **law** applicable to this **agreement** shall be that of:

South Africa (Country)

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42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

Contractor:

For the Sum of R Contract Amount + 10.00 %

With a deductible amount the contractor deems appropriate

42.3.2 Supplementary insurance is required:

No

42.3.3 Public liability insurance to be effected by:

Contractor:

For the Sum of R 5 000 000-00

With a deductible amount the contractor deems appropriate

42.4 DOCUMENTS

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”

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42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within:

5 Working days

The priced bills of quantities must be handed in with the tender

42.4.5 JBCC Engineering General Conditions are to be included in the **contract documents**:

No

42.4.6 The contract value is to be adjusted using escalation adjustment indices

No

Where **JBCC CPAP** is to be used

Base Month N/A

42.4.7 Details of changes made to the provision of JBCC standard documentation:

Part 1 - Contract Data completed by the Employer

SECTION B: PRELIMINARIES

Definitions and interpretation (B1)

43 Definition and interpretation (B1.1 - B1.4.6)

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

Item

Documents (B2)

44 Checking of documents (B2.1)

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

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45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A		
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
48	Priced documents (B2.5) F:..... V:..... T:.....	Item		
49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
50	Defined works area (B3.1) F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
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<u>Management of contract (B4)</u>				
57	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
58	Management of the works (B4.1) F:..... V:..... T:.....	Item		
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>				
63	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
64	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
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65	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
<u>Temporary works and plant (B6)</u>				
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
68	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
69	Advertising (B6.3) F:..... V:..... T:.....	Item		
70	Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:.....	Item		
71	Main notice board (B6.5) F:..... V:..... T:.....	Item		
72	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	N/A		
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<u>Temporary services (B7)</u>				
73	Location (B7.1) F:..... V:..... T:.....	Item		
74	Water (B7.2) Option [A] shall apply F:..... V:..... T:.....	Item		
75	Electricity (B7.3) Option [A] shall apply F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:.....	Item		
<u>Prime cost amounts (B8)</u>				
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
<u>Attendance on N/S Subcontractors (B9)</u>				
79	General attendance (B9.1) F:..... V:..... T:.....	Item		
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80	Special attendance (B9.2) F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
85	Protection of works (B11.1) F:..... V:..... T:.....	Item		
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86	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F:..... V:..... T:.....	Item		
87	Security of the Works (B11.3)			
	The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)			
	F:..... V:..... T:.....	Item		
88	Notice before covering work (B11.4)			
	F:..... V:..... T:.....	Item		
89	Disturbance (B11.5)			
	F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6)			
	F:..... V:..... T:.....	Item		
91	Works cleaning and clearing (B11.7)			
	F:..... V:..... T:.....	Item		
92	Vermin (B11.8)			
	F:..... V:..... T:.....	Item		
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93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
<u>Schedule of variables (B12)</u>				
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No			
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
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<div style="margin-bottom: 10px;">12.1.5 Geotechnical investigation (B3.2)</div> <div style="text-align: right; margin-bottom: 10px;">N/A</div> <div style="margin-bottom: 10px;">12.1.6 Existing premises occupied (B3.4)</div> <div style="margin-bottom: 10px;">12.1.7 Previous work - dimensional accuracy (B3.4)</div> <div style="margin-bottom: 10px;">12.1.8 Previous work - defects (B3.5)</div> <div style="margin-bottom: 10px;">12.1.9 Services - known (B3.7)</div> <div style="margin-bottom: 10px;">12.1.10 Protection of trees (B3.9)</div> <div style="margin-bottom: 10px;">All trees should be protected and only on instruction of the Principal Agent may any trees be removed</div> <div style="margin-bottom: 10px;">12.1.12 Enclosure of the works (B6.2)</div> <div style="margin-bottom: 10px;">12.1.11 Inspection of adjoining properties (B3.11)</div> <div style="margin-bottom: 10px;">12.1.13 Offices (B6.4.3)</div> <div style="margin-bottom: 10px;">Specific requirements:</div> <div style="margin-bottom: 10px;">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.</div> <div style="text-align: center; margin-top: 20px;">Carried to Collection</div> <div style="font-size: small; margin-top: 10px;">Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</div>	
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12.1.14 Main notice board (B6.5)	YES			
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)				
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			
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12.1.24 Environmental Disturbance (B11.6)

N/A

Post tender information (B12.2)

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

SECTION C: SPECIFIC PRELIMINARIES

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

98 **Site instructions**

Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor

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

Item

99 **Black economic empowerment and training**

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

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100	Proprietary branded products F:..... V:..... T:.....	Item		
101	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:..... The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item		
102	Contract instructions F:..... V:..... T:..... 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	Item		
103	Labour record F:..... V:..... T:..... 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	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD				

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

104	Plant record F:..... V:..... T:..... 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	Item		
105	Guarantees F:..... V:..... T:..... 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	Item		
106	Overtime F:..... V:..... T:.....	Item		
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	<p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>			
107	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>	Item		
108	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 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</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>		R	

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

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

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

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Section No. 1

PRELIMINARIES AND GENERAL

Bill No. 1

PRELIMINARIES

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

109	<p>HIV/AIDS Awareness</p> <p>F:..... V:..... T:.....</p> <p>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.</p> <p>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</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p>	Item		
110	<p>Community Liaison Officer (CLO)</p> <p>F:..... V:..... T:.....</p>	Item		
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The contractor shall appoint a CLO from the community to deal with all labour issues, sub-contracting and 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 month

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Extra over trench and hole excavations in earth for excavation:</u>				
6	Soft rock	m3	6		
7	Hard rock	m3	6		
	<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	52		
	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	98		
	<u>Keeping excavations free of water:</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m3	8		
12	Backfilling to trenches, holes, etc.	m3	7		
	<u>Compaction of surfaces:</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	32		
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

14	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	37		
15	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	29		
	<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO Density tests	No	7		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	27		
18	To bottom of concrete aprons	m2	38		
19	To bottoms and sides of trenches, etc.	m2	132		
20	To bottom and sides of pit	m2	63		
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EARTHWORKS

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EARTHWORKS

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>25Mpa/19mm Concrete:</u>				
7	Concrete base Slab in Pit	m3	4		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	96		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	38		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
	<u>Permanent formwork to soffits:</u>				
12	Slabs propped up exceeding 1.5m high not exceeding 3.5m high	m2	62		
13	Leave or form 500mm diameter opening in top of floor slab	No	9		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	94		
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Section No. 3 F8 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

CLUSTER 11
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CONSTRUCTION OF SANITATION FACILITIES
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Section No. 3

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO.3</u>			
<u>MASONRY</u>			
<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions:</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Hollow walls etc.:</u>			
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.			
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.			
User note: The above preamble generally applies for works in hot and humid coastal areas			
Carried to Collection			R
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MASONRY			
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Face bricks:

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing:

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SAMPLES

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

FOUNDATIONS

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

1	One brick walls	m2	65
2	One brick walls in pit	m2	23
3	Half brick corbelling in pit	m	17

FACE BRICKWORK

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

4	Extra over brickwork for face brickwork in foundation	m2	7
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SUPERSTRUCTURE

FACE BRICKWORK

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MASONRY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

5	Half brickwork for face brick walls pointed both sides	m2	34
6	One brickwork for face brick walls pointed both sides	m2	89
7	Extra over brickwork for face brickwork in beamfilling	m2	12
8	Fair raking and cutting	m	10

Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:

9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	11
---	--	---	----

Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle

m 11

10	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	11
----	--	----	----

11	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7
----	---	----	---

BRICKWORK SUNDRIES

Brick reinforcement:

12	75mm Wide reinforcement built in horizontally	m	127
13	150mm Wide reinforcement built in horizontally	m	811

Turning pieces:

14	220mm Wide turning piece to lintel etc	m	12
----	--	---	----

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MASONRY

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Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p>			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course:</u>			
1	In walls	m2	5	
	<u>One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:</u>			
2	Under surface beds	m2	41	
3	Aprons and ramps	m2	38	
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
4	Around steel windows and door frames.	m	33	
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	WATERPROOFING			
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Section No. 3

Bill No. 5

ROOF COVERINGS

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Bill No. 5

ROOF COVERINGS

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Pressed fibre-cement:

- | | | | | |
|---|--|---|----|--|
| 7 | 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips | m | 34 | |
|---|--|---|----|--|

DOORS, ETC.

Wrought meranti doors hung to steel frames:

- | | | | | |
|---|--|----|---|--|
| 8 | 44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1) | No | 2 | |
| 9 | 44mm Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2) | No | 8 | |

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Bill No. 6

CARPENTRY AND JOINERY

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Bill No. 6

CARPENTRY AND JOINERY

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Bill No. 6

CARPENTRY AND JOINERY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>"Buchel" or similar approved</u>				
5	Code B3227 SS 200 x 22mm pull handles fixed back to back	Pairs	1		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>"Union" or similar approved:</u>				
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberley-Clark" or Simlilar:</u>				
7	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	8		
	<u>Stainless steel:</u>				
8	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	2		
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Bill No. 7					
IRONMONGERY					
PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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AT GAMMALEBESE PRIMARY SCHOOL

Section No. 3

Bill No. 7

IRONMONGERY

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Bill No. 7

IRONMONGERY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

5	<u>Steel gates and frames:</u> Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2	
	<div style="text-align: right;">Carried to Collection</div> <div> Section No. 3 F8 Bill No. 8 METALWORK PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD </div>			R

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Section No. 3

Bill No. 8

METALWORK

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Bill No. 8

METALWORK

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Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	43	
	<u>WALL PLASTER</u>			
	<u>Cement Plaster on walls</u>			
2	On Interior sides of Pit walls	m2	42	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	33	
4	On internal textured plaster walls and floors in pit	m2	113	
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	PLASTERING			
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD			

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INSPECTION BY ENVIRO-LOO/SUPPLIER

- 3 Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.

Item

White glazed fireclay or vitreous china coupling with SABS specification 497 in

- 4 Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.
 • Material: Vitreous China
 • Basin code: (ATLBASWHU0500UE)
 • Height: 500mm
 • Width: 410mm
 • Depth: 480mm.

No

2

- 5 Elbow taps

No

2

FITTINGS

- 6 19mm chrome plated push button taps to wash troughs

No

2

- 7 Ref. 515/053232H21 elbow action mixer

No

1

- 8 Ref 301-32 C.P. slotted waste plug and chain

No

2

- 9 32 x 40mm Bottle trap

No

2

Sundries

- 10 Stainless-steel 24L SHE-BIN plugged to walls

No

2

SANITARY PLUMBING

Carried to Collection

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Bill No. 10

PLUMBING AND DRAINAGE

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TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>uPVC pipes</u>				
11	50mm Pipes	m	30		
12	50mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
13	50mm Bend	No	3		
14	50mm Access bend	No	2		
15	50mm Junction	No	2		
16	50mm Access junction	No	3		
17	50mm BSP adaptor	No	2		
	<u>PVC gulley</u>				
18	110mm Gulley trap with O, P, Q or S outlet, plain gulley head and grating, jointed to 110mm PVC pipe, including excavated for, bedding on and encasing in concrete 15 MPa / 19mm, not exceeding 0.75m deep to invert	No	1		
	<u>Sundries</u>				
19	Testing waste pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
20	15mm Pipes	m	32		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
21	15mm Fittings	No	21		
	<u>Brass</u>				
22	15mm Fullway gate valve	No	1		
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PLUMBING AND DRAINAGE					
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Section No. 3

Bill No. 10

PLUMBING AND DRAINAGE

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Bill No. 10

PLUMBING AND DRAINAGE

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<p><u>"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>				
2	On Doors (Internal)	m2	42		
	<u>Three coats matt varnish</u>				
3	On doors (External)	m2	14		
	<u>ON METAL</u>				
	<p><u>Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>				
4	On door frames	m2	12		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	9		
7	On windows with burglar bars	m2	5		
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	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD				

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PAINTWORK

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Bill No. 12

PAINTWORK

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CONSTRUCTION OF SANITATION FACILITIES
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Extra over trench and hole excavations in earth for excavation:</u>				
6	Soft rock	m3	5		
7	Hard rock	m3	5		
	<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	49		
	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	56		
	<u>Keeping excavations free of water:</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m3	6		
12	Backfilling to trenches, holes, etc.	m3	1		
	<u>Compaction of surfaces:</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	38		
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EARTHWORKS					
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

14	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	46		
15	Compaction of ground surface in pit 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	35		
	<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO Density tests	No	5		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	38		
18	To bottom of concrete aprons	m2	46		
19	To bottoms and sides of trenches, etc.	m2	42		
20	To bottom and sides of pit	m2	77		
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>25Mpa/19mm Concrete:</u>				
7	Concrete base Slab in Pit	m3	5		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	36		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	44		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
	<u>Permanent formwork to soffits:</u>				
12	Soffit of slabs on pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	59		
13	Leave or form 500mm diameter opening in top of floor slab	No	5		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	83		
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Section No. 4 SD3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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Face bricks:

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing:

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SAMPLES

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

FOUNDATIONS

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

1	One brick walls	m2	57
2	One brick walls in pit	m2	18
3	Half brick corbelling in pit	m	25

FACE BRICKWORK

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

4	Extra over brickwork for face brickwork in foundation	m2	4
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SUPERSTRUCTURE

FACE BRICKWORK

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MASONRY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

5	Half brickwork for face brick walls pointed both sides	m2	26
6	One brickwork for face brick walls pointed both sides	m2	99
7	Extra over brickwork for face brickwork in beamfilling	m2	10
8	Fair raking and cutting	m	16

Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:

9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	15
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	15

10	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3
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11	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	4
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BRICKWORK SUNDRIES

Brick reinforcement:

12	75mm Wide reinforcement built in horizontally	m	39
13	150mm Wide reinforcement built in horizontally	m	671

Turning pieces:

14	220mm Wide turning piece to lintel etc	m	14
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MASONRY

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MASONRY

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MASONRY

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Item No		Quantity	Rate	Amount
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	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p>			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course:</u>			
1	In walls	m2	7	
	<u>One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:</u>			
2	Under surface beds	m2	32	
3	Aprons and ramps	m2	40	
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
4	Around steel windows and door frames.	m	12	
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	WATERPROOFING			
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

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Bill No. 5

ROOF COVERINGS

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Bill No. 5

ROOF COVERINGS

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Pressed fibre-cement:</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	39		
	<u>DOORS, ETC.</u>				
	<u>Wrought meranti doors hung to steel frames:</u>				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1		
9	44mm Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	3		
10	44mm Framed batten door 900 x 2100mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D3)	No	1		
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Section No. 4 SD3 Bill No. 6 CARPENTRY AND JOINERY PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

Section No. 4

Bill No. 6

CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>"Buchel" or similar approved</u>				
5	Code B3227 SS 200 x 22mm pull handles fixed back to back	Pairs	2		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>"Union" or similar approved:</u>				
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	<u>DOOR CLOSERS AND FLOOR SPRINGS</u>				
	<u>"Union" or similar approved:</u>				
7	Dorma TS91/EN3 slide channel door closer - Non hold open (Silver)	No	1		
	<u>Push Plate</u>				
8	TS73-SS-FP or other approved 60 x 225 x 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.	No	1		
	<u>"Vaal Paragon" or similar approved:</u>				
9	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.	No	1		
10	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.	No	1		
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IRONMONGERY					
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BATHROOM FITTINGS

"Kimberley-Clark" or Similar:

11	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4
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Stainless steel:

12	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	2
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IRONMONGERY

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IRONMONGERY

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Bill No. 7

IRONMONGERY

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	<u>METALWORK</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p>			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated frames suitable for half brickwalls:</u>			
1	Frame for door 813 x 1883mm high	No	3	
	<u>1,6mm Double rebated frames suitable for one brickwalls:</u>			
2	Frame for door 813 x 2032mm high	No	1	
3	Frame for door 900 x 2100mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	5	
5	Window type NE 7,1022 x 654mm high including burglar bars	No	2	
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	METALWORK			
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Steel gates and frames:

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METALWORK
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METALWORK

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METALWORK

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	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	38	
	<u>WALL PLASTER</u>			
	<u>Cement Plaster on walls</u>			
2	On Interior sides of Pit walls	m2	44	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	38	
4	On internal textured plaster walls and floors in pit	m2	44	
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	PLASTERING			
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	<u>SECTION 4</u>			
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p>			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	Supply and Install Enviro-loo industrial system 1040 Model unit comprising of top unit and two x louvred inlets, drying plate, two x air inlets, standard toilet pan, seat and lid, 3500mm long with vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary fittings installed complete strictly in accordance with manufacturer's instructions	No	3	
2	Supply and Install Enviro-loo industrial system 1040 Model Disabled unit comprising of top unit and two x louvred inlets, drying plate, two x air inlets, standard toilet pan, seat and lid, 3500mm long with vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary fittings installed complete strictly in accordance with manufacturer's instructions	No	1	
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

3	Supply and Install Enviro-loo industrial system 1040 Model unit 5- bowl urinal evaporative tank system comprising of urinal evaporative tank, urinal bowls including brackets, 3500mm long with vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary fittings installed complete strictly in accordance with manufacturer's instructions	No	1		
4	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
<u>INSPECTION BY ENVIRO-LOO/SUPPLIER</u>					
5	Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.			Item	
<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>					
6	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall. • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm • Depth: 480mm.	No	1		
7	Cobra Welcome (Suppliers code: CWLBAWH2-6DT01) or other approved medium round wall hung paraplegic basin complete, size 430mm long X 390mm wide with and including pre-punched tap hole in the center of the basin and installed as per manufacturer's manual.	No	1		
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AT GAMMALEBESE PRIMARY SCHOOL

8	Elbow taps	No	1		
	<u>FITTINGS</u>				
9	19mm chrome plated push button taps to wash troughs	No	1		
10	Ref. 515/053232H21 elbow action mixer	No	1		
11	Ref 232 angle regulating valve including Flexi connector	No	2		
12	Ref 301-32 C.P. slotted waste plug and chain	No	2		
13	32 x 40mm Bottle trap	No	2		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
14	50mm Pipes	m	30		
15	50mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
16	50mm Bend	No	3		
17	50mm Access bend	No	2		
18	50mm Junction	No	2		
19	50mm Access junction	No	3		
20	50mm BSP adaptor	No	2		
	<u>PVC gulley</u>				
21	110mm Gulley trap with O, P, Q or S outlet, plain gulley head and grating, jointed to 110mm PVC pipe, including excavated for, bedding on and encasing in concrete 15 MPa / 19mm, not exceeding 0.75m deep to invert	No	1		
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PLUMBING AND DRAINAGE

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<p><u>"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>				
2	On Doors (Internal)	m2	28		
	<u>Three coats matt varnish</u>				
3	On doors (External)	m2	14		
	<u>ON METAL</u>				
	<p><u>Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>				
4	On door frames	m2	13		
5	On gates (Measured over the full flat area of both sides)	m2	11		
6	On gutters and down pipes	m	14		
7	On windows with burglar bars	m2	6		
	Carried to Collection			R	
	Section No. 4				
	SD3				
	Bill No. 12				
	PAINTWORK				
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD				

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Section No. 4

Bill No. 12

PAINTWORK

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PAINTWORK

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Extra over trench and hole excavations in earth for excavation:</u>				
6	Soft rock	m3	5		
7	Hard rock	m3	5		
	<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	47		
	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	54		
	<u>Keeping excavations free of water:</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m3	5		
12	Backfilling to trenches, holes, etc.	m3	1		
	<u>Compaction of surfaces:</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	33		
Carried to Collection					
Section No. 5 M4 Bill No. 1 EARTHWORKS PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					R

TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

14	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	41		
15	Compaction of ground surface in pit 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	30		
	<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO Density tests	No	5		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	33		
18	To bottom of concrete aprons	m2	41		
19	To bottoms and sides of trenches, etc.	m2	37		
20	To bottom and sides of pit	m2	72		
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EARTHWORKS					
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>25Mpa/19mm Concrete:</u>				
7	Concrete base Slab in Pit	m3	4		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	31		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	39		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	39		
	<u>Permanent formwork to soffits:</u>				
12	Soffit of slab on pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	54		
13	Leave or form 500mm diameter opening in top of floor slab	No	4		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	78		
Carried to Collection					R
Section No. 5 M4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 5</u></p> <p><u>BILL NO.3</u></p> <p><u>MASONRY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>BRICKWORK</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>Hollow walls etc.:</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 "Brixeal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p>			
	Carried to Collection		R	
	<p>Section No. 5</p> <p>M4</p> <p>Bill No. 3</p> <p>MASONRY</p> <p>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>			

Face bricks:

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing:

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SAMPLES

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

FOUNDATIONS

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

1	One brick walls	m2	47
2	One brick walls in pit	m2	15
3	4Half brick corbelling in pit	m	6

FACE BRICKWORK

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

4	Extra over brickwork for face brickwork in foundation	m2	3
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SUPERSTRUCTURE

FACE BRICKWORK

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MASONRY

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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

5	Half brickwork for face brick walls pointed both sides	m2	21
6	One brickwork for face brick walls pointed both sides	m2	94
7	Extra over brickwork for face brickwork in beamfilling	m2	7
8	Fair raking and cutting	m	16

Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:

9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	12
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Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle

10	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3
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11	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	4
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BRICKWORK SUNDRIES

Brick reinforcement:

12	75mm Wide reinforcement built in horizontally	m	29
13	150mm Wide reinforcement built in horizontally	m	651

Turning pieces:

14	220mm Wide turning piece to lintel etc	m	12
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MASONRY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Galvanised wire ties etc.:</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	19		
	<u>Prestressed fabricated lintels:</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	10		
	<u>Ventilation bricks:</u>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	12		
Carried to Collection					R
Section No. 5 M4 Bill No. 3 MASONRY PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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MASONRY

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Bill No. 3

MASONRY

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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p style="text-align: center;">-----</p>			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course:</u>			
1	In walls	m2	5	
	<u>One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:</u>			
2	Under surface beds	m2	27	
3	Aprons and ramps	m2	35	
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
4	Around steel windows and door frames.	m	9	
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	WATERPROOFING			
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	55	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	55	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	14	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7	
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	ROOF COVERINGS			
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CONSTRUCTION OF SANITATION FACILITIES
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ROOF COVERINGS

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ROOF COVERINGS

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Pressed fibre-cement:

- | | | | | |
|---|--|---|----|--|
| 7 | 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips | m | 36 | |
|---|--|---|----|--|

DOORS, ETC.

Wrought meranti doors hung to steel frames:

- | | | | | |
|---|--|----|---|--|
| 8 | 44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1) | No | 1 | |
| 9 | 44mm Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2) | No | 4 | |

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Bill No. 6

CARPENTRY AND JOINERY

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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Section No. 5

Bill No. 6

CARPENTRY AND JOINERY

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Bill No. 6

CARPENTRY AND JOINERY

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>"Buchel" or similar approved</u>				
5	Code B3227 SS 200 x 22mm pull handles fixed back to back	Pairs	1		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>"Union" or similar approved:</u>				
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberley-Clark" or Simlilar:</u>				
7	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5		
	<u>Stainless steel:</u>				
8	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
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Section No. 5 M4 Bill No. 7 IRONMONGERY PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

5	<u>Steel gates and frames:</u> Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2	
	<div style="text-align: right;">Carried to Collection</div> <div> Section No. 5 M4 Bill No. 8 METALWORK PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD </div>			R

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	<u>SECTION 5</u>			
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	33	
	<u>WALL PLASTER</u>			
	<u>Cement Plaster on walls</u>			
2	On Interior sides of Pit walls	m2	39	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	33	
4	On internal textured plaster walls and floors in pit	m2	39	
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	PLASTERING			
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>uPVC pipes</u>				
12	50mm Pipes	m	30		
13	50mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
14	50mm Bend	No	3		
15	50mm Access bend	No	2		
16	50mm Junction	No	2		
17	50mm Access junction	No	3		
18	50mm BSP adaptor	No	2		
	<u>PVC gulley</u>				
19	110mm Gulley trap with O, P, Q or S outlet, plain gulley head and grating, jointed to 110mm PVC pipe, including excavated for, bedding on and encasing in concrete 15 MPa / 19mm, not exceeding 0.75m deep to invert	No	1		
	<u>Sundries</u>				
20	Testing waste pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
21	15mm Pipes	m	32		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
22	15mm Fittings	No	21		
	<u>Brass</u>				
23	15mm Fullway gate valve	No	1		
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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<p><u>"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>				
2	On Doors (Internal)	m2	28		
	<u>Three coats matt varnish</u>				
3	On doors (External)	m2	14		
	<u>ON METAL</u>				
	<p><u>Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>				
4	On door frames	m2	6		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	14		
7	On windows with burglar bars	m2	8		
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	M4				
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	PAINTWORK				
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD				

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PAINTWORK

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Extra over trench and hole excavations in earth for excavation:</u>				
6	Soft rock	m3	3		
7	Hard rock	m3	3		
	<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	28		
	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	36		
	<u>Keeping excavations free of water:</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m3	5		
12	Backfilling to trenches, holes, etc.	m3	3		
	<u>Compaction of surfaces:</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	16		
Carried to Collection				R	
Section No. 6					
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EARTHWORKS					
PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

14	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	24		
15	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	15		
	<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO Density tests	No	5		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	17		
18	To bottom of concrete aprons	m2	24		
19	To bottoms and sides of trenches, etc.	m2	16		
20	To bottom and sides of pit	m2	43		
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PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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EARTHWORKS

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EARTHWORKS

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CLUSTER 11
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>25Mpa/19mm Concrete:</u>				
7	Concrete base Slab in Pit	m3	2		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	59		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	24		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	24		
	<u>Permanent formwork to soffits:</u>				
12	Soffit of slab on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	43		
13	Leave or form 500mm diameter opening in top of floor slab	No	5		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	65		
Carried to Collection				R	
Section No. 6 GR4 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 6</u></p> <p><u>BILL NO.3</u></p> <p><u>MASONRY</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>BRICKWORK</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>Hollow walls etc.:</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 "Brixeal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p>			
	Carried to Collection		R	
	<p>Section No. 6</p> <p>GR4</p> <p>Bill No. 3</p> <p>MASONRY</p> <p>PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>			

Face bricks:

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing:

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SAMPLES

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

FOUNDATIONS

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

1	One brick walls	m2	30
2	One brick walls in pit	m2	26
3	4Half brick corbelling in pit	m	19

FACE BRICKWORK

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

4	Extra over brickwork for face brickwork in foundation	m2	4
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SUPERSTRUCTURE

FACE BRICKWORK

Carried to Collection

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MASONRY

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:

5	Half brickwork for face brick walls pointed both sides	m2	17
6	One brickwork for face brick walls pointed both sides	m2	78
7	Extra over brickwork for face brickwork in beamfilling	m2	3
8	Fair raking and cutting	m	9

Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:

9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	5
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4
10	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4
11	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	2

BRICKWORK SUNDRIES

Brick reinforcement:

12	75mm Wide reinforcement built in horizontally	m	12
13	150mm Wide reinforcement built in horizontally	m	641

Turning pieces:

14	220mm Wide turning piece to lintel etc	m	6
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Bill No. 3

MASONRY

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Galvanised wire ties etc.:</u>				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	20		
	<u>Prestressed fabricated lintels:</u>				
16	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	6		
	<u>Ventilation bricks:</u>				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	12		
Carried to Collection					
Section No. 6 GR4 Bill No. 3 MASONRY PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					R

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TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

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GR4

Bill No. 3

MASONRY

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course:</u>			
1	In walls	m2	3	
	<u>One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:</u>			
2	Under surface beds	m2	21	
3	Aprons and ramps	m2	28	
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
4	Around steel windows and door frames.	m	16	
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	Section No. 6			
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	WATERPROOFING			
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	34	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	34	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5	
	Carried to Collection			
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	ROOF COVERINGS			
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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Pressed fibre-cement:

- | | | | | |
|---|--|---|----|--|
| 7 | 15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips | m | 26 | |
|---|--|---|----|--|

DOORS, ETC.

Wrought meranti doors hung to steel frames:

- | | | | | |
|---|--|----|---|--|
| 8 | 44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1) | No | 1 | |
| 9 | 44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1) | No | 4 | |

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Bill No. 6

CARPENTRY AND JOINERY

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

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Bill No. 6

CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>"Buchel" or similar approved</u>				
5	Code B3227 SS 200 x 22mm pull handles fixed back to back	Pairs	1		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>"Union" or similar approved:</u>				
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberley-Clark" or Simlilar:</u>				
7	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5		
	<u>Stainless steel:</u>				
8	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	3		
Carried to Collection					R
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Bill No. 7					
IRONMONGERY					
PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

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Bill No. 7

IRONMONGERY

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Bill No. 7

IRONMONGERY

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Section No. 6

Bill No. 8

METALWORK

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GR4

Bill No. 8

METALWORK

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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	31	
	<u>WALL PLASTER</u>			
	<u>Cement Plaster on walls</u>			
2	On Interior sides of Pit walls	m2	38	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	31	
4	On internal textured plaster walls and floors in pit	m2	38	
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	Section No. 6			
	GR4			
	Bill No. 9			
	PLASTERING			
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD			

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INSPECTION BY ENVIRO-LOO/SUPPLIER

- 3 Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.

Item

White glazed fireclay or vitreous china coupling with SABS specification 497 in

- 4 Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxysilicone sealant where basin meets wall.
 • Material: Vitreous China
 • Basin code: (ATLBASWHU0500UE)
 • Height: 500mm
 • Width: 410mm
 • Depth: 480mm.

No

1

- 5 Elbow taps

No

1

FITTINGS

- 6 19mm chrome plated push button taps to wash troughs
- 7 Ref. 515/053232H21 elbow action mixer
- 8 Ref 301-32 C.P. slotted waste plug and chain
- 9 32 x 40mm Bottle trap

No

1

No

1

No

2

No

2

SANITARY PLUMBING

uPVC pipes

- 10 50mm Pipes

m

30

Carried to Collection

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Section No. 6

GR4

Bill No. 10

PLUMBING AND DRAINAGE

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

11	50mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
12	50mm Bend	No	3		
13	50mm Access bend	No	2		
14	50mm Junction	No	2		
15	50mm Access junction	No	3		
16	50mm BSP adaptor	No	2		
	<u>PVC gulley</u>				
17	110mm Gulley trap with O, P, Q or S outlet, plain gulley head and grating, jointed to 110mm PVC pipe, including excavated for, bedding on and encasing in concrete 15 MPa / 19mm, not exceeding 0.75m deep to invert	No	1		
	<u>Sundries</u>				
18	Testing waste pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
19	15mm Pipes	m	32		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
20	15mm Fittings	No	21		
	<u>Brass</u>				
21	15mm Fullway gate valve	No	1		
	<u>Sundries</u>				
22	Testing water pipe system		Item		
Carried to Collection				R	
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GR4					
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PLUMBING AND DRAINAGE					
PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<p><u>"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>				
2	On Doors (Internal)	m2	36		
	<u>Three coats matt varnish</u>				
3	On doors (External)	m2	14		
	<u>ON METAL</u>				
	<p><u>Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>				
4	On door frames	m2	3		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	12		
7	On windows with burglar bars	m2	6		
	Carried to Collection			R	
	Section No. 6				
	GR4				
	Bill No. 12				
	PAINTWORK				
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD				

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TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavation exceeding 1,5m deep	m2	40		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
7	Under floors, steps, paving, etc	m3	25		
8	Backfilling to trenches, holes, etc	m3	4		
	<u>Soil poisoning and insecticide</u>				
9	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	25		
10	To bottoms and sides of trenches etc	m2	38		
	<u>15Mpa / 19mm Concrete</u>				
11	Strip footings	m3	3		
12	Platform surface beds cast in panels	m3	4		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
13	Platform surface beds	m2	25		
	<u>Brickwork of NFP bricks in class II mortar</u>				
14	One brick walls	m2	46		
	<u>Brickwork reinforcement</u>				
15	150mm Wide reinforcement built horizontally	m	142		
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Section No. 7					
EXTERNAL WORKS					
Bill No. 1					
RAINWATER STORAGE TANKS					
PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Galvanised hoop iron cramps, ties, etc.:</u>				
16	30 x 1,6mm Tie secured around tank and 4 times built into concrete (Total for one tank = 12 meters).	No	16		
	<u>Facebricks (FBS) prime cost of R 7 000.00 per thousand excluding VAT delivered to the site pointed with square ruled recessed horizontal and vertical joints:</u>				
17	Extra over brickwork for face brickwork	m2	48		
	<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>				
18	Coping on top of one brick wall	m	40		
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>				
19	In walls	m2	9		
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
20	Under surface beds	m2	25		
	<u>"JoJo" approved SANS PVC water tanks</u>				
21	2500 Litre polyethylene rotomoulded vertical water storage tank complete with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a doublestrand of 4mm diameter galvanised wire embedded into concrete. (Note: Tank to be filled with water before Practical Completion).	No	4		
Carried to Collection					
Section No. 7 EXTERNAL WORKS Bill No. 1 RAINWATER STORAGE TANKS PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					R

TAPS, VALVES, ETC.

- 22 Approved 15mm standard brass hose bibtap with wingnut, lining and 15mm hose union, manufactured in accordance with SANS 226:2009 Type 2 (BS 1010).

No

4

LOCKS

The following locks are to be suitable for master and grand master key operation

"Dorma" or similar approved

- 23 50mm Brass padlock with 28mm Stainless Steel shackle.

No

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Carried to Collection

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Section No. 7

EXTERNAL WORKS

Bill No. 1

RAINWATER STORAGE TANKS

PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD

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CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>				
5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	77		
	<u>Compaction of surfaces</u>				
6	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	258		
	<u>Soil poisoning</u>				
7	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in theproportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m'on cleared ground	m2	258		
	<u>60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:</u>				
8	Paving to toilet areas etc to falls	m2	258		
9	Fig. 7 kerbs to sides of paving	m	410		
10	15Mpa/19mm unreinforced concrete in haunching	m3	18		
Carried to Collection					R
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CLUSTER 11
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 7</u>			
	<u>BILL NO. 3</u>			
	<u>STORMWATER CONTROL</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p>			
	<u>Earthworks</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	120	
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, paving, etc	m2	120	
3	Extra over surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	23	
4	Extra over trench or hole for excavations in soft rock	m3	8	
5	Extra over trench or hole for excavations in hard rock	m3	5	
6	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	120	
	Carried to Collection			
	Section No. 7			
	EXTERNAL WORKS			
	Bill No. 3			
	STORMWATER CONTROL			
	PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD			

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TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

7	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1m2	m2	120		
	<u>Reinforced Concrete</u>				
8	25Mpa/19mm Mass concrete in V-shaped channel 2000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, with and including one layer of ref.193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	120		
9	Extra for fair open end	No	8		
10	Extra for fair stopped end	No	8		
11	Extra for angle intersection	No	18		
	<u>The following in soakaway:</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
12	French drains	m3	13		
	<u>Risk of collapse of excavations</u>				
13	Sides of excavations for french drains not exceeding 1,5m deep	m2	30		
14	Sides of excavations for french drains exceeding 1,5m deep	m2	4		
	<u>Extra over all excavations for carting away</u>				
15	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	9		
Carried to Collection				R	
Section No. 7 EXTERNAL WORKS Bill No. 3 STORMWATER CONTROL PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

CLUSTER 11
TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Keeping excavations free of water</u>				
16	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>				
17	In backfilling to top of french drain	m3	4		
	<u>Stone pitching of approximately 20-75mm diameter river stones tightly packed</u>				
18	In french drains	m3	9		
	<u>"Bidem B3" filter fabric with 200mm laps</u>				
19	Around stone filling in sub-soil french drains	m2	40		
	<u>UPVC perforated drain pipes (SANS 791) normal duty with socket and rubber ring type including all excavations, backfilling, Class C bedding, compaction, etc in accordance with SANS 1200</u>				
20	110mm Pipes laid in and including trenches not exceeding 1m deep	m	46		
	<u>Extra over uPVC pipes for fittings</u>				
21	110mm Stop end	No	1		
	<u>Cast iron plain ended pipes with "Besaans du Plessis type SSN" couplings</u>				
22	100mm Inspection pipe, 1200mm long	No	2		
	<u>Sundries</u>				
23	100mm Cast iron "ABC" cleaning eye inserted in top inspection pipe	No	2		
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SUNDRIES

24	Extra over excavations in earth for sewer trenches, etc for excavating in soft rock	m3	8		
25	Extra over excavations in earth for sewer trenches, etc for excavating in hard rock	m3	4		
26	100mm Cast iron cleaning eye fixed to 110mm PVC drain pipe, including 350 x 350 x 75mm thick in-situ 15 MPa/19mm mass concrete surround, the whole finished smooth on all exposed faces with exposed angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	2		
27	Testing drainage pipe system		Item		

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Bill No. 3

STORMWATER CONTROL

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STORMWATER CONTROL

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STORMWATER CONTROL

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TENDER NO: TMT-DBE-22/23-SAFEB5-LPC11B
CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 7</u>			
	<u>BILL NO. 4</u>			
	<u>FENCING</u>			
	<p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>Tenderers are advised to study the Department of Public Works - Construction works: General Specification (PW371-A) and Construction works: Particular Specification (PW371-B) before pricing this bill</p> <p>-----</p> <p><u>Site clearance</u></p>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	475	
	<u>CONCRETE</u>			
2	Base for intermediate post, size 450 x 450 x 600mm including excavations, 15Mpa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork	No	160	
3	Base for corner or gate post, size 450 x 450 x 600mm including excavations, 15Mpa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork as per schedule of rates 1A	No	8	
	Carried to Collection			
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

4	Base for stay, size 450 x 760 x 600mm including excavations, 15Mpa/38mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork as per schedule rates 1A	No	16		
<u>METAL WORK</u>					
<u>Mild Steel Gates</u>					
5	Single pedestrain gate size 1.35 x 1.8m high formed of 50mm diameter x 2.8mm thick galvanised mild steel pipe framing all round complete with one 50mm diameter x 2.8mm thick galvanised mild steel pipe diagonal brace all neatly mitred and welded at intersections, the gate covered with 50 x 50 x 2.5mm galvanised welded mesh secured with 2.5mm galvanised binding wires each strand formed of twisted at 150mm centres mechanically strained between and securely fixed to gate security wire in barbed straining wires with and including two standard type pin collar hinges bolted onto gate post(elsewhere) including drilling holes through gate post and other style with purpose mild steel plate locking device and hand-hole opening formed of 10mm diameter mild steel bar 320mm girth bent to semi-circular shape and welded on	No	1		
6	200mm galvanised heavy duty barrel bolt welded onto gate style	No	2		
7	Locking chain 600mm long with 50mm links	No	1		
8	63mm brass five pin tumbler padlock with two keys	No	1		
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Section No. 7 EXTERNAL WORKS Bill No. 4 FENCING PREPARED BY: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

9	Security fencing 1.8m high formed of 50 x 50 x 2mm galvanised welded mesh secured with 2.5mm galvanised binding to and including 4 strands of straining wire, each strand formed of twisted double strand 1.6mm thick galvanised wires incorporating 3 barbs in every twist at 150mm centres mechanically strained between straining and/or gate and corner posts at maximum 30m centres with one end passed through holes and securely tied to posts and other end securely tied to and including eyebolts bolted onto posts, each strand tied at maximum 3m centres to intermediate posts (elsewhere) with and including 2mm galvanised binding wire, the fence complete with barbed straining wires and including 2mm galvanised binding wires.	m	475		
10	Standard Post 1.8m long, the post 6 times holed for straining wires or eyebolts including drilling post into ground	No	160		
11	Corner post 1800mm long overall, complete with stays embedded into concrete blocks, all welding, bolts, etc	No	22		
12	Gate post 1.8m long overall, complete with stays embedded into concrete blocks, all welding, bolts, etc	No	2		

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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

	<u>Risk of collapse of excavations:</u>				
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	20		
	<u>Keeping excavations free of water:</u>				
6	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
7	Behind retaining walls.	m3	5		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surface under floors, behind retaining walls etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	11		
	<u>Soil poisoning and insecticide</u>				
9	To bottoms and sides of trenches etc	m2	38		
	<u>Prescribed density tests on filling:</u>				
10	Modified AASHTO Density tests	No	4		
	<u>15Mpa/19mm Concrete:</u>				
11	Surface blinding under footings	m3	1		
	<u>25Mpa/19mm Concrete:</u>				
12	Strip footings	m3	3		
13	Cavity walls	m3	1		
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CONSTRUCTION OF SANITATION FACILITIES
AT GAMMALEBESE PRIMARY SCHOOL

TEST CUBES

14	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5
	<u>Mesh Reinforcement (measure nett):</u>		
15	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	12
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
16	330mm Thick cavity walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured)	m2	14
	<u>Brick reinforcement:</u>		
17	230mm Wide reinforcement built in horizontally	m	169
	<u>Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:</u>		
18	Extra over brickwork for face brickwork in externally	m2	9
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>		
19	Extra over brickwork for brick-on-edge header course of one brick wall bedded and jointed in cement mortar and pointed on two sides as described	m	18
	<u>Openings in brickwork</u>		
20	Leave or form 32mm weephole through one brickwall	No	12

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RETAINING WALLS

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