

PREAMBLES FOR TRADES

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

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

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

GENERAL

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

SECTION A - PRINCIPAL BUILDING AGREEMENT

- 1 Definitions and interpretation (clause 1)

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

Item

Objective and Preparation (A2 to A14)

- 2 Offer acceptance and performance (clause 2)

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

Item

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

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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		
	<u>Execution (A15-A23)</u>			
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....			
		Item		
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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:.....	Item		
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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> <p><u>Completion (A24-A30)</u></p>	Item	
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		
<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		
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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		
<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		
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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		
	<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		
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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

Management of contract (B4)

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:.....

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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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<u>Prime cost amounts (B8)</u>				
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
<u>Attendance on N/S Subcontractors (B9)</u>				
79	General attendance (B9.1) F:..... V:..... T:.....	Item		
80	Special attendance (B9.2) F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
<u>Financial aspects (B10)</u>				
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:.....	Item		
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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

Schedule of variables (B12)

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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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		
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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>			
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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
TLAKALE MAHSASHANE SECONDARY SCHOOL

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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	16	
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ALTERATIONS

Breaking down and removing mass concrete

2	100mm Thick surface bed	m2	11	
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<u>Taking out and removing doors, windows, etc including threshold, sills, etc (building up openings elsewhere)</u>					
3	Timber single door and steel frame 813 x 2032mm high	No	36		
4	Steel security gate 900 x 2100mm high	No	10		
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>					
5	30mm Screed from floors	m2	190		
<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>					
6	Vitreous china WC pan with cistern	No	36		
7	Vitreous china basin	No	36		
<u>SERVICING OF DOORS AND WINDOWS</u>					
8	Replace existing damaged or missing brass window stay	No	28		
<u>CHEMICAL TREATMENT</u>					
<u>Termite Post Construction Treatment</u>					
9	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	190		
<u>PREPARATORY WORK TO EXISTING SURFACES</u>					
10	Cleaning and scrubbing down existing face brick with mild detergent till clean	m2	552		
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UNREINFORCED CONCRETE, ETC

11	2Aprons cast in panels	m3	11
12	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	12
13	Thickening down apron on edge 110mm deep x 200mm wide	m	120

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float:

14	Aprons and pavings to falls	m2	120
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TEST CUBES

15	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
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FORMWORK

Rough formwork to sides:

16	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	120
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RAINWATER DISPOSAL

Aluzink seamless metal gutters:

17	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	50
18	Extra over for closed ends	No	10
19	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	40
20	Extra over rainwater pipe for eaves offset	No	10

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21	Ditto ,for shoe EAVES, VERGES, ETC. Pressed fibre-cement:	No	10
22	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips DOORS, ETC. Wrought meranti doors hung to steel frames:	m	50
23	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) CATCHES, CABIN, HOOKS, ETC Approved:	No	36
24	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged LOCKS Approved:	No	36
25	Three lever mortice lockset	No	10
26	Indicator lockset DOORSTOPS Approved:	No	36
27	38mm Diameter rubber door stop plugged LETTERS, NAMEPLATES, ETC.	No	46
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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

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	<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	77	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	77	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Trenches	m3	10	
4	Pit	m3	29	
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	34	
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	<u>Risk of collapse of excavations:</u>		
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	42
	<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	3
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	21
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	29
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	20
	<u>Prescribed density tests on filling:</u>		
16	Modified AASHTO Density tests	No	5
	<u>SOIL POISONING</u>		
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Soil insecticide

17 Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.

m2

20

18	To bottom of concrete aprons
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m2

28

19 | **To** bottoms and sides of trenches, etc.

m2

32

20	To bottom and sides of pit
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m2

41

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EARTHWORKS

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EARTHWORKS

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For preambles see "Specifications of materials and methods to be used - PW 371"				
<u>UNREINFORCED CONCRETE, ETC</u>				
<u>25Mpa/19mm Concrete:</u>				
1	Strip footings	m3	3	
2	2Aprons cast in panels	m3	2	
3	Ramp	m3	1	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	4	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	24	
<u>REINFORCED CONCRETE, ETC</u>				
<u>25Mpa/19mm Concrete:</u>				
6	Surface beds	m3	4	
7	Concrete base Slab in Pit	m3	3	
<u>CONCRETE SUNDRIES</u>				
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TLAKALE MAHSASHANE SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	62		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	41		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	24		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	41		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	63		
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CONCRETE, FORMWORK AND REINFORCEMENT

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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	36	
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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	2	
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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	19	
4	One brickwork for face brick walls pointed both sides	m2	72	
5	Extra over brickwork for face brickwork in beamfilling	m2	4	
6	Fair raking and cutting	m	8	

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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	8
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7

BRICKWORK SUNDRIES

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	21
11	150mm Wide reinforcement built in horizontally	m	602

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	8
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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	15
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Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths 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	9
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MASONRY

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	<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	40	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	40	
	<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	6	
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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ROOF COVERINGS

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
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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	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	5
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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Bill No. 6

CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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<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	7	
<u>LOCKS</u>				
<u>Approved:</u>				
2	Three lever mortice lockset	No	1	
3	Indicator lockset	No	6	
<u>DOORSTOPS</u>				
<u>Approved:</u>				
4	38mm Diameter rubber door stop plugged	No	7	
<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	
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	<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>1,6mm Double rebated frames suitable for half brickwalls:</u>			
1	Frame for door 813 x 1883mm high	No	5	
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	6	
5	Window type NE 7,1022 x 654mm high including burglar bars	No	3	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<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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	METALWORK			
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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
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6	Elbow taps	No	1
---	------------	----	---

FITTINGS

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

8	Stainless-steel 24L SHE-BIN plugged to walls	No	2
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Bill No. 10

PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

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	<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	8	
	<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	36	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	14	
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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	8
5	On gates (Measured over the full flat area of both sides)	m2	6
6	On gutters and down pipes	m	8
7	On windows with burglar bars	m2	4

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	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	106	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	106	
	<u>EXCAVATION,FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Trenches	m3	14	
4	Pit	m3	41	
5	For aprons thickenning	m3	5	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	6	
7	Hard rock	m3	6	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	52	
	Carried to Collection		R	
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Bill No. 1

EARTHWORKS

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EARTHWORKS

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	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	96		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	38		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	62		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	94		
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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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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	50	
---	-----------------	----	----	--

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	
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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	34	
4	One brickwork for face brick walls pointed both sides	m2	84	
5	Extra over brickwork for face brickwork in beamfilling	m2	12	
6	Fair raking and cutting	m	10	

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MASONRY

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	11		
	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	2		
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7		

BRICKWORK SUNDRIES

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	21		
11	150mm Wide reinforcement built in horizontally	m	811		

Turning pieces:

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

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	23		
----	--	----	----	--	--

Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	12		
----	--	---	----	--	--

Ventilation bricks:

15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	13		
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MASONRY

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MASONRY

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MASONRY

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
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	<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	60	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	60	
	<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	12	
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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ROOF COVERINGS

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Item No		Quantity	Rate	Amount
<u>SECTION 3</u>				
<u>BILL NO.6</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<u>ROOFS, ETC.</u>				
<u>Sawn softwood:</u>				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	62	
2	76 x 38mm Wall plates	m	23	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	63	
<u>Sundries:</u>				
4	Two coats creosote on sawn timbers	m2	26	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	25	
6	Hurricane clips	No	64	
<u>EAVES, VERGES, ETC.</u>				
<u>Pressed fibre-cement:</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	34	
<u>DOORS, ETC.</u>				
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LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	9
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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CARPENTRY AND JOINERY

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Bill No. 7

IRONMONGERY

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Bill No. 7

IRONMONGERY

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<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>1.6mm Double rebated frames suitable for half brickwalls:</u>				
1	Frame for door 813 x 1883mm high	No	9	
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	10	
5	Window type NE 7,1022 x 654mm high including burglar bars	No	5	
<u>WELDED SCREENS, GATES, ETC</u>				
<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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METALWORK				
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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 | 2 |
|---|---|----|---|

- | | | | |
|---|------------|----|---|
| 6 | Elbow taps | No | 2 |
|---|------------|----|---|

FITTINGS

- | | | | |
|---|---|----|---|
| 7 | 19mm chrome plated push button taps to wash troughs | No | 2 |
|---|---|----|---|

Sundries

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

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Bill No. 10

PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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Bill No. 10

PLUMBING AND DRAINAGE

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	<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	42	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	14	
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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	12
5	On gates (Measured over the full flat area of both sides)	m2	8
6	On gutters and down pipes	m	9
7	On windows with burglar bars	m2	5

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PAINTWORK

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	56		
	<u>Keeping excavations free of water:</u>				
10	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m3	6		
12	Backfilling to trenches, holes, etc.	m3	1		
	<u>Compaction of surfaces:</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	38		
14	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	46		
15	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	35		
	<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO Density tests	No	5		
	<u>SOIL POISONING</u>				
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EARTHWORKS

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EARTHWORKS

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	36		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	44		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	59		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	83		
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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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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	57	
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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	4	
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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	26	
4	One brickwork for face brick walls pointed both sides	m2	99	
5	Extra over brickwork for face brickwork in beamfilling	m2	10	
6	Fair raking and cutting	m	16	

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MASONRY

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	15
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	12
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	39
11	150mm Wide reinforcement built in horizontally	m	671

Turning pieces:

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

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
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Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	12
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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	16
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MASONRY

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TLAKALE MAHSASHANE SECONDARY SCHOOL

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MASONRY

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
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	<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	61	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	61	
	<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	20	
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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Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood:</u>			
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	44	
2	76 x 38mm Wall plates	m	37	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	66	
	<u>Sundries:</u>			
4	Two coats creosote on sawn timbers	m ²	33	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	27	
6	Hurricane clips	No	34	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement:</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	39	
	<u>DOORS, ETC.</u>			
	Carried to Collection		R	
	Section No. 5 SMD6 Bill No. 6 CARPENTRY AND JOINERY			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	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	1

Carried to Collection

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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IRONMONGERY

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IRONMONGERY

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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>1,6mm Double rebated frames suitable for half brickwalls:</u>			
1	Frame for door 813 x 1883mm high	No 6	
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 10	
5	Window type NE 7,1022 x 654mm high including burglar bars	No 5	
<u>WELDED SCREENS, GATES, ETC</u>			
<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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Item No		Quantity	Rate	Amount
<u>SECTION 3</u>				
<u>BILL NO. 10</u>				
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<u>ENVIRO-LOO TOILET SYSTEMS</u>				
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	8	
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)	No	8	
3	Enviro-loo system - Urinal complete with 1 pan (Code FG 862B), including all components as per specification	No	1	
4	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
Carried to Collection				R
Section No. 5 SMD6 Bill No. 10 PLUMBING AND DRAINAGE				
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 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

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Bill No. 10
PLUMBING AND DRAINAGE

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Bill No. 10

PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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	<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	
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	PAINTWORK			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

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	7
7	On windows with burglar bars	m2	5

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PAINTWORK

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4	WATERPROOFING	114	
5	ROOF COVERINGS	117	
6	CARPENTRY AND JOINERY	120	
7	IRONMONGERY	123	
8	METALWORK	124	
9	PLASTERING	125	
10	PLUMBING AND DRAINAGE	128	
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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	95	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	95	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Trenches	m3	10	
4	Pit	m3	38	
5	For aprons thickening	m3	4	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	5	
7	Hard rock	m3	5	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	47	
	Carried to Collection			
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SOIL POISONING

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EARTHWORKS

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EARTHWORKS

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	31		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	39		
	<u>TEST CUBES</u>				
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5		
	<u>FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	39		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	54		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	78		
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CONCRETE, FORMWORK AND REINFORCEMENT					
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 Bill No. 2
 CONCRETE,FORMWORK AND REINFORCEMENT
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 CONCRETE,FORMWORK AND REINFORCEMENT
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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	47	
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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	3	
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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	21	
4	One brickwork for face brick walls pointed both sides	m2	94	
5	Extra over brickwork for face brickwork in beamfilling	m2	7	
6	Fair raking and cutting	m	16	

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M5
Bill No. 3
MASONRY

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	12		
	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	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	29		
11	150mm Wide reinforcement built in horizontally	m	651		

Turning pieces:

12	220mm Wide turning piece to lintel etc	m	12		
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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	19		
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Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	10		
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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	12		
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MASONRY

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MASONRY

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TLAKALE MAHSASHANE SECONDARY SCHOOL

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	<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	55	
	<u>Sundries:</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	55	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	14	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7	
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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<u>CARPENTRY AND JOINERY</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<u>ROOFS, ETC.</u>				
<u>Sawn softwood:</u>				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	34	
2	76 x 38mm Wall plates	m	27	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	56	
<u>Sundries:</u>				
4	Two coats creosote on sawn timbers	m ²	27	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	24	
6	Hurricane clips	No	31	
<u>EAVES, VERGES, ETC.</u>				
<u>Pressed fibre-cement:</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	36	
<u>DOORS, ETC.</u>				
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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	5
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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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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		
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IRONMONGERY					
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IRONMONGERY

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IRONMONGERY

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<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>1,6mm Double rebated frames suitable for half brickwalls:</u>			
1	Frame for door 813 x 1883mm high	No	5
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	2
<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	9
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 813 x 2032mm High	No	2
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<u>BILL NO. 10</u>				
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<u>ENVIRO-LOO TOILET SYSTEMS</u>				
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	7	
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)	No	7	
3	Enviro-loo system - Urinal complete with 1 pan (Code FG 862B), including all components as per specification	No	1	
4	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
Carried to Collection				R
Section No. 6 M5 Bill No. 10 PLUMBING AND DRAINAGE				
Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

**INSPECTION BY ENVIRO-LOO/SUPPLIER AT
TLAKALE MASHASHANE SECONDARY
SCHOOL**

- 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**

SECTION 3

- 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

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Section No. 6

M5

Bill No. 10

PLUMBING AND DRAINAGE

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Section No. 6

Bill No. 10

PLUMBING AND DRAINAGE

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Bill No. 10

PLUMBING AND DRAINAGE

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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	
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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	7
7	On windows with burglar bars	m2	5

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PAINTWORK

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PAINTWORK

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	Risk of collapse of excavations:				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	65		
	Keeping excavations free of water:				
10	Keeping excavations free of water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:				
11	Under floors, steps, pavings, etc.	m3	6		
12	Backfilling to trenches, holes, etc.	m3	1		
	Compaction of surfaces:				
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	34		
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	40		
15	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	29		
	Prescribed density tests on filling:				
16	Modified AASHTO Density tests	No	5		
	<u>SOIL POISONING</u>				
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LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

Soil insecticide

17 Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.

m2

32

18	To bottom of concrete aprons
----	------------------------------

m2

43

19 | **To** bottoms and sides of trenches, etc.

m2

50

20	To bottom and sides of pit
----	----------------------------

m2

68

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Bill No. 1
EARTHWORKS

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Bill No. 1

EARTHWORKS

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EARTHWORKS

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

	<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
8	Surface beds, slabs, etc.	m2	106		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Aprons and pavings to falls	m2	43		
	<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	67		
	<u>REINFORCEMENT</u>				
	<u>Mesh Reinforcement (measure nett):</u>				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	104		
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CONCRETE, FORMWORK AND REINFORCEMENT					
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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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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	53		
---	-----------------	----	----	--	--

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	4		
---	---	----	---	--	--

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	39		
4	One brickwork for face brick walls pointed both sides	m2	106		
5	Extra over brickwork for face brickwork in beamfilling	m2	12		
6	Fair raking and cutting	m	10		

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SFD10
Bill No. 3
MASONRY

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LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7000.00/1000 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	12
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7

BRICKWORK SUNDRIES

Brick reinforcement:

10	75mm Wide reinforcement built in horizontally	m	21
11	150mm Wide reinforcement built in horizontally	m	851

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
----	--	----	----

Prestressed fabricated lintels:

14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	13
----	--	---	----

Ventilation bricks:

15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	16
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MASONRY

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MASONRY

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MASONRY

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	13	
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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Item No		Quantity	Rate	Amount
<u>SECTION 3</u>				
<u>BILL NO.6</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
For preambles see "Specifications of materials and methods to be used - PW 371"				
<u>ROOFS, ETC.</u>				
<u>Sawn softwood:</u>				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	70	
2	76 x 38mm Wall plates	m	31	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	71	
<u>Sundries:</u>				
4	Two coats creosote on sawn timbers	m ²	31	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	28	
6	Hurricane clips	No	69	
<u>EAVES, VERGES, ETC.</u>				
<u>Pressed fibre-cement:</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	39	
<u>DOORS, ETC.</u>				
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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	10
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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CARPENTRY AND JOINERY

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<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	12	
<u>LOCKS</u>				
<u>Approved:</u>				
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	10	
<u>DOORSTOPS</u>				
<u>Approved:</u>				
4	38mm Diameter rubber door stop plugged	No	12	
<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	
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IRONMONGERY

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IRONMONGERY

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	<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>1,6mm Double rebated frames suitable for half brickwalls:</u>			
1	Frame for door 813 x 1883mm high	No	10	
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	2	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
4	Window type NE1, 533 x 654mm high including burglar bars	No	11	
5	Window type NE 7,1022 x 654mm high including burglar bars	No	5	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<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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	METALWORK			
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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 | 2 |
|---|---|----|---|

- | | | | |
|---|------------|----|---|
| 6 | Elbow taps | No | 2 |
|---|------------|----|---|

FITTINGS

- | | | | |
|---|---|----|---|
| 7 | 19mm chrome plated push button taps to wash troughs | No | 2 |
|---|---|----|---|

Sundries

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

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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	<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	42	
	<u>Three coats matt varnish</u>			
3	On doors (External)	m2	14	
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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	12
5	On gates (Measured over the full flat area of both sides)	m2	8
6	On gutters and down pipes	m	9
7	On windows with burglar bars	m2	5

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THE MVULA TRUST
LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE 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	38	
2	50mm Pipes laid in and including trenches not exceeding 1m deep	m	342	
	<u>Extra over Class 10 HDPE type IV pipes for fittings</u>			
3	40mm Fittings	No	40	
4	40mm Reducer	No	8	
5	40mm Bend	No	16	
6	50mm Reducer	No	8	
7	50mm Bend	No	16	
8	50mm Threaded adaptor	No	6	
	<u>Galvanised medium steel pipes with screwed and socketed joints</u>			
9	50mm Pipes	m	29	
	<u>Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings</u>			
10	50mm Fittings	No	6	
11	50mm Bush	No	6	
12	50mm Elbow	No	6	
	Carried to Collection			
	Section No. 8			
	EXTERNAL WORKS			
	Bill No. 1			
	WATER SUPPLIES			
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LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

Galvanised medium normalized mild steel piping

13	25mm Standpipes	m	9
----	-----------------	---	---

14	25mm Fittings	No	2
----	---------------	----	---

Valve boxes

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
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Sundries

16	300 x 300 x 50mm Precast concrete pipeline marker Slab set in Ground	No	1
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17	Cutting into existing water pipe	No	1
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Section No. 8
EXTERNAL WORKS
Bill No. 1
WATER SUPPLIES

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Section No. 8

Bill No. 1

WATER SUPPLIES

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 EXTERNAL WORKS
 Bill No. 1
 WATER SUPPLIES

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Item No	Quantity	Rate	Amount
<u>SECTION 6</u>			
<u>BILL NO. 2</u>			
<u>ELEVATED WATER TANKS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
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	20
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
2	Soft rock	m3	4
3	Hard rock	m3	4
	<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	16
	<u>Risk of collapse of excavations</u>		
5	Sides of trench and hole excavation not exceeding 1,5m deep	m2	88
	<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	4
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LDOE WATER & SANITATION PROGRAMME
TLAKALE MAHSASHANE SECONDARY SCHOOL

	<u>Soil insecticide</u>				
8	To bottoms and sides of trenches, etc.	m2	88		
	<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	24		
	<u>15Mpa/19mm Concrete</u>				
10	Blinding	m3	4		
	<u>25Mpa/19mm Concrete</u>				
11	Bases	m3	20		
12	Platform surface beds cast in panels	m3	32		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
13	Platform surface beds	m2	24		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
14	On top of bases	m2	24		
	<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	8		
	<u>Galvanized medium normalized mild steel piping</u>				
16	25mm Pipes	m	140		
17	50mm Pipes	m	345		
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32	10mm Diameter U-shaped holding down bolt 250mm girth fixed to columns	No	264
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33	12mm Diameter L-shaped threaded anchor bolt 350mm girth embedded in top of concrete	No	88
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PAINTWORK TO NEW WORK

ON METAL

Undercoat and minimum 2 coat gloss enamel

34	Paint to structural steel	m	1 680
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Bill No. 2
WATER TANKS

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WATER TANKS

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	<u>Compaction of surfaces</u>				
6	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	258		
	<u>Soil poisoning</u>				
7	Weedkiller (active ingredients metolachlor 102,8 g/l, terbutylazine 248,6 g/l and atrazine 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	258		
	<u>60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:</u>				
8	Paving to toilet areas etc to falls	m2	258		
9	Fig. 12 kerbs to sides of paving	m	410		
10	15Mpa/19mm unreinforced concrete in haunching	m3	18		
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Bill No. 3

PAVED WALKWAY

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 Bill No. 3
 PAVED WALKWAY

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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	120
9	Extra for fair open end	No	8
10	Extra for fair stopped end	No	8
11	Extra for angle intersection	No	18

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EXTERNAL WORKS
Bill No. 4
STORMWATER CONTROL

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STORMWATER CONTROL

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EXTERNAL WORKS

Bill No. 4

STORMWATER CONTROL

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<u>FENCING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>EXCAVATIONS</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	157
<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	46
3	Hard rock	m3	29
<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	157
<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m dee	m2	1 238
<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water	Item	
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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	2
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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	4 456
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