

Item No	Quantity	Rate	Amount
<b><u>SECTION 1</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
<p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries are for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>			
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### **PREAMBLES FOR TRADES**

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

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

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

### **GENERAL**

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

### **SECTION A - PRINCIPAL BUILDING AGREEMENT**

#### **Definitions (A1)**

- 1 Definitions and interpretation (clause 1)

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

Item

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

- 2 Offer acceptance and performance (clause 2)

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

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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		
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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.

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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		
	<b><u>Execution (A15-A23)</u></b>			
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....			
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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:.....

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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		
<b><u>Completion (A24-A30)</u></b>				
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		

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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		
<b><u>Payment (A31 - A35)</u></b>				
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		
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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

**Cancellation (A36-A39)**

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:.....

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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

**Dispute (A40)**

40 Dispute Settlement (clause 40)

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

Item

**Substitute Provisions (A41)**

41 State clauses (Clause 41)

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

Item

**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

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**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

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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*

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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

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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:.....

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49	Tender submission (B2.6) F:..... V:..... T:.....	Item
50	Defined works area (B3.1) F:..... V:..... T:.....	Item
<b><u>The site (B3)</u></b>		
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

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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		
<b><u>Management of contract (B4)</u></b>				
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		
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**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:.....

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[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:.....

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84	Payment certificate cash flow (B10.4)				
	F:..... V:..... T:.....	Item			
	<b><u>General (B11)</u></b>				
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			
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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		
<b><u>Schedule of variables (B12)</u></b>				
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			
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12.1.21 Special attendance (B9.2)

Subcontractor (1) details:

N/A

12.1.22 Protection of the works (B11.1)

N/A

12.1.23 Disturbance (B11.5)

N/A

12.1.24 Environmental Disturbance (B11.6)

N/A

**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

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

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.....

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**THE MVULA TRUST**  
**LDOE WATER & SANITATION PROGRAMME**  
**CM SEHLAPELO PRIMARY SCHOOL**

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PRELIMINARIES

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PRELIMINARIES

**Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD**



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<b><u>BILL NO. 1</u></b>			
<b><u>ALTERATIONS</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>View site</u></b>			
<p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p>			
<b><u>Explosives</u></b>			
<p>No explosives whatsoever may be used for demolition.</p>			
<b><u>General</u></b>			
<p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.</p>			
<p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.</p>			
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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).

### **ALTERATIONS TO EXISTING TOILETS**

#### **REMOVAL OF EXISTING WORK**

##### **Breaking down and removing mass concrete**

1	100mm Thick surface bed	m2	48	
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<b><u>Breaking down and removing brickwork etc</u></b>					
2	One brick wall	m2	11		
<b><u>Taking out and removing doors, windows, etc including threshold, sills, etc (building up openings elsewhere)</u></b>					
3	Timber single door and steel frame 813 x 2032mm high	No	22		
4	Steel security gate 900 x 2100mm high	No	6		
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>					
5	Cleaning and scrubbing down existing face brick with mild detergent till clean	m2	391		
<b><u>UNREINFORCED CONCRETE, ETC</u></b>					
6	2Aprons cast in panels	m3	7		
7	Ramp	m3	4		
8	Thickening down apron on edge 110mm deep x 200mm wide	m	39		
<b><u>CONCRETE SUNDRIES</u></b>					
<u>Finishing top surfaces of concrete smooth with a wood float:</u>					
9	Aprons and pavings to falls	m2	39		
10	Ramps to falls	m2	6		
<b><u>TEST CUBES</u></b>					
11	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		
<b><u>FORMWORK</u></b>					
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	<u>Aluzink seamless metal gutters:</u>			
22	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	132	
23	Extra over for closed ends	No	6	
24	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	32	
25	Extra over rainwater pipe for eaves offset	No	6	
26	Ditto ,for shoe	No	6	
	<b><u>EAVES, VERGES, ETC.</u></b>			
	<u>Pressed fibre-cement:</u>			
27	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	132	
	<b><u>DOORS, ETC.</u></b>			
	<u>Wrought meranti doors hung to steel frames:</u>			
28	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	22	
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved:</u>			
29	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	22	
	<b><u>LOCKS</u></b>			
	<u>Approved:</u>			
30	Three lever mortice lockset	No	6	
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	<b><u>BILL NO.1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
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	
	<b><u>EXCAVATION,FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeeding 2m deep:</u>			
3	Trenches	m3	12	
4	For aprons thickenning	m3	3	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
5	Soft rock	m3	10	
6	Hard rock	m3	10	
	<u>Extra over all excavations for carting away:</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be aloated by the Contractor	m3	9	
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	<u>Risk of collapse of excavations:</u>				
8	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	34		
	<u>Keeping excavations free of water:</u>				
9	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
10	Under floors, steps, pavings, etc.	m3	3		
11	Backfilling to trenches, holes, etc.	m3	3		
	<u>Compaction of surfaces:</u>				
12	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 <b>AASHTO</b> density	m2	19		
13	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 <b>AASHTO</b> density	m2	23		
	<u>Prescribed density tests on filling:</u>				
14	Modified AASHTO Density tests	No	5		
	<b><u>SOIL POISONING</u></b>				
	<u>Soil insecticide</u>				
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	19		
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THE MVULA TRUST  
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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL NO.3</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>BRICKWORK</u></b>			
<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			
<u>Face bricks:</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b>Carried to Collection</b>			
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<b>Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD</b>			

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	17		
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**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	7		
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**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	9		
4	One brickwork for face brick walls pointed both sides	m2	89		
5	Extra over brickwork for face brickwork in beamfilling	m2	4		
6	Fair raking and cutting	m	7		

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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	4
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	5
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	2

### **BRICKWORK SUNDRIES**

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	37
11	150mm Wide reinforcement built in horizontally	m	256

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	7
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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	14
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Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	8
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Ventilation bricks:

15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8
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	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	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			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<u>0,6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	32	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	32	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	7	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5	
6	Extra over rainwater pipe for eaves offset	No	2	
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ROOF COVERINGS

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ROOF COVERINGS

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<b><u>BILL NO.6</u></b>				
<b><u>CARPENTRY AND JOINERY</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<b><u>ROOFS, ETC.</u></b>				
<u>Sawn softwood:</u>				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	37	
2	76 x 38mm Wall plates	m	11	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	35	
<u>Sundries:</u>				
4	Two coats creosote on sawn timbers	m2	23	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	14	
6	Hurricane clips	No	30	
<b><u>EAVES, VERGES, ETC.</u></b>				
<u>Pressed fibre-cement:</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	23	
<b><u>DOORS, ETC.</u></b>				
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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	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

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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<b><u>BILL NO.7</u></b>				
<b><u>IRONMONGERY</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>				
<u>Approved:</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
<b><u>LOCKS</u></b>				
<u>Approved:</u>				
2	Three lever mortice lockset	No	5	
3	Indicator lockset	No	3	
<b><u>DOORSTOPS</u></b>				
<u>Approved:</u>				
4	38mm Diameter rubber door stop plugged	No	5	
<b><u>LETTERS, NAMEPLATES, ETC.</u></b>				
<u>"Union" or similar approved:</u>				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	1	
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Section No. 3 SD2 Bill No. 7 IRONMONGERY				
<b>Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD</b>				

**Push Plates And Kicking Plates**

- 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

**"Vaal Paragon" or similar approved:**

- 7 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

- 8 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

**BATHROOM FITTINGS**

**"Kimberley-Clark" or Simlilar:**

- 9 "Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder

No

3

**Stainless steel:**

- 10 Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.

No

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Bill No. 7  
IRONMONGERY

**Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD**

Section No. 3

Bill No. 7

IRONMONGERY

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Bill No. 7

IRONMONGERY

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

Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 9</u></b>			
<b><u>PLASTERING</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>CEMENT SCREEDS TO CONCRETE</u></b>			
<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	23
<b><u>FLOOR AND WALLS SEALERS</u></b>			
<u>Minimum two coats approved epoxy coat:</u>			
2	On screed	m2	23
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PLASTERING			
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	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SOIL DRAINAGE</u></b>			
	<u>uPVC flexible drainage pipes:</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep	m	155	
2	110mm Ditto, but exceeding 1m and not exceeding 2m deep	m	106	
	<u>Extra over uPVC flexible drainage pipes for fittings:</u>			
3	110mm Bend	No	23	
4	110mm Junction	No	12	
5	110mm Rodding eye	No	3	
6	110mm Inspection eye	No	3	
	<u>uPVC gulleys:</u>			
7	110mm Gulley not exceeding 500mm deep	No	2	
	<u>Testing:</u>			
8	Testing soil drainage system	Item		
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	Section No. 3 SD2 Bill No. 10 PLUMBING AND DRAINAGE			
	<b>Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD</b>			

**SANITARY FITTINGS**

Vaal or similar approved:

9	Wash hand basin bolted to wall including all fittings and necessary pipework	No	3
10	Wall urinal complete with spreader and waste union, flush valve, etc.	No	1
11	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	3

**TRAPS, ETC**

uPVC:

12	"Cobra Ref. 345/50" CP bottle trap	No	5
----	------------------------------------	----	---

**TAPS, VALVES, ETC**

13	15mm elbow action pillar tap	No	1
14	19mm chrome plated push button taps to WHB	No	3

**WATER SUPPLIES**

uPVC pipes:

15	20mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep	m	50
16	40mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep	m	10

Extra over uPVC pipes for fittings:

17	20mm Bend	No	5
18	40mm Bend	No	5

Galvanised steel pipes:

19	20mm Pipes chased into brick walls	m	3
----	------------------------------------	---	---

**Carried to Collection**

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PLUMBING AND DRAINAGE

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Section No. 3

Bill No. 10

PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<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	8	
	<b><u>ON WOOD</u></b>			
	<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) &lt; 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	4	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	6	
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	PAINTWORK			
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**ON METAL**

Plascon Velvagio 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 Velvagio 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	10
5	On gates (Measured over the full flat area of both sides)	m2	6
6	On gutters and down pipes	m	9
7	On windows with burglar bars	m2	3

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PAINTWORK

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Bill No. 12

PAINTWORK

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3	MASONRY	50	
4	WATERPROOFING	51	
5	ROOF COVERINGS	54	
6	CARPENTRY AND JOINERY	57	
7	IRONMONGERY	60	
8	METALWORK	61	
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10	PLUMBING AND DRAINAGE	66	
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	<u>Risk of collapse of excavations:</u>				
8	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	21		
	<u>Keeping excavations free of water:</u>				
9	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
10	Under floors, steps, pavings, etc.	m3	5		
11	Backfilling to trenches, holes, etc.	m3	1		
	<u>Compaction of surfaces:</u>				
12	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 <b>AASHTO</b> density	m2	32		
13	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 <b>AASHTO</b> density	m2	31		
	<u>Prescribed density tests on filling:</u>				
14	Modified AASHTO Density tests	No	5		
	<b><u>SOIL POISONING</u></b>				
	<u>Soil insecticide</u>				
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	32		
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EARTHWORKS					
<b>Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD</b>					

THE MVULA TRUST  
LDOE WATER & SANITATION PROGRAMME  
CM SEHLAPELO PRIMARY SCHOOL

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EARTHWORKS

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EARTHWORKS

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Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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<b><u>BILL NO.3</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>BRICKWORK</u></b>			
<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			
<u>Face bricks:</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
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MASONRY			
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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	25		
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**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	5		
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**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	108		
5	Extra over brickwork for face brickwork in beamfilling	m2	5		
6	Fair raking and cutting	m	42		

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MASONRY

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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	10
	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	8
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	5

### **BRICKWORK SUNDRIES**

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	4
11	150mm Wide reinforcement built in horizontally	m	806

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	10
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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	20
----	--	----	----

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
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MASONRY

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MASONRY

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MASONRY

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	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	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			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<u>0,6mm "Kliplok" chromadek profile roof sheeting fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	50	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	50	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	10	
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	
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	ROOF COVERINGS			
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Bill No. 5

ROOF COVERINGS

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Bill No. 5

ROOF COVERINGS

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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 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

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Section No. 4

GR3

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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**Push Plates And Kicking Plates**

- 4 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

"Union" or similar approved:

- 5 75 x 150mm Natural anodised aluminium plate with male or female symbol

No

4

"Vaal Paragon" or similar approved:

- 6 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

- 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

**BATHROOM FITTINGS**

"Kimberley-Clark" or Similar:

- 8 "Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder

No

5

Stainless steel:

- 9 Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.

No

4

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IRONMONGERY

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IRONMONGERY

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IRONMONGERY

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,6mm Double rebated frames suitable for half brickwalls:</u>			
1	Frame for door 900 x 2100mm high	No	2	
	<u>1,6mm Double rebated frames suitable for one brickwalls:</u>			
2	Frame for door 813 x 2032mm high	No	2	
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	7	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	3	
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames:</u>			
5	Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	4	
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Item No	Quantity	Rate	Amount
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<b><u>BILL NO. 10</u></b>			
<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>SOIL DRAINAGE</u></b>			
<u>uPVC flexible drainage pipes:</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep	m	114
2	110mm Ditto, but exceeding 1m and not exceeding 2m deep	m	135
<u>Extra over uPVC flexible drainage pipes for fittings:</u>			
3	110mm Bend	No	20
4	110mm Junction	No	9
5	110mm Rodding eye	No	6
6	110mm Inspection eye	No	9
<u>uPVC gulleys:</u>			
7	110mm Gulley not exceeding 500mm deep	No	2
<u>Testing:</u>			
8	Testing soil drainage system	Item	
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Section No. 4 GR3 Bill No. 10 PLUMBING AND DRAINAGE			
<b>Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD</b>			

**SANITARY FITTINGS**

Vaal or similar approved:

9	Wash hand basin bolted to wall including all fittings and necessary pipework	No	4
10	Wall urinal complete with spreader and waste union, flush valve, etc.	No	2
11	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	No	5

**TRAPS, ETC**

uPVC:

12	"Cobra Ref. 345/50" CP bottle trap	No	6
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Pressed fibre-cement:

13	40mm "P" or "S" trap	No	9
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**TAPS, VALVES, ETC**

14	15mm elbow action pillar tap	No	1
15	19mm chrome plated push button taps to WHB	No	4

**WATER SUPPLIES**

uPVC pipes:

16	20mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep	m	60
17	40mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep	m	20

Extra over uPVC pipes for fittings:

18	20mm Bend	No	6
19	40mm Bend	No	6

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<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	11	
	<b><u>ON WOOD</u></b>			
	<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) &lt; 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	3	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	28	
	<b>Carried to Collection</b>			
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	GR3			
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	PAINTWORK			
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**ON METAL**

Plascon Velvagio 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 Velvagio 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	17
7	On windows with burglar bars	m2	4

**Carried to Collection**

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PAINTWORK

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Bill No. 12

PAINTWORK

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GR3

Bill No. 12

PAINTWORK

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<b><u>SECTION 6</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>WATER SUPPLIES</u></b>				
<u>Class 10 HDPe type IV pipes</u>				
1	40mm Pipes laid in and including trenches not exceeding 1m deep	m	17	
2	50mm Pipes laid in and including trenches not exceeding 1m deep	m	192	
<u>Extra over Class 10 HDPE type IV pipes for fittings</u>				
3	40mm Fittings	No	15	
4	40mm Reducer	No	6	
5	40mm Bend	No	10	
6	50mm Reducer	No	6	
7	50mm Bend	No	10	
8	50mm Threaded adaptor	No	5	
<b><u>Galvanised medium steel pipes with screwed and socketed joints</u></b>				
9	50mm Pipes	m	15	
<b><u>Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings</u></b>				
10	50mm Fittings	No	6	
11	50mm Bush	No	6	
12	50mm Elbow	No	6	
<b>Carried to Collection</b>				R
Section No. 5 EXTERNAL WORKS Bill No. 1 WATER SUPPLIES				
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Section No. 5

Bill No. 1

WATER SUPPLIES

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Bill No. 1  
WATER SUPPLIES

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Item No	Quantity	Rate	Amount
<b><u>SECTION 6</u></b>			
<b><u>BILL NO. 2</u></b>			
<b><u>ELEVATED WATER TANKS</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	5
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
2	Soft rock	m3	1
3	Hard rock	m3	1
	<u>Extra over all excavations for carting away</u>		
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	4
	<u>Risk of collapse of excavations</u>		
5	Sides of trench and hole excavation not exceeding 1,5m deep	m2	22
	<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 compacted to 93 % Mod AASHTO density</u>		
7	Backfilling to trenches, holes, etc.	m3	1
<b>Carried to Collection</b>			R
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**THE MVULA TRUST**  
**LDOE WATER & SANITATION PROGRAMME**  
**CM SEHLAPELO PRIMARY 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		
<b>Carried to Collection</b>				R	
Section No. 5 EXTERNAL WORKS Bill No. 2 WATER TANKS					
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32	10mm Diameter U-shaped holding down bolt 250mm girth fixed to columns	No	48
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33	12mm Diameter L-shaped threaded anchor bolt 350mm girth embedded in top of concrete	No	16
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**PAINTWORK TO NEW WORK**

**ON METAL**

Undercoat and minimum 2 coat gloss enamel

34	Paint to structural steel	m	735
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WATER TANKS

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	<u>Compaction of surfaces</u>				
7	Compaction of ground surface under surface beds 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	22		
	<u>15MPa/19mm Unreinforced concrete cast against excavated surfaces</u>				
8	Blinding layer under surface beds	m3	1		
	<u>30MPa/19mm Reinforced concrete</u>				
9	Surface beds	m3	5		
10	Slabs	m3	4		
11	Inverted beams	m3	1		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
12	Surface beds	m2	22		
13	Slabs	m2	16		
	<u>Rough formwork to sides</u>				
14	Edges of slabs not exceeding 300mm high or wide	m	18		
15	Sides of inverted beams not exceeding 300mm high or wide	m	42		
	<u>Rough formwork to soffits</u>				
16	Slabs	m2	16		
	<u>Rough formwork to form</u>				
17	500 x 500mm Opening through 250mm thick slab	No	2		
<b>Carried to Collection</b>					R
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**CM SEHLAPELO PRIMARY SCHOOL**

	<u>Mild steel reinforcement to structural concrete work</u>				
18	8mm Diameter bars	t	0.34		
	<u>High tensile steel reinforcement to structural concrete work</u>				
19	12mm Diameter bars	t	0.62		
	<u>Brickwork of NFX bricks in class I mortar</u>				
20	One brick walls	m2	13		
21	One-and-a-half brick walls	m2	36		
	<u>Mortar fillets</u>				
22	Splayed mortar triangular fillet 230mm wide at base x 480mm high x 230mm long	No	2		
	<u>Openings in brickwork</u>				
23	450 x 200mm High flue in one brick wall including rendering smooth in mortar	m	1		
	<u>Brickwork reinforcement</u>				
24	75mm Wide reinforcement built in horizontally	m	214		
25	150mm Wide reinforcement built in horizontally	m	266		
	<u>Two coats "Silca Top Seal 107" cementitious waterproof coating</u>				
26	On brick walls	m2	51		
	<u>Cement plaster on brickwork</u>				
27	On walls	m2	51		
<b>Carried to Collection</b>				R	
Section No. 5 EXTERNAL WORKS Bill No. 3 SEPTIC TANK AND FRENCH DRAIN					
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	<u>UPVC 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>				
28	110mm Pipes fixed to walls	m	2		
29	110mm Pipes laid in and including trenches not exceeding 1m deep	m	4		
	<u>Extra over uPVC pipes for fittings</u>				
30	110mm Junction	No	2		
	<u>Gratings, covers, etc</u>				
31	600 x 600mm Cast iron double seal manhole cover and frame (heavy duty 99kg) SANS 558-1965 Type 8B including 50 x 80mm concrete surround	No	2		
	<b><u>The following in manhole to septic tank:</u></b>				
	<u>Excavation in earth not exceeding 2m deep</u>				
32	Manholes	m3	1		
	<u>Risk of collapse of excavations</u>				
33	Sides of excavations for manholes not exceeding 1,5m deep	m2	4		
	<u>15MPa/19mm Unreinforced concrete cast against excavated surfaces</u>				
34	Blinding layer under surface beds	m3	0.1		
	<u>30MPa/19mm Reinforced concrete</u>				
35	Surface beds	m3	0.2		
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
36	Surface beds	m2	1		
<b>Carried to Collection</b>					R
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	<u>Mild steel reinforcement to structural concrete work</u>				
37	8mm Diameter bars	t	0.01		
	<u>High tensile steel reinforcement to structural concrete work</u>				
38	12mm Diameter bars	t	0.02		
	<u>Brickwork of NFX bricks in class I mortar</u>				
39	One brick walls	m2	3		
	<u>Two coats "Silca Top Seal 107" cementitious waterproof coating</u>				
40	On brick walls	m2	3		
	<u>Cement plaster on brickwork</u>				
41	On walls	m2	3		
	<u>Gratings, covers, etc</u>				
42	600 x 600mm Cast iron double seal manhole cover and frame (heavy duty 99kg) SANS 558-1965 Type 8B including 50 x 80mm concrete surround	No	1		
	<b><u>The following in soakaway to septic tank:</u></b>				
	<u>Excavation in earth not exceeding 2m deep</u>				
43	French drains	m3	13		
	<u>Risk of collapse of excavations</u>				
44	Sides of excavations for french drains not exceeding 1,5m deep	m2	30		
45	Sides of excavations for french drains exceeding 1,5m deep	m2	4		
<b>Carried to Collection</b>				R	
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	<u>Extra over all excavations for carting away</u>				
46	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	9		
	<u>Keeping excavations free of water</u>				
47	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>				
48	In backfilling to top of french drain	m3	4		
	<u>Stone pitching of approximately 20-75mm diameter river stones tightly packed</u>				
49	In french drains	m3	9		
	<u>"Bidem B3" filter fabric with 200mm laps</u>				
50	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>				
51	110mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
52	110mm Stop end	No	1		
	<u>Cast iron plain ended pipes with "Besaans du Plessis type SSN" couplings</u>				
53	100mm Inspection pipe, 1200mm long	No	2		
	<u>Sundries</u>				
54	100mm Cast iron "ABC" cleaning eye inserted in top inspection pipe	No	2		
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**CM SEHLAPELO PRIMARY SCHOOL**

**SUNDRIES**

55	Extra over excavations in earth for sewer trenches, etc for excavating in soft rock	m3	8		
56	Extra over excavations in earth for sewer trenches, etc for excavating in hard rock	m3	4		
57	110mm Dished gulley not exceeding 1m deep with 150mm cast iron grating and standard concrete gulley surround	No	1		
58	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		
59	Testing drainage pipe system		Item		

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SEPTIC TANK AND FRENCH DRAIN

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EXTERNAL WORKS

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SEPTIC TANK AND FRENCH DRAIN

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	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>PAVED WALKWAY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	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	298	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	298	
	<u>Open face excavation in earth over sloping site</u>			
3	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep	m3	66	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	66	
	<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	89	
	<b>Carried to Collection</b>		R	
	Section No. 5 EXTERNAL WORKS Bill No. 4 PAVED WALKWAY			
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**CM SEHLAPELO PRIMARY 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	298		
	<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 <sup>2</sup> on cleared ground	m2	298		
	<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	298		
9	Fig. 12 kerbs to sides of paving	m	530		
10	15Mpa/19mm unreinforced concrete in haunching	m3	32		
<b>Carried to Collection</b>					
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PAVED WALKWAY

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	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>STORMWATER CONTROL</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Earthworks</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	165	
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, paving, etc	m2	165	
3	Extra over surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	47	
4	Extra over trench or hole for excavations in soft rock	m3	18	
5	Extra over trench or hole for excavations in hard rock	m3	9	
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	165	
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	165	
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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	165
9	Extra for fair open end	No	10
10	Extra for fair stopped end	No	10
11	Extra for angle intersection	No	22

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STORMWATER CONTROL

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STORMWATER CONTROL

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<b><u>FENCING</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>EXCAVATIONS</u></b>			
<b><u>EXCAVATION, FILLING, ETC</u></b>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	57
<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	15
3	Hard rock	m3	10
<u>Extra over all excavations for carting away</u>			
4	<u>Surplus material from excavations on site to a dumping site to be located by the contractor</u>	m3	57
<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m dee	m2	512
<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water	Item	
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	<u>Soil insecticide</u>			
7	To bottoms and sides of trenches etc	m2	465	
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<u>25MPa/19mm concrete</u>			
8	Bases	m3	47	
	<b><u>FENCING</u></b>			
	<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	610	
	<b><u>GATES, ETC.</u></b>			
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	2	
	<b>Carried to Collection</b>			
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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>	No	4
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**PAINTWORK ETC TO NEW WORK**

**ON METAL**

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)

12	<p>On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area ) (LI)</p>	m2	1 806
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