

PREAMBLES FOR TRADES

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

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

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

GENERAL

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

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- 1 Definitions and interpretation (clause 1)

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

Item

Objective and Preparation (A2 to A14)

- 2 Offer acceptance and performance (clause 2)

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

Item

Carried to Collection

R

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY 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		
6	Site representative (clause 6) F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES				
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

7 Compliance with regulations (clause 7)

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

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.

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."

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.

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.

Item

Carried to Collection

R

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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		
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES</p> <p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>			R	

21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p>	Item	
22	<p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p>	Item	
23	<p>Contractor's Domestic Sub-Contractors (Clause 23)</p> <p>F:..... V:..... T:.....</p>	Item	
<u>Completion (A24-A30)</u>			
24	<p>Practical completion (clause 24)</p> <p>F:..... V:..... T:.....</p>	Item	
25	<p>Works completion (clause 25)</p> <p>F:..... V:..... T:.....</p>	Item	
26	<p>Final completion (clause 26)</p> <p>F:..... V:..... T:.....</p>	Item	
27	<p>Latent defects liability period (clause 27)</p> <p>F:..... V:..... T:.....</p>	Item	
Carried to Collection			R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES</p> <p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:..... Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES				
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

33	Recovery of expense and loss (clause 33) F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34) F:..... V:..... T:..... 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 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	Item		
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		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

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		
	<u>THE SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42) F:..... V:..... T:.....	Item		
	<u>42.1 CONTRACTING AND OTHER PARTIES</u> 42.1.1 Employer: The Mvula Trust 42.1.2 Principal Agent: SRSQS Quantity Surveyors [Pty] Ltd			
	Carried to Collection		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES			
	Prepared By: 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

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

Carried to Collection

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

42.2.7 For the works **as a whole**. Intended date of practical completion and the penalty per calendar day

Intended Date of Practical Completion: 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)

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

Carried to Collection

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

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”

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

Carried to Collection

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

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:.....

Item

45 Provisional bills of quantities (B2.2)

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

N/A

46 Availability of construction documentation (B2.3)

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

Item

47 Interests of agents (B2.4)

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

Item

48 Priced documents (B2.5)

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

Item

Carried to Collection

R

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
50	Defined works area (B3.1) F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
	Existing premises occupied (B3.4) F:..... V:..... T:.....			
	Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.			
	Previous work - dimensional accuracy (B3.5) F:..... V:..... T:.....			
	Previous work - defects (B3.6) F:..... V:..... T:.....			
53	Services - known (B3.7) F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES				
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

54	Services - unknown (B3.8) F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9) F:..... V:..... T:.....	Item		
56	Articles of value (B3.10) F:..... V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
57	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
58	Management of the works (B4.1) F:..... V:..... T:.....	Item		
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES				
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

Samples, Shop Drawings and Manufacturer's Instructions (B5)

63 Samples of materials (B5.1)

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

Item

64 Workmanship samples (B5.2)

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

Item

65 Shop drawings (B5.3)

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

Item

66 Compliance with Manufacturer's Instructions (B5.4)

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

Item

Temporary works and plant (B6)

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

Carried to Collection

R

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

[illegible]

Prime cost amounts (B8)

78 Responsibility for prime cost amounts (B8.1)

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

Item

Attendance on N/S Subcontractors (B9)

79 General attendance (B9.1)

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

Item

80 Special attendance (B9.2)

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

Item

81 Commissioning - Fuel, water and power (B9.3)

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

Item

Financial aspects (B10)

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

Carried to Collection

R

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

84	Payment certificate cash flow (B10.4) F:..... V:..... T:..... <u>General (B11)</u>	Item	
85	Protection of works (B11.1) F:..... V:..... T:.....	Item	
86	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item	
87	Security of the Works (B11.3) 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	
Carried to Collection			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
92	Vermin (B11.8) F:..... V:..... T:.....	Item		
93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
<u>Schedule of variables (B12)</u>				
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No			
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES				
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

[illegible]

<p>12.1.13 Offices (B6.4.3)</p> <p>Specific requirements:</p> <p>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.</p>			
<p>12.1.14 Main notice board (B6.5)</p>	YES		
<p>12.1.15 Subcontractors notice board (B6.6)</p> <p>A notice board is required</p>	Yes		
<p>12.1.16 Water (B7.2)</p> <p>Alternative Selected: A</p>			
<p>12.1.17 Electricity (B7.3)</p> <p>Alternative selected: A</p>			
<p>12.1.18 Telecommunications (B7.4)</p>			
<p>12.1.19 Ablution facilities (B7.5)</p> <p>Alternative selected: A</p>			
<p>12.1.20 Protection of existing/sectionally occupied works (B11.2)</p>			
Carried to Collection		R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES</p>			
<p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>			

98	Site instructions Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor F: V: T:	Item		
99	Black economic empowerment and training F: V: T:	Item		
100	Proprietary branded products F: V: T:	Item		
101	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F: V: T: The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item		
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		
Carried to Collection			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

103	<p>Labour record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week</p>	Item		
104	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>	Item		
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>	Item		
Carried to Collection			R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES</p> <p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>				

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

106	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>	Item		
107	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <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		
Carried to Collection			R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES</p> <p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>				

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 provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained</p> <p>The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES</p> <p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>
-----	--

Item

R

109 HIV/AIDS Awareness

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

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Item

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

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Carried to Collection

R

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

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

Section No. 1			
Bill No. 1			
PRELIMINARIES			
<u>COLLECTION</u>			
Total Brought Forward from Page No.	Page No	Amount	
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
Carried Forward		R	
Section No. 1			
PRELIMINARIES AND GENERAL			
Bill No. 1			
PRELIMINARIES			
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

[illegible]

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing

dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc.

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing.

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork.

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary.

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc).

DEMOLITIONS

DEMOLITIONS OF EXISTING TOILET STRUCTURES

- | | | | | |
|---|--|----|---|--|
| 1 | Demolish existing pit toilet structures including hacking up and removing foundations and surface beds, doors, windows and door frames, ironmongery and plumbing fittings complete. All pits are to be filled with soil. | No | 2 | |
|---|--|----|---|--|

Carried to Collection

R

Section No. 2

ALTERATIONS

Bill No. 1

ALTERATIONS AND DEMOLISHING

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

<u>ALTERATIONS</u>					
<u>Taking out and removing doors, windows, etc including threshold, sills, etc (building up openings elsewhere)</u>					
2	Timber single door and steel frame 813 x 2032mm high	No	4		
3	Steel security gate 900 x 2100mm high	No	4		
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and preparing pipes for new fittings(e/m) making good floor and wall finishes(making good and wall finishes e/m)</u>					
4	Vitreous china WC pan with cistern	No	4		
5	Vitreous china basin	No	2		
<u>SERVICING OF DOORS AND WINDOWS</u>					
6	Replace existing damaged or missing brass window stay	No	16		
<u>CHEMICAL TREATMENT</u>					
<u>Termite Post Construction Treatment</u>					
7	Under floors etc including drilling of surfaces, brickwalls etc, and patching up to match existing finishes and supplying of a five (5) year guarantee certificate	m2	28		
<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	4		
<u>LOCKS</u>					
Carried to Collection				R	
Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLISHING					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Approved:</u>				
9	Three lever mortice lockset	No	1		
10	Indicator lockset	No	4		
	<u>DOORSTOPS</u>				
	<u>Approved:</u>				
11	38mm Diameter rubber door stop plugged	No	5		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>"Union" or similar approved:</u>				
12	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	1		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberley-Clark" or Simlilar:</u>				
13	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4		
	<u>Stainless steel:</u>				
14	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
	<u>FLOOR AND WALLS SEALERS</u>				
	<u>Minimum two coats approved epoxy coat:</u>				
15	On screed	m2	28		
Carried to Collection				R	
Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLISHING					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>				
16	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	4		
17	Elbow taps	No	4		
	<u>FITTINGS</u>				
18	19mm chrome plated push button taps to wash troughs	No	4		
	<u>PAINTWORK</u>				
	<u>ON WOOD</u>				
	<u>Undercoat and minimum 2 coat gloss enamel:</u>				
19	On Doors	m2	14		
	<u>ON METAL</u>				
	<u>Undercoat and minimum 2 coat gloss enamel:</u>				
20	On door frames	m2	2		
21	On gates (Measured over the full flat area of both sides)	m2	4		
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel:</u>				
22	On windows with burglar bars	m2	5		
Carried to Collection					R
Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLISHING					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	51	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	51	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Trenches	m3	6	
4	Pit	m3	15	
5	For aprons thickening	m3	2	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	2	
7	Hard rock	m3	2	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	20	
	Carried to Collection			
	Section No. 3			
	F2			
	Bill No. 1			
	EARTHWORKS			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	28		
	<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	2		
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	12		
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	23		
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	10		
	<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO Density tests	No	5		
	<u>SOIL POISONING</u>				
	Carried to Collection			R	
	Section No. 3 F2 Bill No. 1 EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	52		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	23		
	<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	27		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	40		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	52		
Carried to Collection				R	
Section No. 3					
F2					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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	26		
---	-----------------	----	----	--	--

FACE BRICKWORK

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

2	Extra over brickwork for face brickwork in foundation	m2	2		
---	---	----	---	--	--

SUPERSTRUCTURE

FACE BRICKWORK

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

3	Half brickwork for face brick walls pointed both sides	m2	4		
4	One brickwork for face brick walls pointed both sides	m2	58		
5	Extra over brickwork for face brickwork in beamfilling	m2	2		
6	Fair raking and cutting	m	16		

Carried to Collection

R

Section No. 3
F2
Bill No. 3
MASONRY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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:

7	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
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	3

BRICKWORK SUNDRIES

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	21
11	150mm Wide reinforcement built in horizontally	m	605

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	5
----	--	---	---

Galvanised wire ties etc.:

13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	10
----	--	----	----

Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	5
----	--	---	---

Ventilation bricks:

15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	5
----	---	----	---

Carried to Collection

R

Section No. 3
F2
Bill No. 3
MASONRY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	25	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	25	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	5	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7	
6	Extra over rainwater pipe for eaves offset	No	2	
	Carried to Collection			
	Section No. 3			
	F2			
	Bill No. 5			
	ROOF COVERINGS			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

7	Ditto ,for shoe	No	2
Section No. 3 F2 Bill No. 5 ROOF COVERINGS			R
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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	2
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

Carried to Collection

R

Section No. 3

F2

Bill No. 6

CARPENTRY AND JOINERY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No			Quantity	Rate	Amount
	<u>SECTION 3</u>				
	<u>BILL NO.7</u>				
	<u>IRONMONGERY</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	<u>CATCHES, CABIN, HOOKS, ETC</u>				
	<u>Approved:</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	4		
	<u>LOCKS</u>				
	<u>Approved:</u>				
2	Three lever mortice lockset	No	1		
3	Indicator lockset	No	3		
	<u>DOORSTOPS</u>				
	<u>Approved:</u>				
4	38mm Diameter rubber door stop plugged	No	4		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>"Union" or similar approved:</u>				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Carried to Collection				
	Section No. 3				
	F2				
	Bill No. 7				
	IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

	<u>Push Plate</u>				
6	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>				
7	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		
8	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		
	BATHROOM FITTINGS				
	<u>"Kimberley-Clark"or Simlilar:</u>				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	3		
	<u>Stainless steel:</u>				
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome platted screws.	No	2		
	Carried to Collection			R	
	Section No. 3 F2 Bill No. 7 IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

Steel gates and frames:

6

Purpose made square hollow section mild steel security gate, size 813 x 2032mm High

No

2

Carried to Collection

Section No. 3

F2

Bill No. 8

METALWORK

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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

5	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
---	---	----	---

6	Elbow taps	No	1
---	------------	----	---

FITTINGS

7	19mm chrome plated push button taps to wash troughs	No	1
---	---	----	---

Sundries

8	Stainless-steel 24L SHE-BIN plugged to walls	No	2
---	--	----	---

Carried to Collection

Section No. 3

F2

Bill No. 10

PLUMBING AND DRAINAGE

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:</u>			
1	On fascias and barge boards	m2	7	
	<u>ON WOOD</u>			
	<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>			
2	On Doors (Internal)	m2	14	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	14	
	Carried to Collection		R	
	Section No. 3 F2 Bill No. 12 PAINTWORK			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

ON METAL

"Plascon Velvaglo Satin" or similar approved 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.

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	5
7	On windows with burglar bars	m2	2

Carried to Collection

Section No. 3
F2
Bill No. 12
PAINTWORK

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

Bill No	SECTION SUMMARY - F2	Page No	Amount
1	EARTHWORKS	41	
2	CONCRETE,FORMWORK AND REINFORCEMENT	44	
3	MASONRY	48	
4	WATERPROOFING	49	
5	ROOF COVERINGS	52	
6	CARPENTRY AND JOINERY	55	
7	IRONMONGERY	58	
8	METALWORK	61	
9	PLASTERING	62	
10	PLUMBING AND DRAINAGE	65	
11	GLAZING	66	
12	PAINTWORK	69	
Carried to Final Summary			R
Section No. 3 F2			
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	80	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	80	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Trenches	m3	9	
4	Pit	m3	30	
5	For aprons thickening	m3	3	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	4	
	<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	37	
	Carried to Collection			
	Section No. 4			
	M4			
	Bill No. 1			
	EARTHWORKS			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

[illegible]

[illegible]

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	23		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	31		
	<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	35		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	46		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	68		
Carried to Collection				R	
Section No. 4					
M4					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

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	39	
---	-----------------	----	----	--

FACE BRICKWORK

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

2	Extra over brickwork for face brickwork in foundation	m2	3	
---	---	----	---	--

SUPERSTRUCTURE

FACE BRICKWORK

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

3	Half brickwork for face brick walls pointed both sides	m2	17	
---	--	----	----	--

4	One brickwork for face brick walls pointed both sides	m2	82	
---	---	----	----	--

5	Extra over brickwork for face brickwork in beamfilling	m2	4	
---	--	----	---	--

6	Fair raking and cutting	m	16	
---	-------------------------	---	----	--

Carried to Collection

R

Section No. 4
M4
Bill No. 3
MASONRY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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:

7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	9
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	7
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	4

BRICKWORK SUNDRIES

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	21
11	150mm Wide reinforcement built in horizontally	m	649

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	9
----	--	---	---

Galvanised wire ties etc.:

13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	17
----	--	----	----

Ventilation bricks:

14	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	10
----	---	----	----

Carried to Collection

R

Section No. 4
M4
Bill No. 3
MASONRY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	45	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	45	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	9	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7	
6	Extra over rainwater pipe for eaves offset	No	2	
	Carried to Collection			
	Section No. 4			
	M4			
	Bill No. 5			
	ROOF COVERINGS			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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 |
| 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 |

Carried to Collection

R

Section No. 4

M4

Bill No. 6

CARPENTRY AND JOINERY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Push Plate</u>				
6	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>				
7	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		
8	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		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberley-Clark" or Simlilar:</u>				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5		
	<u>Stainless steel:</u>				
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
Carried to Collection				R	
Section No. 4					
M4					
Bill No. 7					
IRONMONGERY					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls:</u>			
1	Frame for door 813 x 1882mm high	No	4	
2	Frame for door 900 x 2100mm high	No	1	
	<u>1,6mm Double rebated frames suitable for one brickwalls:</u>			
3	Frame for door 813 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	7	
5	Window type NE 7,1022 x 654mm high including burglar bars	No	4	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames:</u>			
6	Purpose made square hollow section mild steel security gate, size 900 x 2090mm High	No	2	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	M4			
	Bill No. 8			
	METALWORK			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

INSPECTION BY ENVIRO-LOO/SUPPLIER

- 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

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

- 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 Elbow taps

No 1

FITTINGS

- 8 19mm chrome plated push button taps to wash troughs

No 1

Carried to Collection

R

Section No. 4
M4
Bill No. 10
PLUMBING AND DRAINAGE

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:</u>			
1	On fascias and barge boards	m2	10	
	<u>ON WOOD</u>			
	<u>"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>			
2	On Doors (Internal)	m2	28	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	14	
	Carried to Collection			
	Section No. 4			
	M4			
	Bill No. 12			
	PAINTWORK			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

ON METAL

"Plascon Velvaglo Satin" or similar approved 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.

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	7
7	On windows with burglar bars	m2	5

Carried to Collection

Section No. 4
M4
Bill No. 12
PAINTWORK

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	110	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	110	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Trenches	m3	11	
4	Pits	m3	46	
5	For aprons thickening	m3	3	
	<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	53	
	Carried to Collection			
	Section No. 5			
	SD6			
	Bill No. 1			
	EARTHWORKS			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	108		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	40		
	<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		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	69		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	104		
Carried to Collection				R	
Section No. 5					
SD6					
Bill No. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

Carried Forward to Summary of Section No. 5

Section No. 5
SD6
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

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	54	
---	-----------------	----	----	--

FACE BRICKWORK

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

2	Extra over brickwork for face brickwork in foundation	m2	3	
---	---	----	---	--

SUPERSTRUCTURE

FACE BRICKWORK

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

3	Half brickwork for face brick walls pointed both sides	m2	17	
4	One brickwork for face brick walls pointed both sides	m2	107	
5	Extra over brickwork for face brickwork in beamfilling	m2	7	
6	Fair raking and cutting	m	22	

Carried to Collection

R

Section No. 5
SD6
Bill No. 3
MASONRY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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:

7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	13
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	9
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	8

BRICKWORK SUNDRIES

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	21
11	150mm Wide reinforcement built in horizontally	m	861

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	13
----	--	---	----

Galvanised wire ties etc.:

13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	26
----	--	----	----

Ventilation bricks:

14	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	14
----	---	----	----

Carried to Collection

R

Section No. 5
SD6
Bill No. 3
MASONRY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.5</u>			
	<u>ROOF COVERINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	65	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	65	
	<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	
6	Extra over rainwater pipe for eaves offset	No	2	
	Carried to Collection			
	Section No. 5			
	SD6			
	Bill No. 5			
	ROOF COVERINGS			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

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	6
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	2

Carried to Collection

R

Section No. 5
SD6
Bill No. 6
CARPENTRY AND JOINERY

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

	<u>Push Plate</u>			
6	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	2	
	<u>"Vaal Paragon" or similar approved:</u>			
7	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.	No	2	
8	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	2	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark"or Simlilar:</u>			
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	8	
	<u>Stainless steel:</u>			
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	4	
	Carried to Collection			R
	Section No. 5 SD6 Bill No. 7 IRONMONGERY			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

[illegible]

INSPECTION BY ENVIRO-LOO/SUPPLIER

- 5 Allow for two site visits to be made by the "enviro-loo" supplies to assist/support the contractor in the installation of the "enviro-loo" and a final inspection to ascertain the enviro-loo has been installed correctly at which time a Certificate of Compliance should be issued between end-user department and enviro-loo supplier

Item

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

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

No

1

- 7 Elbow taps

No

1

FITTINGS

- 8 19mm chrome plated push button taps to wash troughs

No

1

Sundries

- 9 Stainless-steel 24 SHE-BIN plugged to walls

No

2

Carried to Collection

R

Section No. 5

SD6

Bill No. 11

PLUMBING AND DRAINAGE

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:</u>			
1	On fascias and barge boards	m2	13	
	<u>ON WOOD</u>			
	<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>			
2	On Doors (Internal)	m2	42	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	28	
	Carried to Collection			
	Section No. 5			
	SD6			
	Bill No. 13			
	PAINTWORK			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

ON METAL

"Plascon Velvaglo Satin" or similar approved 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.

4	On door frames	m2	15
5	On gates (Measured over the full flat area of both sides)	m2	16
6	On gutters and down pipes	m	14
7	On windows with burglar bars	m2	6

Carried to Collection

Section No. 5
SD6
Bill No. 13
PAINTWORK

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

Bill No	SECTION SUMMARY - SD6	Page No	Amount
1	EARTHWORKS	105	
2	CONCRETE, FORMWORK AND REINFORCEMENT	108	
3	MASONRY	112	
4	WATERPROOFING	113	
5	ROOF COVERINGS	116	
6	CARPENTRY AND JOINERY	119	
7	IRONMONGERY	122	
8	METALWORK	123	
9	IRONMONGERY	126	
10	PLASTERING	127	
11	PLUMBING AND DRAINAGE	130	
12	GLAZING	131	
13	PAINTWORK	134	
Carried to Final Summary			R
Section No. 5 SD6			
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 1</u>			
	<u>WATER SUPPLIES</u>			
	<u>Class 10 HDPe type IV pipes</u>			
1	40mm Pipes laid in and including trenches not exceeding 1m deep	m	19	
2	50mm Pipes laid in and including trenches not exceeding 1m deep	m	182	
	<u>Extra over Class 10 HDPE type IV pipes for fittings</u>			
3	40mm Elbow	No	15	
4	40mm Reducer	No	4	
5	40mm Bend	No	8	
6	50mm Reducer	No	4	
7	50mm Bend	No	8	
8	50mm Threaded adaptor	No	3	
	<u>Galvanised medium steel pipes with screwed and socketed joints</u>			
9	50mm Pipes	m	15	
	<u>Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings</u>			
10	50mm Tee	No	2	
11	50mm Bush	No	2	
12	50mm Elbow	No	2	
	Carried to Collection			
	Section No. 6			
	EXTERNAL WORKS			
	Bill No. 1			
	WATER SUPPLIES			
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Galvanised medium normalized mild steel piping</u>				
13	25mm Standpipes	m	6		
	<u>Extra over galvanised piping for galvanised mild steel fittings</u>				
14	25mm Fittings	No	8		
	<u>Valve boxes</u>				
15	600 x 600mm Stopcock box complete as per detail drawing "Valve chamber" including 400 x 400 cast iron cover and frame depth not exceeding 750mm internally.	No	1		
	<u>Sundries</u>				
16	300 x 300 x 50mm Precast concrete pipeline marker Slab set in Ground	No	1		
17	Cutting into existing water pipe	No	1		
	<u>Equipping of Borehole</u>				
18	Borehole Disinfection	No	2		
19	Borehole protection and marking	No	2		
20	Submersible Borehole Pump 2.2kw, 3 Phase, 380V, 3HP, 3.5bar, 2900rpm. Capacity - 20L/min at a depth of 165m. Fluid Temperature 0°C-40°C, IP68. Class B insulation, stainless steel casing, Impeller & diffuser, non-return valve: Thermoplastic resin PPO	No	2		
21	Electrical control board for the pumps and controls.	No	2		
	<u>Controls, Conduits, Etc.</u>				
22	2.5mm ² Red house wire.	m	40		
23	2.5mm ² Black house wire.	m	40		
24	2.5mm ² Control cable.	m	40		
	Carried to Collection			R	
	Section No. 6 EXTERNAL WORKS Bill No. 1 WATER SUPPLIES				
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

25	2.5mm2 Earth cable.	m	40
26	Cable joints for 2.5mm2 cable.	No	25
27	25mm PVC conduit laid in ground, including excavations and backfilling.	m	40
<u>Testing</u>			
28	3 x 90min Step Drawdown Tests	Hrs	10.00
29	3 x 90min Recovery Tests	Hrs	10.00
30	1 x 24hr Constant Discharge Test	Hrs	48.00
31	1 x 24hr Recovery Test	Hrs	48.00
32	Water Quality Analysis (Lab)	No	2
33	Yield testing/ capacity	No	2
34	Water Management Recommendation	No	2
<u>Commissioning and documentation</u>			
35	Pipework pressure testing, commissioning and COCs	No	1

Carried to Collection

R

Section No. 6
EXTERNAL WORKS
Bill No. 1
WATER SUPPLIES

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

Section No. 6

Bill No. 1

WATER SUPPLIES

COLLECTION

Total Brought Forward from Page No.

**Page
No**

136

137

138

Amount

Carried Forward to Summary of Section No. 6

Section No. 6
EXTERNAL WORKS
Bill No. 1
WATER SUPPLIES

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<u>Soil insecticide</u>				
8	To bottoms and sides of trenches, etc.	m2	22		
	<u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions.</u>				
9	Under surface beds	m2	6		
	<u>15Mpa/19mm Concrete</u>				
10	Blinding	m3	1		
	<u>25Mpa/19mm Concrete</u>				
11	Bases	m3	5		
12	Platform surface beds cast in panels	m3	8		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
13	Platform surface beds	m2	6		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
14	On top of bases	m2	6		
	<u>"Jojo" or equal approved SANS PVC water tanks</u>				
15	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	2		
	<u>Galvanized medium normalized mild steel piping</u>				
16	25mm Pipes	m	35		
17	50mm Pipes	m	85		
Carried to Collection				R	
Section No. 6 EXTERNAL WORKS Bill No. 2 WATER TANKS					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Extra over galvanised mild steel water supply pipes for Fittings

18	25mm Fittings.	No	8
19	50mm Elbows.	No	8
20	50mm Union.	No	8
21	50mm Reducing bush.	No	2
	<u>"Cobra Watertech" or other equal approved</u>		
22	15mm "Cobra Ref. 108LK" brass hose biptap.	No	2
23	50mm Fullway gate valve	No	2

TESTING

Testing of water tanks

24	Testing for tank		Item
----	------------------	--	------

The following in structural steel tank stands

25	40 x 40 x 3mm Hot rolled angle section bracing	kg	32.00
26	40 x 40 x 6mm Hot rolled angle section horizontal struts	kg	112.00
27	80 x 80 x 6mm Hot rolled angle section columns, base plates and pipe clamps	kg	458.00
28	125 x 75 x 10mm Hot rolled angle section floor beams	kg	132.00
29	125 x 75 x 20 x 2.5mm Cold rolled lipped channel floor joists	kg	288.00
30	30 x 6mm Cold rolled flat section bracing	kg	154.00
31	High strength friction grip bolts	kg	16.00
32	10mm Diameter U-shaped holding down bolt 250mm girth fixed to columns	No	24

Carried to Collection

R

Section No. 6
EXTERNAL WORKS
Bill No. 2
WATER TANKS

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

33 12mm Diameter L-shaped threaded anchor bolt 350mm
girth embedded in top of concrete

No

8

ON METAL

Undercoat and minimum 2 coat gloss enamel

34 Paint to structural steel

m

420

Carried to Collection

R

Section No. 6
EXTERNAL WORKS
Bill No. 2
WATER TANKS

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

	<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	276		
	<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 the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m ² on cleared ground	m2	276		
	<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	276		
9	Fig. 12 kerbs to sides of paving	m	460		
10	15Mpa/19mm unreinforced concrete in haunching	m3	24		
Carried to Collection					
Section No. 6 EXTERNAL WORKS Bill No. 3 PAVED WALKWAY					
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD					
				R	

[illegible]

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Reinforced Concrete

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	130
9	Extra for fair open end	No	7
10	Extra for fair stopped end	No	7
11	Extra for angle intersection	No	15

Carried to Collection

Section No. 6
EXTERNAL WORKS
Bill No. 4
STORMWATER CONTROL

Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD

R

	<u>Soil insecticide</u>				
7	To bottoms and sides of trenches etc	m2	605		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
8	Bases	m3	67		
	<u>FENCING</u>				
	<u>Steel palisade as per attached drawings complete,joined to brick columns and brickwalls, the fence painted on both sides (colour to architects)</u>				
9	Galvanised Steel palisade fence 1800mm high with pales formed of 30 x 30 x 2.0mm angle iron paling 1.8m high with devil fork effect on top and bottom with the dove tail fixed to 2,4m high posts size 76 x 76 x 2mm square tubing with closing pyramid caps on top posts at 3m centres min, with 40 x 40 x 2mm angle iron bearers placed 300mm from top paling and 300mm from bottom paling welded flash with the back of the posts as per manufacturers instructions fixed in position as indicated on the drawings	m	538		
	<u>GATES, ETC.</u>				
10	Sliding galvanised palisade gate of 75 x 75 mm mild steel framing size 5000 x 1800mm high vertically with spear head finish, each leaf with formed with bottom and top horizontal bearers of 60 x 30 x 2-2.5mm lipped and slotted channels fixed in position aligned with the brick plinth with 40 x 40 x 2.5-3mm hot rolled angles used for palisade paling slotted and welded at 100mm centres into the horizontal members with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys (LI)	No	1		
	Carried to Collection			R	
	Section No. 6 EXTERNAL WORKS Bill No. 5 FENCING				
	Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

11	<p>Pedestrian galvanised palisade gate of 60 x 60mm mild steel framing size 1500 x 1800mm high vertically with spear head finish, each leaf with formed with bottom and top horizontal bearers of 60 x 30 x 2-2.5mm C-channel and slotted channels fixed in position welded to 35 x 35mm galvanised steel post and with 40 x 40 x 2.5-3mm hot rolled angles used for palisade palling slotted and welded at 100mm centres into the horizontal members with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys and gate handles fixed to rectangular 1mm plate with swivel castors on opening sections and barrel bolts into paving</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON METAL</u></p> <p><u>Plascon Super Universal Enamel to exterior new galvanised(NW 620).Surface to be clean and dry. Apply Plascon Galvanised Iron Cleaner (GIC 1) to all bare galvanised areas. Rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water-free. Prime with one coat of Galvanised Iron Primer (GIP 1) and finish with two coats of Universal Enamel (NY 1/G)</u></p>	No	2		
12	<p>On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area) (LI)</p>	m2	1 957		
Carried to Collection					
<p>Section No. 6 EXTERNAL WORKS Bill No. 5 FENCING</p> <p>Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD</p>					R

SECTION SUMMARY - EXTERNAL WORKS			Page No	Amount
1	WATER SUPPLIES	139		
2	WATER TANKS	144		
3	PAVED WALKWAY	147		
4	STORMWATER CONTROL	150		
5	FENCING	154		
Carried to Final Summary			R	
Section No. 6 EXTERNAL WORKS				
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD				

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
KGOLOKGOTHLA LEDWABA SENIOR SECONDARY SCHOOL

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	31	
2	ALTERATIONS	37	
3	F2	70	
4	M4	101	
5	SD6	135	
6	EXTERNAL WORKS	155	
Sub Total (A)			R
Sub Total (B)			R
Provide 10% (TEN PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not required			R
Sub Total (C)			R
Add Value Added Tax			R
Carried to Form of Tender			R
Prepared By: SRSQS QUANTITY SURVEYORS (PTY) LTD			