

PREAMBLES FOR TRADES

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

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

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

GENERAL

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

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- 1 Definitions and interpretation (clause 1)

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

Item

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R

Section No. 1
PRELIMINARIES
Bill No. 1
PRELIMINARIES

CONSTRUCTION OF WATER AND SANITTATION AT RAMOKGABUDI SECONDARY SCHOOL

<u>Objective and Preparation (A2 to A14)</u>	
2 Offer acceptance and performance (clause 2) F:..... V:..... T:.....	Item
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	Item
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	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			
6	Site representative (clause 6)			
	F:..... V:..... T:.....	Item		
7	Compliance with regulations (clause 7)			
	F:..... V:..... T:.....	Item		
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		
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13	NO CLAUSE	N/A		
14	Security (clause 14) F:..... V:..... T:.....	Item		
	<u>Execution (A15-A23)</u>			
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
16	Access to the works (clause 16) F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17) F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18) F:..... V:..... T:..... The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item		
19	Assignment (clause 19) F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item		
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20	Nominated subcontractors (clause 20)				
	F:..... V:..... T:.....	Item			
21	Selected subcontractors (clause 21)				
	F:..... V:..... T:.....	Item			
	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				
	All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors				
22	Employer's Direct Contractors (clause 22)				
	F:..... V:..... T:.....	Item			
23	Contractor's Domestic Sub-Contractors (Clause 23)				
	F:..... V:..... T:.....	Item			
	<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24)				
	F:..... V:..... T:.....	Item			
25	Works completion (clause 25)				
	F:..... V:..... T:.....	Item			
26	Final completion (clause 26)				
	F:..... V:..... T:.....	Item			
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27	Latent defects liability period (clause 27)			
	F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28)			
	F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29)			
	F:..... V:..... T:.....	Item		
	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)			
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:.....	Item		
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	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			
33	Recovery of expense and loss (clause 33)			
	F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34)			
	F:..... V:..... T:.....	Item		
	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			
35	Payment to other parties (clause 35)			
	F:..... V:..... T:.....	Item		
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<u>Cancellation (A36-A39)</u>				
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item		
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....	Item		
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....	Item		
<u>Dispute (A40)</u>				
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
<u>Substitute Provisions (A41)</u>				
41	State clauses (Clause 41) F:..... V:..... T:..... Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item		
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THE SCHEDULE

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

42 Pre-tender information (clause 42)

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

Item

42.1 CONTRACTING AND OTHER PARTIES

42.1.1

Employer: As per infomation on the tender data

42.1.2

Principal Agent: As per the infomation on the Tender data

42.1.3

Architect:
Afro Architectural

42.1.4

Quantity Surveyor:

Structural :

42.1.5 Civil:

42.1.6

Electrical Engineer:

42.1.6

Mechanical Engineer:

42.2 CONTRACT DETAILS

42.2.1 Works Description: Construction of sanitation facilities

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42.2.2 Site Description: as per the infomation on the tender data				
42.2.3 Work or installations by direct contractors: N/A				
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: UNKNOWN				
42.2.6 Period for the commencement of the works after the contractor takes posse				
42.2.7 For the works as a whole . Intended date of practical completion and the penalty per calendar day 3 months after contractual commencement date <i>Date</i> <i>Penalty Amount</i> <i>The penalty per calender day shall be 0.05% of the tenderd amount (inclusive of value added tax)</i>				
42.2.8 For the works in sections : Intended date of practical completion and the penalty per calendar day Section 1 .N/A..... <i>Date</i> R.N/A..... Penalty Amount				
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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 + 20.00 %

With a deductible of - to be determined by the contractor

42.3.2 Supplementary insurance is required

No

42.3.3 Public liability insurance to be effected by:

Contractor:

For the Sum of R 2 500 000-00

With a deductible of - to be determined by the contractor

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 **working days**

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

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

No

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

Yes

Where **JBCC CPAP** is to be used

Base Month July 2010

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

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

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48	Priced documents (B2.5) F:..... V:..... T:.....	Item		
49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
50	Defined works area (B3.1) F:..... V:..... T:..... <u>The site (B3)</u>	Item		
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:..... Existing premises occupied (B3.4) F:..... V:..... T:..... Previous work - dimensional accuracy (B3.5) F:..... V:..... T:..... Previous work - defects (B3.6) F:..... V:..... T:.....	Item		
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53	Services - known (B3.7)				
	F:..... V:..... T:.....	Item			
54	Services - unknown (B3.8)				
	F:..... V:..... T:.....	Item			
55	Protection of trees etc (B3.9)				
	F:..... V:..... T:.....	Item			
56	Articles of value (B3.10)				
	F:..... V:..... T:.....	Item			
	<u>Management of contract (B4)</u>				
57	Inspection of adjoining properties etc (B3.11)				
	F:..... V:..... T:.....	Item			
58	Management of the works (B4.1)				
	F:..... V:..... T:.....	Item			
59	Programme for the works (B4.2)				
	F:..... V:..... T:.....	Item			
60	Progress meetings (B4.3)				
	F:..... V:..... T:.....	Item			
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61	Technical meetings (B4.4)				
	F:..... V:..... T:.....	Item			
62	Labour and Plant records (B4.5)				
	F:..... V:..... T:.....	Item			
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>				
63	Samples of materials (B5.1)				
	F:..... V:..... T:.....	Item			
64	Workmanship samples (B5.2)				
	F:..... V:..... T:.....	Item			
65	Shop drawings (B5.3)				
	F:..... V:..... T:.....	Item			
66	Compliance with Manufacturer's Instructions (B5.4)				
	F:..... V:..... T:.....	Item			
	<u>Temporary works and plant (B6)</u>				
67	Deposits and fees (B6.1)				
	F:..... V:..... T:.....	Item			
68	Enclosure of the works (B6.2)				
	F:..... V:..... T:.....	Item			
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69	Advertising (B6.3)				
	F:..... V:..... T:.....	Item			
70	Plant, equipment, sheds and offices (B6.4)				
	F:..... V:..... T:.....	Item			
71	Main notice board (B6.5)				
	F:..... V:..... T:.....	Item			
72	Subcontractors' notice board (B6.6)				
	F:..... V:..... T:.....	N/A			
	<u>Temporary services (B7)</u>				
73	Location (B7.1)				
	F:..... V:..... T:.....	Item			
74	Water (B7.2)				
	Option [A] shall apply				
	F:..... V:..... T:.....	Item			
75	Electricity (B7.3)				
	Option [A] shall apply				
	F:..... V:..... T:.....	Item			
76	Telecommunication facilities (B7.4)				
	F:..... V:..... T:.....	Item			
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77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:..... <u>Prime cost amounts (B8)</u>	Item		
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:..... <u>Attendance on N/S Subcontractors (B9)</u>	Item		
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:..... <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		
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83	Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
85	Protection of works (B11.1) F:..... V:..... T:.....	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item		
87	Security of the Works (B11.3) F:..... V:..... T:.....	Item		
88	Notice before covering work (B11.4) F:..... V:..... T:.....	Item		
89	Disturbance (B11.5) F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
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91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
92	Vermin (B11.8) F:..... V:..... T:.....	Item		
93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
<u>Schedule of variables (B12)</u>				
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:				
			No	
12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete				
			No	
12.1.3 Interest of agents (B2.4)				
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CONSTRUCTION OF WATER AND SANITTATION AT RAMOKGABUDI SECONDARY SCHOOL

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SECTION C: SPECIFIC PRELIMINARIES

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

98 Site instructions

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

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

Item

99 Black economic empowerment and training

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

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:.....

Item

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

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102	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor	Item		
103	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
104	Plant record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week	Item		
105	Guarantees F:..... V:..... T:.....	Item		
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	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			
106	Overtime F:..... V:..... T:..... 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	Item		
107	Co-operation of contractor for cost management F:..... V:..... T:.....	Item		
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108	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 Occupational Health and Safety Specification F:..... V:..... T:..... 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 <u>SUMMARY OF CATEGORIES</u> Category : Fixed R..... Category : Value R..... Category : Time R..... Carried to Collection Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES	Item		
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Item No		Quantity	Rate	Amount
<u>SECTION NO.2</u>				
<u>BILL NO.1</u>				
<u>STEEL PALLISADE FENCING</u>				
<u>THE FOLLOWING IN STEEL PALLISADE FENCING</u>				
<u>EXCAVATIONS</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	2 550	
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	227	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	35	
4	Hard rock	m3	36	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	353	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1 968	
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	<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water		Item		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	194		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/20mm concrete</u>				
9	Bases	m3	94		
	<u>TEST CUBES</u>				
10	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
	<u>FENCING</u>				
	<u>Steel pallisade as per attached drawings complete, the fence painted on both sides (colour to architects)</u>				
11	Steel palisade fence 1,80m high with a maximum of twenty eight pales per 3.0m sections, consisting of 30 x 30 x 3mm vertical angle iron with "Metawall trident head" or similar approved, centred at 133mm between each other, welded to horizontal top and bottom support, including stabilizer at centre of bottom horizontal	m	890		
12	2400mm High steel square posts 76 x 76 x 3mm with closing pyramid caps on top cast into 600mm deep concrete base.	No	285		
	<u>ON METAL</u>				
	<u>GATES, ETC.</u>				
13	Pedestrian gate size 1500 x 1800mm high including rectangular tubes, flat bars, steel angle etc, supplied and delivered to site. Painted on both sides	No	1		
Carried to Collection				R	
Section No. 2 EXTERNAL WORKS Bill No. 1 FENCING					

CONSTRUCTION OF WATER AND SANITTATION AT RAMOKGABUDI SECONDARY SCHOOL

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CONSTRUCTION OF WATER AND SANITTATION AT
RAMOKGABUDI SECONDARY SCHOOL

Section No. 2

EXTERNAL WORKS

Bill No. 1

FENCING

COLLECTION

Total Brought Forward from Page No.

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No

Amount

29

30

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R

Section No. 2
EXTERNAL WORKS
Bill No. 1
FENCING

**CONSTRUCTION OF WATER AND SANITTATION AT
RAMOKGABUDI SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 2</u>			
	<u>SUBBASE</u>			
	<u>Construct subbase cours with material from commercial sources</u>			
1	150 mm thick G5 Material layer compacted to 95% Mod AASHTO	m3	27	
	<u>SEGMENTED PAVING</u>			
	<u>Construction of paving complete</u>			
2	60mm interlocking bricks	m2	180	
3	Rolling to lock-up	m2	180	
4	Send bed 25mm thick for paving	m3	8	
5	Cutting units to fit	m	15	
	<u>KERBING AND CHANNELLING</u>			
	<u>Precast semi mountable kerbing</u>			
6	Figure 7 pre-cast concrete kerbs.	m	240	
7	Curved	m	30	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	EXTERNAL WORKS			
	Bill No. 2			
	PAVING AND KERBS			

CONSTRUCTION OF WATER AND SANITTATION AT RAMOKGABUDI SECONDARY SCHOOL

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CONSTRUCTION OF WATER AND SANITTATION AT RAMOKGABUDI SECONDARY SCHOOL

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