

6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. 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 by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

SECTION A: PRINCIPAL BUILDING AGREEMENT**DEFINITIONS**

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

Section 1
Bill No. 1
Preliminaries

	Contract instructions (Clause 17).			
17	F: V: T: Setting out of the works (Clause 18.3). 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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
24	F: V: T: Works completion (Clause 25).	Item		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				

25	F: V: T: Final completion (Clause 26). Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"	Item		
26	F: V: T: Sectional completion (Clause 28).	Item		
27	F: V: T: Revision of date for practical completion (Clause 29).	Item		
28	F: V: T: Penalty for non-completion (Clause 30).	Item		
29	F: V: T: <u>PAYMENT</u> Interim payment to the contractor (Clause 31). The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.	Item		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				

Where prices are submitted by the contractor or nominated/selected sub contractor 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.

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

Cancellation by Employer - Contractor's default (Clause 36).

34 F: V: T: Item

Cancellation by Employer - Loss and damage (Clause 37).

35 F: V: T: Item

Cancellation by Contractor - Employer's default (Clause 38).

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

The Schedule: Pre-Tender information (Clause 42).

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London**Carried to Collection**

R

Section 1
Bill No. 1
Preliminaries

CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5

Date on which possession of the site is intended to be given on :-

To be advised.

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.

Completion in Sections are required : NO

Clause 42.2.7

Intended date of practical completion and the penalty per calendar day for the works as a whole :-

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

To be advised.

Penalty amount will be 5,75c/R100 of Contract Sum.

Clause 42.2.8

Intended dates of practical completion and the penalties per calendar day for the works in sections :

N/A

Clause 42.2.9

The law applicable to this agreement shall be that of - Republic of South Africa.

INSURANCES (Clause 42.3)

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum

With a deductible of : Not exceeding 5% of each and every claim.

Clause 42.3.2

Supplementary insurance is required : Yes

SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

With a deductible of: Not exceeding 5% of each and every claim.

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

DOCUMENTS (Clause 42.4)

Clause 42.4.1

Waiver of the contractor's lien is required :- YES

Clause 42.4.2

Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

Standard System of Measuring Building Work - Seventh Edition including all amendments

Clause 42.4.4

Number of days for submission of priced documents : 5 working days from the Letter of Appointment.

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6

The contract value is to be adjusted using CPAP:- NO

SECTION B: PRELIMINARIES**DEFINITIONS AND INTERPRETATION (B1)**

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

Carried to Collection**R**Section 1
Bill No. 1
Preliminaries

	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T: Provisional Bills of Quantities (B2.2) YES Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.	Item		
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1)	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.

Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.

The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.

48	F: V: T:	Item		
	Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: V: T:	Item		
	Inspection of the Site (B3.3)			
50	F: V: T:	Item		
	Existing premises occupied (B3.4)			
51	F: V: T:	Item		
	Previous work - dimensional accuracy (B3.5)			
52	F: V: T:	Item		
	Previous work - defects (B3.6)			
53	F: V: T:	Item		
	Services - known (B3.7)			
54	F: V: T:	Item		
	Services - unknown (B3.8)			
55	F: V: T:	Item		
	Protection of trees (B3.9)			

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

56	F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: Inspection of adjoining properties (B3.11)	Item		
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
59	F: V: T: Programme for the Works (B4.2)	Item		
60	F: V: T: Progress meetings (B4.3)	Item		
61	F: V: T: Technical meetings (B4.4)	Item		
62	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
63	F: V: T: Workmanship samples (B5.2)	Item		
64	F: V: T: Shop drawings (B5.3)	Item		
65	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	Item		
Section 1 Bill No. 1 Preliminaries		Carried to Collection		R

66 F: V: T:

Item

Enclosure of the works (B6.2)

The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.

67 F: V: T:

Item

Advertising (B6.3)

68 F: V: T:

Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

Section 1
Bill No. 1
Preliminaries

Section 1
Bill No. 1
Preliminaries

SECTION C: SPECIFIC PRELIMINARIES**Section C: Specific Preliminaries:****C1. Proprietary branded products**

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

94 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

95 F: V: T:

Item

C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

C4. Overtime

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 the execution thereof, that costs for such overtime are to be borne by the employer.

97 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract 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. The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
99	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record 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, currently used on the works.	Item		
101	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
102	F: V: T: C10. Method Statement	Item		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				

	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item		
104	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item		
105	F: V: T:	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T:	Item		
	C16. Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.			
110	F: V: T:	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

[illegible]

[illegible]

[illegible]

Rate

Amount

R

The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.		Item
2	Submission of the Health and Safety File.		Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item
5	Provision of full time Health and Safety Officer for the entire construction period.		Item
6	Induction training of personnel.	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	280
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	2

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	No	25
11	Hard hats.	No	25
12	Protective foot wear.	No	25
13	Ear Plugs.	No	75

Carried to Collection

R

Section 1
Bill No. 2
Health and Safety

[illegible]

[illegible]

-170-

Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 1</u>			
	<u>SUNDRY BUILDERS WORK - ALL TRADES</u>			
	<u>Quantity Split:</u>			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	<u>ALTERATIONS</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>			
1	Steps	m3	2	
2	80mm thick ramps and walkways	m2	6	
3	300 x 400mm Portion of 100mm thick slab	No	1	
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
4	Remove VIP 250 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).	No	3	
	<u>Sundries</u>			
5	Install galvanised steel padbolt striker plate with gate stopper, stopping gate from opening outwards	No	4	
6	Install overflow pipe to water storage tank	No	4	
7	Inspect and fix all leaks on plumbing installation	Item		
	Carried to Collection			
	Section 2			
	Bill No. 1			
	Sundry Builders Work			

PREPARATORY WORK TO EXISTING SURFACES

- | | | | |
|---|---|----|----|
| 8 | Making good defects in existing screeded floors with "Pavelite" | m2 | 12 |
|---|---|----|----|

IRONMONGERY**BATHROOM FITTINGS****Stainless steel bathroom fittings**

- | | | | |
|---|--|----|---|
| 9 | Free standing She Bin; manufactured from Grade 304 1,2/1,5mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity. | No | 8 |
|---|--|----|---|

PLUMBING AND DRAINAGE (PROVISIONAL)**MODEL PREAMBLES**

The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates

SANITARY FITTINGS

Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:

- | | | | |
|----|---|----|---|
| 10 | VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. | No | 3 |
|----|---|----|---|

Sanitary fitting sundries

- | | | | |
|----|--|----|----|
| 11 | Satin chrome thief proof toilet roll holder, PWD Sample 71, plugged to wall. | No | 20 |
| 12 | Heavy-duty double-flap hinged toilet seat and cover. | No | 10 |

SANITARY PLUMBING

Carried to Collection

R

Section 2
Bill No. 1
Sundry Builders Work

	<u>PVC waste or vent pipes and fittings:</u>				
13	50mm Waste pipe.	m	6		
	<u>Extra for:</u>				
14	50mm Bend.	No	8		
15	50mm Access bend.	No	4		
	<u>WATER SUPPLIES</u>				
	<u>Polycop pipes:</u>				
	Pipes shall be class 10.				
	<u>Fixing of pipes</u>				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
	<u>Polycop pipes chased in walls:</u>				
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.				
	<u>Reducing fittings:</u>				
	Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.				
	<u>Class 10 Polycop pipes:</u>				
16	15mm Pipe.	m	25		
17	22mm Pipe.	m	30		
	Carried to Collection			R	
	Section 2				
	Bill No. 1				
	Sundry Builders Work				

Extra over polycop pipes for compression fittings:

18	15mm Fittings.	No	18
----	----------------	----	----

19	22mm Fittings.	No	6
----	----------------	----	---

Galvanised Steel Pipe

20	22mm galvanised steel pipe	m	12
----	----------------------------	---	----

Taps, valves, etc.**Solid cast brass taps, valves, etc.**

21	Bib Tap or Similar approved	No	4
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Carried to Collection

R

Section 2
 Bill No. 1
 Sundry Builders Work

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>THE FOLLOWING IN WALKWAYS</u>			
	<u>Cutting out and breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>			
1	80mm thick ramps and walkways	m2	14	
	<u>Excavation not exceeding 2m deep</u>			
2	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	2	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
3	Off site to a dumping site to be found by the Contractor.	m3	1	
	<u>Filling supplied by the contractor under walkways</u>			
4	G7 Base course material compacted to 98% Mod AASHTO density	m3	1	
5	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2	
	Carried to Collection			
	Section 3			
	Bill No. 1			
	External Works			
			R	

	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
6	Under floors, etc.	m2	1		
	<u>Prescribed density tests on filling:</u>				
7	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
8	Ramps, Landings, etc.	m3	1		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
9	Surface beds, slabs, etc to falls and currents.	m2	14		
	<u>Test blocks:</u>				
10	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
11	12mm Joints not exceeding 300mm high.	m	12		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
12	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	12		
	<u>Fabric reinforcement:</u>				
13	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	14		
	<u>Waterproofing under Surface beds</u>				
14	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	14		
Carried to Collection					R
Section 3					
Bill No. 1					
External Works					

- 1

Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.

- 2

R

-178-

**THE FOLLOWING IN ONE BRICK WALL
(GARDEN WALL)**

Excavation in earth not exceeding 2m deep:

17	Trenches.	m3	109
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Extra over trench and hole excavations in earth for excavation in:

18	Soft rock.	m3	33
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19	Hard rock.	m3	22
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20	Reinforced concrete	m3	22
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Extra over all excavations for carting away:

21	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	78
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Risk of collapse of excavations:

22	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	435
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Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:

23	Backfilling to trenches, holes, etc.	m3	51
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Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:

24	Under footings.	m3	23
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Compaction of surfaces

25	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 90% Mod AASHTO density.	m2	104
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Carried to Collection

R

Section 3
Bill No. 1
External Works

	<u>25 Mpa/19mm Concrete</u>				
26	Strip footings.	m3	31		
	<u>Test blocks:</u>				
27	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Reinforcement (Provisional)</u>				
28	High tensile steel reinforcement bars to structural concrete work.	t	3.12		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
29	One brick walls.	m2	93		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
30	One brick walls.	m2	155		
	<u>Brickwork reinforcement:</u>				
31	230mm Wide reinforcement built in horizontally.	m	621		
32	Ditto but in foundations.	m	1 242		
	<u>FACE BRICK</u>				
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
33	One brickwall faced on both sides.	m2	435		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

34	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u> 230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	311	
	Section 3 Bill No. 1 External Works			R

Carried to Collection

STORMWATER CHANNELSExcavation not exceeding 2m deep

- | | | | |
|----|--|----|----|
| 35 | Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 75 |
|----|--|----|----|

Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

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|----|---|----|----|
| 36 | Off site to a dumping site to be found by the Contractor. | m3 | 75 |
|----|---|----|----|

Filling supplied by the contractor under channels

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|----|---|----|----|
| 37 | G7 Base course material compacted to 98% Mod AASHTO density | m3 | 37 |
|----|---|----|----|

- | | | | |
|----|--|----|----|
| 38 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. | m3 | 37 |
|----|--|----|----|

Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.

- | | | | |
|----|--|---|-----|
| 39 | 700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc. | m | 207 |
|----|--|---|-----|

- | | | | |
|----|-----------------------|----|----|
| 40 | Extra for 700mm angle | No | 18 |
|----|-----------------------|----|----|

- | | | | |
|----|---|----|---|
| 41 | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones. | No | 3 |
|----|---|----|---|

THE FOLLOWING IN DISABLED ACCESS**Carried to Collection****R**

Section 3
Bill No. 1
External Works

SCREEN WALLExcavation in earth not exceeding 2m deep:

42	Trenches.	m3	4
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Extra over all excavations for carting away:

43	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	2
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Risk of collapse of excavations:

44	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	12
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Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:

45	Backfilling to trenches, holes, etc.	m3	2
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Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:

46	Under footings.	m3	1
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Compaction of surfaces

47	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 90% Mod AASHTO density.	m2	4
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25 Mpa/19mm Concrete

48	Strip footings.	m3	1
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Test blocks:

49	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4
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Carried to Collection**R**

Section 3
Bill No. 1
External Works

	<u>Reinforcement (Provisional)</u>				
50	High tensile steel reinforcement bars to structural concrete work.	t	0.40		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
51	One brick walls.	m2	4		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
52	One brick walls.	m2	6		
	<u>Brickwork reinforcement:</u>				
53	230mm Wide reinforcement built in horizontally.	m	36		
54	Ditto but in foundations.	m	18		
	<u>FACE BRICK</u>				
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
55	One brickwall faced on both sides.	m2	24		
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>				
56	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	24		
	<u>ACCESS RAMPS</u>				
Carried to Collection					R
Section 3					
Bill No. 1					
External Works					

	<u>Excavation not exceeding 2m deep</u>				
57	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	4		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
58	Off site to a dumping site to be found by the Contractor.	m3	4		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
59	G7 Base course material compacted to 98% Mod AASHTO density	m3	4		
60	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	4		
	<u>Coarse river sand filling supplied by the contractor:</u>				
61	Under floors etc.	m3	1		
	<u>Compaction of surfaces:</u>				
62	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 90% Mod AASHTO density.	m2	7		
	<u>Prescribed density tests on filling:</u>				
63	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
64	Ramps, Landings, etc.	m3	4		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
65	Surface beds, slabs, etc to falls and currents.	m2	7		
Carried to Collection					R
Section 3					
Bill No. 1					
External Works					

Waterproofing under Surface beds

R

-186-

THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.**STORMWATER APRONS**Excavation not exceeding 2m deep

71	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	44
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

72	Off site to a dumping site to be found by the Contractor.	m3	44
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Filling supplied by the contractor under floors, aprons, etc

73	G7 Base course material compacted to 98% Mod AASHTO density	m3	22
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74	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	22
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Coarse river sand filling supplied by the contractor:

75	Under floors etc.	m3	7
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Compaction of surfaces:

76	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 90% Mod AASHTO density.	m2	145
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Prescribed density tests on filling:

77	In-situ dry density test.	No	4
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Reinforced 25Mpa/19mm Concrete:

78	Surface beds cast in panels on waterproofing.	m3	15
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Carried to Collection**R**

Section 3
Bill No. 1
External Works

79	Edge thickening	m3	26		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
80	Surface beds, slabs, etc to falls and currents.	m2	145		
	<u>Test blocks:</u>				
81	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
82	12mm Joints not exceeding 300mm high.	m	145		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
83	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	145		
	<u>Fabric reinforcement:</u>				
84	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	145		
	<u>Waterproofing under Surface beds</u>				
85	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	145		

Carried to Collection

R

Section 3
Bill No. 1
External Works

STORMWATER CHANNELSExcavation not exceeding 2m deep

- | | | | |
|----|--|----|----|
| 86 | Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 39 |
|----|--|----|----|

Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

- | | | | |
|----|---|----|----|
| 87 | Off site to a dumping site to be found by the Contractor. | m3 | 39 |
|----|---|----|----|

Filling supplied by the contractor under channels

- | | | | |
|----|---|----|----|
| 88 | G7 Base course material compacted to 98% Mod AASHTO density | m3 | 20 |
|----|---|----|----|

- | | | | |
|----|--|----|----|
| 89 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. | m3 | 17 |
|----|--|----|----|

Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.

- | | | | |
|----|---|---|-----|
| 90 | 700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc. | m | 162 |
|----|---|---|-----|

- | | | | |
|----|-----------------------|----|----|
| 91 | Extra for 700mm angle | No | 12 |
|----|-----------------------|----|----|

- | | | | |
|----|---|----|---|
| 92 | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones. | No | 1 |
|----|---|----|---|

Carried to Collection**R**

Section 3
Bill No. 1
External Works

<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>			
<u>Site Clearance, ETC</u>			
93	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	302
<u>Excavation in earth not exceeding 2m deep:</u>			
94	Trenches.	m3	1 080
<u>Extra over trench and hole excavations in earth for excavation in:</u>			
95	Soft rock.	m3	181
96	Hard rock.	m3	121
<u>Extra over all excavations for carting away:</u>			
97	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	101
<u>Risk of collapse of excavations:</u>			
98	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	1 296
99	Ditto, but from ground level to exceeding 1,5m.	m2	864
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
100	Backfilling to trenches, holes, etc.	m3	868
<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>			
101	19mm Stone.	m3	52
Carried to Collection			
Section 3			
Bill No. 1			
External Works			

R

Membrane

Keeping excavations free of water:

Compaction of surfaces

R

-191-

<u>SOIL DRAINAGE</u>					
<u>160mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>					
105	160mm uPVC pipe.	m	432		
<u>Extra for:</u>					
106	160mm Tee.	No	4		
107	160mm Bend.	No	2		
108	160mm Y junction.	No	1		
<u>THE FOLLOWING IN SOAKAWAY</u>					
<u>Site Clearance, Etc</u>					
109	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	4		
<u>Excavation in earth not exceeding 2m deep:</u>					
110	Holes	m3	9		
<u>Extra over trench and hole excavations in earth for excavation in:</u>					
111	Soft rock.	m3	3		
112	Hard rock.	m3	2		
<u>Extra over all excavations for carting away</u>					
113	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	18		
<u>Risk of collapse of excavations</u>					
114	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	36		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density

Section 3
Bill No. 1
External Works

R

THE FOLLOWING IN SECURITY FENCING, ETCSite clearance

132	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	304
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Straining wires, fencing and razor wire:

133	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	1 216
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134	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	912
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135	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	304
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Posts for 1 800mm high security fence:

136	60mm Diameter galvanised steel intermediate fencing post 2400mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	122
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137	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	4
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138	150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	8
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Carried to Collection**R**

Section 3
Bill No. 1
External Works

139	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	24		
140	Form 12mm diameter hole through fence post.	No	24		
	<u>Gates:</u>				
141	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
142	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	2		
	<u>PADLOCKS</u>				
143	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	3		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

Section 3

Bill No. 1

External Works

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

Carried Forward

R

Section 3

Bill No. 1

External Works

Section 3

Bill No. 1

External Works

COLLECTION

Brought Forward

**Page
No**

Amount

R

Total Brought Forward from Page No.

196

Carried to Final Summary

R

Section 3

Bill No. 1

External Works

**Page
No**

1	PRELIMINARIES
2	BUILDING WORKS
3	EXTERNAL WORKS (PROVISIONAL)
4	PROVISIONAL SUMS

175

198

199

R

Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.

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