

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u>			
	<u>BILL No.1</u>			
	<u>PRELIMINARIES</u>			
	1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.			
	2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.			
	3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.			
	4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.			
	5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.			
	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.			
	Carried to Collection		R	
	Section 1			
	Bill No. 1			
	Preliminaries			

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

	Works risk (Clause 8)		
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item	
9	F: V: T: Works insurances (Clause 10).	Item	
10	F: V: T: Liability insurances (Clause 11).	Item	
11	F: V: T: Effecting insurances (Clause 12).	Item	
12	F: V: T: State Provisions (Clause 13).	Item	
13	F: V: T: Security (Clause 14).	Item	
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item	
15	F: V: T: Access to the works (Clause 16).	Item	
16	F: V: T: Contract instructions (Clause 17).	Item	
	Carried to Collection		R
	Section 1 Bill No. 1 Preliminaries		

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		
25	F: V: T: Final completion (Clause 26).	Item		
Section 1 Bill No. 1 Preliminaries		Carried to Collection		
		R		

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"

26 F: V: T:

Item

Sectional completion (Clause 28).

27 F: V: T:

Item

Revision of date for practical completion (Clause 29).

28 F: V: T:

Item

Penalty for non-completion (Clause 30).

29 F: V: T:

Item

PAYMENT

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.

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 :-

To be advised.

Carried to Collection

Section 1
Bill No. 1
Preliminaries

R

Penalty amount will be R 2000.00 per Calendar day to a maximum of 10% of Contract Value.

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 plus 10%

With a deductible of : 5% of insured amount

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: 5% of insured amount

DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

Carried to Collection

Section 1
Bill No. 1
Preliminaries

R

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)

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:

Item

Provisional Bills of Quantities (B2.2) YES

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

	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.			
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)	Item		
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1) 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.	Item		
48	F: V: T:	Item		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries			

	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)			
56	F: V: T:	Item		
	Articles of value (B3.10)			
57	F: V: T:	Item		
	Inspection of adjoining properties (B3.11)			
58	F: V: T:	Item		
	<u>MANAGEMENT OF CONTRACT (B4)</u>			
	Management of the Works (B4.1)			
59	F: V: T:	Item		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries			

	Programme for the Works (B4.2)			
60	F: V: T:	Item		
	Progress meetings (B4.3)			
61	F: V: T:	Item		
	Technical meetings (B4.4)			
62	F: V: T:	Item		
	SAMPLES AND SHOP DRAWINGS (B5)			
	Samples of materials (B5.1)			
63	F: V: T:	Item		
	Workmanship samples (B5.2)			
64	F: V: T:	Item		
	Shop drawings (B5.3)			
65	F: V: T:	Item		
	TEMPORARY WORKS AND PLANT (B6)			
	Deposits and fees (B6.1)			
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			

	Plant and equipment (B6.4)			
69	F: V: T:	Item		
	Main notice board (B6.5)			
	One notice board shall be provided by the Contractor			
70	F: V: T:	Item		
	Subcontractors notice board (B6.6) (N/A)			
71	F: V: T:	Item		
	<u>TEMPORARY SERVICES (B7)</u>			
	Location (B7.1)			
72	F: V: T:	Item		
	Water (B7.2)			
	The contractor shall provide water for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
73	F: V: T:	Item		
	Electricity (B7.3)			
	The contractor shall provide electricity for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
74	F: V: T:	Item		
	Telecommunication equipment (B7.4)			
	The contractor shall provide telephones on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
75	F: V: T:	Item		
	Carried to Collection		R	
	Section 1			
	Bill No. 1			
	Preliminaries			

	Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). 76 F: V: T: <u>PRIME COST AMOUNTS (B8)</u> Responsibility for prime cost amounts (B8.1) 77 F: V: T: <u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u> General Attendance (B9.1) 78 F: V: T: Special Attendance (B9.2) 79 F: V: T: Commissioning - fuel, water and power (B9.3) 80 F: V: T: <u>FINANCIAL ASPECTS (B10)</u> Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT). 81 F: V: T: Payment of Preliminaries (B10.2) 82 F: V: T: Adjustment of Preliminaries (B10.3) 83 F: V: T: Payment certificate cash flow (B10.4) Carried to Collection Section 1 Bill No. 1 Preliminaries	Item Item Item Item Item Item Item Item		
			R	

84	F: V: T: Contractor information supply (B10.5)	Item		
85	F: V: T: <u>GENERAL (B11)</u> Protection of the Works (B11.1)	Item		
86	F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2)	Item		
87	F: V: T: Site security (B11.3)	Item		
88	F: V: T: Notice before covering work (B11.4)	Item		
89	F: V: T: Disturbance (B11.5)	Item		
90	F: V: T: Works cleaning and clearing (B11.6)	Item		
91	F: V: T: Vermin (B11.7)	Item		
92	F: V: T: Overhand work (B11.8)	Item		
93	F: V: T:	Item		
Carried to Collection			R	
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

C4. Overtime

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

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: 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.	Item		
110	F: V: T:	Item		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				

111	SUB - TOTAL: FIXED ITEMS	Item		
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
113	SUB - TOTAL: TIME - RELATED ITEMS	Item		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				

Section 1
Bill No. 1
Preliminaries
COLLECTION

Total Brought Forward from Page No.

Page No	Amount
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	

Carried Forward

R

Section 1
Bill No. 1
Preliminaries

Section 1

Bill No. 1

Preliminaries

COLLECTION

Brought Forward

Total Brought Forward from Page No.

**Page
No**

Amount

R

22

23

Carried Forward to Summary of Section No. 1

R

Section 1

Bill No. 1

Preliminaries

Carried to Collection

Section 1
Bill No. 2
Health and Safety

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 |
| 7 | Provision of first aid boxes. | No |

Provision for Personal Protective Equipment and Protective Clothing:

- | | | |
|----|-----------------------|----|
| 8 | Reflective vests. | No |
| 9 | Hard hats. | No |
| 10 | Protective foot wear. | No |
| 11 | Ear Plugs. | No |
| 12 | Dust Masks. | No |

Costs of Medical Certificates and Medical Surveillance:

- | | | |
|----|--|----|
| 13 | Initial (baseline) medical examinations. | No |
| 14 | Exit Examinations. | No |

Noise Monitoring:

- | | | |
|----|-------------------------------|----|
| 15 | Establishment of noise zones. | No |
| 16 | Audiograms. | No |

Carried to Collection

R

Section 1
Bill No. 2
Health and Safety

Section 1
Bill No. 2
Health and Safety

COLLECTION

Total Brought Forward from Page No.

Page No	Amount
26	
27	

Carried Forward to Summary of Section No. 1
Section 1
Bill No. 2
Health and Safety

R

Section 1

SECTION SUMMARY - PRELIMINARIES

**Bill
No**

Preliminaries
Health and Safety

**Page
No**

25
28

Amount

Carried to Final Summary

Section 1

R

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 1</u>			
<u>DEMOLITIONS</u>			
<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
<u>General</u>			
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent. Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.			
Carried to Collection			
			R
Section 2 Bill No. 1 Demolitions			

Removal of asbestos material

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

The following shall apply in respect of asbestos removal

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

Carried to Collection

Section 2
Bill No. 1
Demolitions

R

DEMOLISHING AND REMOVING

- 1 Demolish existing structure comprising of timber walls roofed with metal roof sheeting, approximate size 12 x 8m wide with 3,5m high top structure including concrete slabs.
- 2 Cart away rubble from demolitions and dispose off site.

No

1

Item

Carried to Collection

R

Section 2
Bill No. 1
Demolitions

Section 2

Bill No. 1

Demolitions

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

30

31

32

Carried to Final Summary

R

Section 2
Bill No. 1
Demolitions

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 1</u>			
<u>ALTERATIONS, DEMOLITIONS, ETC.</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:			
A1 - DWG 20 - Female Learner ablution			
A6 - DWG 16 - Female learner ablution			
AD - DWG 11 - Male Learner ablution			
AE - Renovations to existing ablutions			
G - General			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
<u>General</u>			
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.			
Carried to Collection			R
Section 3			
Bill No. 1			
Alterations			

Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.

Removal of asbestos material

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

The following shall apply in respect of asbestos removal

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

Carried to Collection

R

Section 3
Bill No. 1
Alterations

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	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	400		
	A1 : 0 A6 : 0 AD : 0 AE : 0				
	G : 400				
2	Extra over mesh fence for double leaf gate size 5.5 x 1,8m high.	No	1		
	A1 : 0 A6 : 0 AD : 0 AE : 0				
	G : 1				

REMOVAL OF EXISTING WORK

Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely

3	Asbestos roof covering including timber purlins, underlay, etc.	m2	169		
	A1 : 0 A6 : 0 AD : 0 AE : 169				
	G : 0				
4	Provision of a certificate of safe disposal for asbestos.		Item		
5	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	108		
	A1 : 0 A6 : 0 AD : 0 AE : 108				
	G : 0				
6	Barge boards and fixings	m	14		
	A1 : 0 A6 : 0 AD : 0 AE : 14				
	G : 0				
7	Fascia boards and fixings	m	20		
	A1 : 0 A6 : 0 AD : 0 AE : 20				
	G : 0				
8	Rainwater gutters and fixings	m	20		
	A1 : 0 A6 : 0 AD : 0 AE : 20				
	G : 0				
9	Rainwater downpipes and fixings	m	16		
	A1 : 0 A6 : 0 AD : 0 AE : 16				
	G : 0				

Carried to Collection

R

Section 3
Bill No. 1
Alterations

Taking out and removing sundry sanitary fittings, etc

Sanitaryware

10	Remove and cart away white glazed WC pan and cistern complete including stopping off water supply.	No	8
	A1 : 0 A6 : 0 AD : 0 AE : 8		
	G : 0		

11	Remove and cart away white glazed bowl urinal including flushing system including stopping off water supply.	No	3
	A1 : 0 A6 : 0 AD : 0 AE : 3		
	G : 0		

Sundries

12	Take down and cart away toilet roll holders.	No	7
	A1 : 0 A6 : 0 AD : 0 AE : 7		
	G : 0		

Breaking up and removing reinforced concrete

13	A three step concrete staircase at entrance of demolished timber classroom.	m3	2
	A1 : 0 A6 : 0 AD : 0 AE : 2		
	G : 0		

Break down and remove brickwork etc

14	Half brick walls	m2	20
	A1 : 0 A6 : 0 AD : 0 AE : 20		
	G : 0		

15	One brick walls	m2	14
	A1 : 0 A6 : 0 AD : 0 AE : 14		
	G : 0		

Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc

16	Average 30mm Screed from floors.	m2	108
	A1 : 0 A6 : 0 AD : 0 AE : 108		
	G : 0		

Carried to Collection

R

Section 3
Bill No. 1
Alterations

<u>Timber doors and frames</u>					
17	Take out from one brick wall and cart away steel single size 813mm wide x 1800mm high including preparing reveals to receive new frame (elsewhere). A1 : 0 A6 : 0 AD : 0 AE : 20 G : 0	No	20		
<u>BUILDING UP OPENINGS</u>					
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>					
18	One brick walls A1 : 0 A6 : 0 AD : 0 AE : 5 G : 0	m2	5		
<u>PREPARATORY WORKS, ETC.</u>					
<u>Prepare existing surfaces for new finish</u>					
19	Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish A1 : 0 A6 : 0 AD : 0 AE : 308 G : 0	m2	308		
<u>Taking out and removing glass and mirrors, etc</u>					
20	Glass from steel windows including cleaning out rebates and preparing for new glass (new glass elsewhere) A1 : 0 A6 : 0 AD : 0 AE : 32 G : 0	m2	32		
<u>Maintenance work to existing Modular ablution block (Grade R)</u>					
21	Allow provisional sum of R50 000.00 for minor repairs to existing modular ablution block.	Item			50 000.00
22	Add: Mark-up			%	
Carried to Collection				R	
Section 3 Bill No. 1 Alterations					

SERVICE

Steel Windows

- 23 Service window by means of changing windows stays, handles etc. including lubricating all ironmongery and leave in good workable condition.

A1 : 0 A6 : 0 AD : 0 AE : 32

G : 0

No

32

PRE-FABRICATED CLASSROOMS

Pricing

NOTE: Shop drawings / Specifications will be required for approval by the Principal Agent BEFORE temporary structures are build.

Supply and Install Pre-fabricated Classrooms, comprising of:

- Walls made of 50mm thick polystyrene panels clad with 0.5mm thick pre-painted Aluzinc sheeting on both sides
- 1.1 x 0.9m high (5no. in total) Casement type Anodised aluminium window frames with 4mm clear glass with one top hung opener; Windows are to be secured with aluminium profile burglar proofing
- 0.8 x 2m high (1no. in total) External door manufactured from the same materials as the walls and fitted with 3 lever mortice lock, weather boards, door stoppers and retaining hooks
- 0.8 x 2m high (1no. in total) External galvanized steel gates.
- Vinyl Tiles on floors
- The chassis to be manufactured from cold rolled lipped channel welded or bolted together into a rigid ladder frame. Joists are to be manufactured from steel lipped channel. All steel to be hot dip galvanised.
- Mesh to the sides underneath the floor.
- The roof is to be a dual pitched roof constructed from the same insulated panels used for the

Carried to Collection

R

Section 3
Bill No. 1
Alterations

	walls on single wide units and units up to 7m wide (using a king truss system) • <u>Gutters and Downpipes</u> • <u>Exterior Chromadeck Skirting</u> • <u>Interior Chromadeck Skirting</u> • <u>2no. Chalkboards each size 2.4 x 1.2m and 2no. Pinning Board size 1.8 x 1.2m</u> • <u>1no. Double Teacher Cupboard</u> • <u>Steps at Entrances</u> • <u>4.5kg Fire Extinguisher with Signage</u> • <u>Electrical Installation and Connection (Surface mounted DB, Earth Leakage, 4no. SGL LED lights - 1.2m, 2no. SGL Plugs - 16AMP, 1no. Light Switch</u> • <u>All Internal electrical wiring to be designed for a 220 volt supply, in accordance with SABS 0142:1987</u>				
24	Pre-fabricated Classroom on Steel Chassis size 7 x 7m including 1.5m wide veranda. A1 : 0 A6 : 0 AD : 0 AE : 0 G : 5	No	5		
Carried to Collection					R
Section 3 Bill No. 1 Alterations					

Section 3

Bill No. 1

Alterations

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

34

35

36

37

38

39

40

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 1

Alterations

Carried to Collection

Section 3
Bill No. 2
Earthworks (Provisional)

Dewatering of excavations:

The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

Classification of excavated material

"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.

"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness.

"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m³ in volume.

Carried to Collection

R

Section 3
Bill No. 2
Earthworks (Provisional)

EXCAVATION OTHER THAN BULK

Excavation in earth not exceeding 2m deep:

1	Trenches.	m3	48	
	A1 : 17 A6 : 17 AD : 14 AE : 0			
	G : 0			

2	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	35	
	A1 : 14 A6 : 10 AD : 12 AE : 0			
	G : 0			

Extra over trench and hole excavations in earth for excavation in:

3	Soft rock.	m3	5	
	A1 : 2 A6 : 2 AD : 1 AE : 0			
	G : 0			

4	Hard rock.	m3	2	
	A1 : 1 A6 : 1 AD : 1 AE : 0			
	G : 0			

Extra over all excavations for carting away:

5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	49	
	A1 : 18 A6 : 15 AD : 16 AE : 0			
	G : 0			

Risk of collapse of excavations:

6	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	136	
	A1 : 48 A6 : 48 AD : 40 AE : 0			
	G : 0			

Keeping excavations free of water:

7	Keeping excavations free from mud and all water including subterranean sources.	Item		
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Carried to Collection

R

Section 3
Bill No. 2
Earthworks (Provisional)

EARTH FILLING, ETC.

Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:

8	Backfilling to trenches, holes, etc.	m3	47	
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A1 : 17 A6 : 16 AD : 14 AE : 0
G : 0

Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to holes, trenches etc.

9	Under floors, etc.	m3	50	
---	--------------------	----	----	--

A1 : 19 A6 : 15 AD : 16 AE : 0
G : 0

Coarse river sand filling supplied by the contractor:

10	Under floors etc.	m3	4	
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A1 : 2 A6 : 1 AD : 1 AE : 0
G : 0

Compaction of surfaces:

11	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	88	
----	--	----	----	--

A1 : 34 A6 : 25 AD : 29 AE : 0
G : 0

Prescribed density tests on filling:

12	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	37	
----	--	----	----	--

A1 : 8 A6 : 11 AD : 8 AE : 10
G : 0

Carried to Collection

R

Section 3
Bill No. 2
Earthworks (Provisional)

SOIL POISONING

**Approved brand of anti-termite soil poison applied
by a Registered Pest Control company and
guaranteed against termite infestation for ten years:**

13	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	88
	A1 : 34 A6 : 25 AD : 29 AE : 0 G : 0		
14	To bottoms and sides of trenches, holes, etc.	m2	204
	A1 : 72 A6 : 72 AD : 59 AE : 0 G : 0		

Carried to Collection

R

Section 3
Bill No. 2
Earthworks (Provisional)

Section 3
Bill No. 2
Earthworks (Provisional)
COLLECTION

Total Brought Forward from Page No.

Page No	Amount
42	
43	
44	
45	
46	

Carried Forward to Summary of Section No. 3
Section 3
Bill No. 2
Earthworks (Provisional)

R

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</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:			
A1 - DWG 20 - Female Learner ablution			
A6 - DWG 16 - Female learner ablution			
AD - DWG 11 - Male Learner ablution			
AE - Renovations to existing ablutions			
G - General			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary products in descriptions:</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Cost of tests:</u>			
The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).			
Carried to Collection			R
Section 3			
Bill No. 3			
Concrete, Formwork and Reinforcement			

Formwork:

Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

Carried to Collection

Section 3
Bill No. 3
Concrete, Formwork and Reinforcement

R

**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15Mpa/19mm Concrete

1	Surface blinding under footings and bases.	m3	3
	A1 : 1 A6 : 1 AD : 1 AE : 0 G : 0		

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/20mm concrete:

2	Strip footing to walls.	m3	14
	A1 : 5 A6 : 5 AD : 4 AE : 0 G : 0		
3	Surface beds on waterproofing.	m3	9
	A1 : 3 A6 : 2 AD : 3 AE : 0 G : 0		

TEST BLOCKS

Test blocks:

4	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	16
	A1 : 4 A6 : 4 AD : 4 AE : 4 G : 0		

FINISHING TOP SURFACE OF CONCRETE

Finishing top surfaces of concrete smooth with a wood float:

5	Surface beds, suspended slabs, ground slabs, etc.	m2	88
	A1 : 34 A6 : 25 AD : 29 AE : 0 G : 0		

**ROUGH FORMWORK (DEGREE OF ACCURACY
III)**

Rough Formwork to Sides:

6	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	72
	A1 : 27 A6 : 21 AD : 24 AE : 0 G : 0		

Carried to Collection

Section 3
Bill No. 3
Concrete, Formwork and Reinforcement

R

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth Formwork to Sides:

7	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m2	36		
	A1 : 13 A6 : 11 AD : 12 AE : 0 G : 0				

MOVEMENT JOINTS ETC

Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed (Provisional)

8	Not exceeding 300mm wide.	m	111		
	A1 : 38 A6 : 37 AD : 35 AE : 0 G : 0				

Saw cut joints:

9	6 x 40mm Saw cut joints in top of concrete (Provisional).	m	61		
	A1 : 20 A6 : 20 AD : 20 AE : 0 G : 0				

REINFORCEMENT (PROVISIONAL)

Fabric reinforcement:

10	REF. 888 fabric reinforcement in strip foundations.	m2	87		
	A1 : 31 A6 : 31 AD : 25 AE : 0 G : 0				
11	REF. 245 fabric reinforcement in concrete surface beds, raft slabs etc.	m2	88		
	A1 : 34 A6 : 25 AD : 29 AE : 0 G : 0				

Carried to Collection

R

Section 3
Bill No. 3
Concrete, Formwork and Reinforcement

Section 3
Bill No. 3
Concrete, Formwork and Reinforcement

COLLECTION

Total Brought Forward from Page No.

**Page
No** **Amount**

48
49
50
51

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 3
Concrete, Formwork and Reinforcement

R

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u> <u>BILL No. 4</u> <u>MASONRY</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: A1 - DWG 20 - Female Learner ablution A6 - DWG 16 - Female learner ablution AD - DWG 11 - Male Learner ablution AE - Renovations to existing ablutions G - General <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Hollow walls etc</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating. <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried to Collection		R	
	Section 3			
	Bill No. 4			
	Masonry			

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 of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site

Trade names

Where trade names are specified it will read "or equal approved"

Carried to Collection

R

Section 3
Bill No. 4
Masonry

**BRICKWORK IN FOUNDATIONS
(PROVISIONAL)**

**Brickwork of NFX bricks (14 MPa nominal
compressive strength) in Class I mortar:**

1	One brick walls.	m2	68		
	A1 : 24 A6 : 24 AD : 20 AE : 0				
	G : 0				

BRICKWORK AND BLOCKWORK SUNDRIES

Galvanized brickwork reinforcement

2	115mm Wide reinforcement built in horizontally	m	195		
	A1 : 71 A6 : 71 AD : 53 AE : 0				
	G : 0				
3	230mm Wide reinforcement built in horizontally.	m	943		
	A1 : 315 A6 : 314 AD : 314 AE : 0				
	G : 0				
4	Ditto, but in foundations (Provisional).	m	226		
	A1 : 80 A6 : 80 AD : 66 AE : 0				
	G : 0				

Cramps, ties, etc:

5	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	78		
	A1 : 26 A6 : 26 AD : 26 AE : 0				
	G : 0				

Air bricks etc:

6	229 x 152mm terracotta clay vermin proof air brick	No	36		
	A1 : 12 A6 : 12 AD : 12 AE : 0				
	G : 0				

**Bagging and sealing the outer face of the inner skin
of walls with 1:3 cement and sand mixture and seal
with two coats "Brixal" bitumen emulsion
waterproofing coating:**

7	To walls (Provisional).	m2	233		
	A1 : 85 A6 : 69 AD : 78 AE : 0				
	G : 0				

Carried to Collection

Section 3
Bill No. 4
Masonry

R

Samples

- 8 Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same area (1000x1000mm) to be paved as per given specifications.

Item

Turning pieces to lintels etc

- 9 230mm Wide turning pieces

m

37

A1 : 14 A6 : 11 AD : 12 AE : 0
G : 0

FACE BRICK

"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):

- 10 Extra over brickwork for face brickwork externally.

m2

37

A1 : 14 A6 : 11 AD : 12 AE : 0
G : 0

- 11 Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar.

m2

33

A1 : 7 A6 : 5 AD : 6 AE : 14
G : 0

- 12 One brickwall pointed on both sides.

m2

290

A1 : 97 A6 : 97 AD : 97 AE : 0
G : 0

- 13 Half brickwall pointed on both sides.

m2

59

A1 : 22 A6 : 22 AD : 16 AE : 0
G : 0

- 14 Fair raking cutting.

m

27

A1 : 9 A6 : 9 AD : 9 AE : 0
G : 0

Carried to Collection

R

Section 3
Bill No. 4
Masonry

Face brick copings, lintels, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces:

15	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.	m	19
	A1 : 7 A6 : 5 AD : 6 AE : 0 G : 0		
16	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	21
	A1 : 8 A6 : 6 AD : 7 AE : 0 G : 0		

Carried to Collection

R

Section 3
Bill No. 4
Masonry

Section 3

Bill No. 4

Masonry

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

53

54

55

56

57

Carried Forward to Summary of Section No. 3

R

Section 3
Bill No. 4
Masonry

BILL No. 5

WATERPROOFING

Quantity Split:

Note that the total quantity per each item is split into the various buildings and appears below each description as follows:

A1 - DWG 20 - Female Learner abluion
A6 - DWG 16 - Female learner abluion
AD - DWG 11 - Male Learner abluion
AE - Renovations to existing ablutions
G - General

Note:

For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).

SUPPLEMENTARY PREAMBLES

Proprietary products in descriptions:

Proprietary products shall be used as specified.
Substitute products of similar quality and specification
may only be used with prior approval by the Principal
Agent.

Waterproofing

The product and its methodology for application must be approved by Principal Agent before it is used.

It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.

Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.

Carried to Collection

R

Section 3
Bill No. 5
Waterproofing

Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.

DAMPPROOFING OF WALLS AND FLOORS

One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':

1	Under surface beds, bases, etc.	m2	88	
	A1 : 34 A6 : 25 AD : 29 AE : 0			
	G : 0			

One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:

2	Below walls, sills, etc.	m2	9	
	A1 : 3 A6 : 3 AD : 3 AE : 0			
	G : 0			

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

3	In joint sealing and pointing all round external window and door frames.	m	157	
	A1 : 61 A6 : 49 AD : 47 AE : 0			
	G : 0			

Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	61	
	A1 : 20 A6 : 20 AD : 20 AE : 0			
	G : 0			

Carried to Collection

Section 3
Bill No. 5
Waterproofing

R

Section 3

Bill No. 5

Waterproofing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

59

60

Amount

Carried Forward to Summary of Section No. 3

Section 3

Bill No. 5

Waterproofing

R

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 6</u>			
<u>ROOF COVERINGS</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:			
A1 - DWG 20 - Female Learner ablution			
A6 - DWG 16 - Female learner ablution			
AD - DWG 11 - Male Learner ablution			
AE - Renovations to existing ablutions			
G - General			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Flashings</u>			
Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side			
<u>Quality Assurance</u>			
The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System			
Carried to Collection			R
Section 3			
Bill No. 6			
Roof Coverings Etc.			

Guarantee

Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.

Safety

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity

Handling and Storage

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction

Inspection Prior to Installation or Erection

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

Carried to Collection

Section 3
Bill No. 6
Roof Coverings Etc.

R

Protrusion through Sheeted Surfaces

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation

Cleaning of Roofs, etc

All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc

Carried to Collection

Section 3
Bill No. 6
Roof Coverings Etc.

R

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :

1	Roof sheeting laid to a mono-pitch. A1 : 47 A6 : 35 AD : 40 AE : 29 G : 0	m2	150		
2	Roof sheeting laid to pitch not exceeding 25 degrees A1 : 0 A6 : 0 AD : 0 AE : 140 G : 0	m2	140		
<u>0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u>					
3	Mono pitched ridge capping with 225mm lapping secured onto the roof. A1 : 11 A6 : 8 AD : 9 AE : 0 G : 0	m	27		
4	Ridge capping 550mm girth, screwed through sheet to purlins A1 : 0 A6 : 0 AD : 0 AE : 20 G : 0	m	20		
5	Standard narrow and broad flute closers. A1 : 0 A6 : 0 AD : 0 AE : 40 G : 0	m	40		

ROOF AND WALL INSULATION

"Sisalation Grade FR430" or equal approved heavy industrial insulation

6	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires A1 : 47 A6 : 35 AD : 40 AE : 169 G : 0	m2	290		
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Carried to Collection

Section 3
Bill No. 6
Roof Coverings Etc.

R

Section 3

Bill No. 6

Roof Coverings Etc.

COLLECTION

Total Brought Forward from Page No.

**Page
No**

62

63

64

65

Amount

Carried Forward to Summary of Section No. 3

Section 3

Bill No. 6

Roof Coverings Etc.

R

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u> <u>BILL No. 7</u> <u>CARPENTRY & JOINERY</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: A1 - DWG 20 - Female Learner ablution A6 - DWG 16 - Female learner ablution AD - DWG 11 - Male Learner ablution AE - Renovations to existing ablutions G - General <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>FIXING</u> All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.			
	Carried to Collection		R	
	Section 3			
	Bill No. 7			
	Carpentry and Joinery			

CARPENTRY

Sawn softwood:

1	38 x 114mm Wall plate. A1 : 21 A6 : 16 AD : 18 AE : 42 G : 0	m	97		
2	50 x 76mm Purlins. A1 : 84 A6 : 62 AD : 72 AE : 168 G : 0	m	387		
3	50 x 76mm Bracing. A1 : 12 A6 : 12 AD : 12 AE : 32 G : 0	m	68		
4	38 x 152mm Rafters. A1 : 44 A6 : 44 AD : 44 AE : 154 G : 0	m	287		

Sundries:

5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). A1 : 45 A6 : 40 AD : 42 AE : 48 G : 0	No	175		
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EAVES, VERGES, ETC

"Everite Nutec" or equal approved fibre cement

6	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. A1 : 21 A6 : 16 AD : 18 AE : 42 G : 0	m	97		
7	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. A1 : 9 A6 : 9 AD : 9 AE : 28 G : 0	m	55		

Carried to Collection

R

Section 3
Bill No. 7
Carpentry and Joinery

DOORS ETC

SANS Approved meranti:

8	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	6
	A1 : 1 A6 : 1 AD : 1 AE : 3 G : 0		
9	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	1
	A1 : 1 A6 : 0 AD : 0 AE : 0 G : 0		
10	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4).	No	34
	A1 : 5 A6 : 5 AD : 4 AE : 20 G : 0		

FRAMED FRAMES, ETC

Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - 4No. per style including 20mm quadrant beads all around the frame on both sides:

11	70 x 90mm rebated meranti frame .	m	178
	A1 : 32 A6 : 27 AD : 23 AE : 95 G : 0		

Carried to Collection

Section 3
Bill No. 7
Carpentry and Joinery

R

Section 3
Bill No. 7
Carpentry and Joinery
COLLECTION

Total Brought Forward from Page No.

Page
No

67

68

69

Amount

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 7
Carpentry and Joinery

R

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 8</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</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:			
A1 - DWG 20 - Female Learner ablution			
A6 - DWG 16 - Female learner ablution			
AD - DWG 11 - Male Learner ablution			
AE - Renovations to existing ablutions			
G - General			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary products in descriptions:</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Descriptions:</u>			
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.			
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.			
Carried to Collection			R
Section 3			
Bill No. 8			
Ceilings, Partitions and Access Flooring			

NAILED UP CEILINGS

4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti cover strips over joints:

- | | | | |
|---|--|----|-----|
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc. | m2 | 108 |
| | A1 : 0 A6 : 0 AD : 0 AE : 108
G : 0 | | |

- | | | | |
|---|---|----|---|
| 2 | Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc. | No | 2 |
| | A1 : 0 A6 : 0 AD : 0 AE : 2
G : 0 | | |

Cornice

- | | | | |
|---|--|---|----|
| 3 | 75mm gypsum coved cornice. | m | 60 |
| | A1 : 0 A6 : 0 AD : 0 AE : 60
G : 0 | | |

100mm thick non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer's recommendations.

• R-value: 2,50m² K/W

• Thermal conductivity: 0,04 W/m²/K

- | | | | |
|---|---|----|-----|
| 4 | 100mm Insulation laid between roof trusses and on top of brandering, etc. | m2 | 108 |
| | A1 : 0 A6 : 0 AD : 0 AE : 108
G : 0 | | |

Carried to Collection

R

Section 3
Bill No. 8
Ceilings, Partitions and Access Flooring

Section 3
Bill No. 8
Ceilings, Partitions and Access Flooring

COLLECTION

Total Brought Forward from Page No.

Page No	Amount
71	
72	

Carried Forward to Summary of Section No. 3
Section 3
Bill No. 8
Ceilings, Partitions and Access Flooring

R

R

HINGES:

1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	40.0		
	A1 : 7.0 A6 : 6.0 AD : 5.0 AE : 22.0				
	G : 0.0				

LOCKS

2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	6		
	A1 : 2 A6 : 1 AD : 1 AE : 2				
	G : 0				

3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	34		
	A1 : 5 A6 : 5 AD : 4 AE : 20				
	G : 0				

Sundries:

4	38mm Diameter black rubber door stop plugged and screwed to walls and floors.	No	20		
	A1 : 7 A6 : 6 AD : 5 AE : 2				
	G : 0				

SIGN PLATES:

All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.

5	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	7		
	A1 : 2 A6 : 1 AD : 1 AE : 3				
	G : 0				

Carried to Collection

R

Section 3
Bill No. 9
Ironmongery

SUNDRIES

Halcast or equal approved"

6	Thiefproof toilet roll holder plugged.	No	31		
	A1 : 6 A6 : 5 AD : 4 AE : 16				
	G : 0				

Grade 304 stainless steel ware:

7	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	3		
	A1 : 1 A6 : 0 AD : 0 AE : 2				
	G : 0				

8	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	3		
	A1 : 1 A6 : 0 AD : 0 AE : 2				
	G : 0				

Satin Grey Plastics or equal approved

9	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, mounted.	No	21		
	A1 : 7 A6 : 5 AD : 0 AE : 9				
	G : 0				

Carried to Collection

R

Section 3
Bill No. 9
Ironmongery

Section 3
Bill No. 9
Ironmongery
COLLECTION

Total Brought Forward from Page No.

Page
No

74

75

76

Amount

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 9
Ironmongery

R

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 10</u>			
<u>METALWORK</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:			
A1 - DWG 20 - Female Learner ablution			
A6 - DWG 16 - Female learner ablution			
AD - DWG 11 - Male Learner ablution			
AE - Renovations to existing ablutions			
G - General			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent			
<u>ALUMINIUM WINDOWS</u>			
All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.			
All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction.			
All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
Carried to Collection			R
Section 3			
Bill No. 10			
Metalwork			

<u>Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:</u>					
1	Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01. A1 : 12 A6 : 9 AD : 10 AE : 0 G : 0	No	31		
<u>HOT DIP GALVANIZED STEEL GATES</u>					
<u>Note: The contractor is to check on site measurements before placing of order.</u>					
<u>Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges to 25 x 25 x 2mm mild steel square tube welded to form frame. including locks, handles, ironmongery complete and fixed to brickwork:</u>					
2	Security gate size 900 x 2050mm high (G1). A1 : 1 A6 : 1 AD : 1 AE : 3 G : 0	No	6		
3	Security double gate size 1800 x 2050mm high. A1 : 1 A6 : 0 AD : 0 AE : 0 G : 0	No	1		
Carried to Collection					
Section 3 Bill No. 10 Metalwork				R	

Section 3

Bill No. 10

Metalwork

COLLECTION

Total Brought Forward from Page No.

Page
No

78

79

Amount

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 10
Metalwork

R

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u> <u>BILL No. 12</u> <u>TILING</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: A1 - DWG 20 - Female Learner ablution A6 - DWG 16 - Female learner ablution AD - DWG 11 - Male Learner ablution AE - Renovations to existing ablutions G - General <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>Fixing:</u> Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere. <u>CERAMIC FLOOR TILES</u> <u>300 x 300mm Selected Ceramic tiles (allow Prime Cost amount R200.00 per square metre for material ONLY), with 6mm straight joints fixed with tile adhesive and tile grout as per Manufacturer's recommendations:</u>			
1	Floor tiles A1 : 34 A6 : 25 AD : 29 AE : 108 G : 0	m2	196	
	Carried to Collection		R	
	Section 3			
	Bill No. 12			
	Tiling			

2	Ceramic floor tile cut to form 100mm high skirting to match existing	m	313	
	A1 : 49 A6 : 54 AD : 47 AE : 164 G : 0			
	<u>WALL TILING</u>			
	<u>200 x 200mm White edward Ivory or equal approved wall tiles, laid adhesive and finished with grouting as per Manufacturer's recommendation:</u>			
3	Splashback on walls.	m2	5	
	A1 : 0 A6 : 0 AD : 0 AE : 5 G : 0			
Carried to Collection				R
Section 3 Bill No. 12 Tiling				

Section 3

Bill No. 12

Tiling

COLLECTION

Total Brought Forward from Page No.

**Page
No**

82

83

Amount

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 12
Tiling

R

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL No. 13</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(PROVISIONAL)</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:			
	A1 - DWG 20 - Female Learner ablution			
	A6 - DWG 16 - Female learner ablution			
	AD - DWG 11 - Male Learner ablution			
	AE - Renovations to existing ablutions			
	G - General			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>RAINWATER DISPOSAL:</u>			
	<u>Watertite or equal approved Aluminium Gutters and Downpipes:</u>			
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres. A1 : 11 A6 : 8 AD : 9 AE : 21 G : 0	m	48	
2	Extra over eaves gutter for stopped end. A1 : 2 A6 : 2 AD : 2 AE : 0 G : 0	No	6	
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. A1 : 2 A6 : 2 AD : 2 AE : 0 G : 0	No	6	
	Carried to Collection			
	Section 3			
	Bill No. 13			
	Plumbing and Drainage (Provisional)			
			R	

4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	45		
	A1 : 9 A6 : 9 AD : 9 AE : 18 G : 0				
5	Extra over rainwater downpipe for bends.	No	9		
	A1 : 3 A6 : 3 AD : 3 AE : 0 G : 0				
<u>TAPS, VALVES, ETC</u>					
<u>Solid Cast brass taps, valves, etc:</u>					
6	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	21		
	A1 : 5 A6 : 3 AD : 3 AE : 10 G : 0				
7	"Flushmaster Junior FJ 6.000" or other equal approved 22mm chromium plated exposed type urinal flushvalve with "FJT 5.5" chromium plated flushpipe, integral non hold-open feature and ball-o-flo valve, with wall plate.	No	8		
	A1 : 0 A6 : 0 AD : 2 AE : 6 G : 0				
8	"Cobra FEABIBEA-4FT01" or other approved 15mm chrome plated metered bib tap.	No	1		
	A1 : 1 A6 : 0 AD : 0 AE : 0 G : 0				
9	15mm Ball-o-stop valve.	No	25		
	A1 : 5 A6 : 3 AD : 3 AE : 14 G : 0				
10	22mm Non Return valve.	No	22		
	A1 : 5 A6 : 5 AD : 6 AE : 6 G : 0				
<u>WASTE UNIONS ETC</u>					
<u>Outlets, traps, etc:</u>					
11	40mm 342/50 CP bottle trap.	No	4		
	A1 : 0 A6 : 0 AD : 0 AE : 4 G : 0				
Carried to Collection				R	
Section 3 Bill No. 13 Plumbing and Drainage (Provisional)					

12	40mm Code 316 chrome plated unslotted waste outlet. A1 : 5 A6 : 3 AD : 3 AE : 10 G : 0	No	21
13	40mm Rubber "P" or "S" trap A1 : 5 A6 : 3 AD : 3 AE : 10 G : 0	No	21
<u>SANITARY FITTINGS</u>			
<u>Vaal or equal approved:</u>			
14	Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127] A1 : 0 A6 : 0 AD : 0 AE : 4 G : 0	No	4
15	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification. A1 : 5 A6 : 3 AD : 3 AE : 10 G : 0	No	21
16	Orchid back inlet white vitreous china wall hung pan [code 439016] with floor bracket [code 8082Z0] fitted as per manufacturer's specifications and combined with:9 Litre cistern size 450 x 192 x 343mm high complete with lid and fitments. A1 : 6 A6 : 5 AD : 4 AE : 16 G : 0	No	31

Carried to Collection

R

Section 3
Bill No. 13
Plumbing and Drainage (Provisional)

Franke Model CB 102 (Automatic flushing) or equal approved flush valve/cistern flat back wall mounted urinal:

17	Flat back stainless steel school trough urinal wall and floor mounted size: 1830mm x 1264mm high Product Code [CB102-1830C] manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	No	2
	A1 : 0 A6 : 0 AD : 2 AE : 0 G : 0		

18	Flat back stainless steel school trough urinal wall and floor mounted size: 1525mm x 1264mm high Product Code [CB 102-1525] manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	No	2
	A1 : 0 A6 : 0 AD : 0 AE : 2 G : 0		

SANITARY PLUMBING

PVC waste or vent pipes and fittings:

19	50mm Waste pipe.	m	163
	A1 : 28 A6 : 30 AD : 30 AE : 75 G : 0		
20	110mm Pipe.	m	31
	A1 : 6 A6 : 5 AD : 4 AE : 16 G : 0		

Carried to Collection

R

Section 3
Bill No. 13
Plumbing and Drainage (Provisional)

21	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. A1 : 25 A6 : 25 AD : 25 AE : 40 G : 0 uPVC gulleys	m	115
22	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gulley (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar. A1 : 1 A6 : 1 AD : 1 AE : 0 G : 0 Extra for:	No	3
23	50mm Bend. A1 : 12 A6 : 10 AD : 12 AE : 12 G : 0	No	46
24	50mm Access bend. A1 : 3 A6 : 3 AD : 7 AE : 5 G : 0	No	18
25	100mm Access bend. A1 : 6 A6 : 5 AD : 4 AE : 16 G : 0	No	31

WATER SUPPLIES

Polycop pipes:

Pipes shall be class 10.

Fixing of pipes

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

Polycop pipes chased in walls:

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.

Carried to Collection

R

Section 3
Bill No. 13
Plumbing and Drainage (Provisional)

Reducing fittings:

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.

Class 10 Polycop pipes:

26	15mm Pipe chased into brick walls.	m	182
	A1 : 32 A6 : 38 AD : 32 AE : 80		
	G : 0		

27	22mm Pipe chased into brick walls.	m	158
	A1 : 20 A6 : 32 AD : 32 AE : 74		
	G : 0		

Extra over polycop pipes for compression fittings:

28	15mm Fittings.	No	144
	A1 : 28 A6 : 29 AD : 29 AE : 58		
	G : 0		

29	22mm Fittings.	No	141
	A1 : 25 A6 : 29 AD : 29 AE : 58		
	G : 0		

Connection to existing water supply

30	Allow for connection to existing water supply.	Item	
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Testing

31	Testing water pipe system	Item	
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Carried to Collection

R

Section 3
Bill No. 13
Plumbing and Drainage (Provisional)

Section 3
Bill No. 13
Plumbing and Drainage (Provisional)

COLLECTION

Total Brought Forward from Page No.

Page No	Amount
85	
86	
87	
88	
89	
90	

Carried Forward to Summary of Section No. 3
Section 3
Bill No. 13
Plumbing and Drainage (Provisional)

R

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u> <u>BILL No. 14</u> <u>GLAZING</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: A1 - DWG 20 - Female Learner ablution A6 - DWG 16 - Female learner ablution AD - DWG 11 - Male Learner ablution AE - Renovations to existing ablutions G - General <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>			
1	4mm Thick polished float glass mirror, size 450 x 600mm, four times plugged to wall with and including chromium plated dome headed screws. A1 : 0 A6 : 0 AD : 0 AE : 10 G : 0	No	10	
	<u>GLAZING TO STEEL WITH PUTTY</u> All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety flazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
	Carried to Collection			R
	Section 3 Bill No. 14 Glazing			

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Section 3

Bill No. 14

Glazing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

92

93

Amount

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 14
Glazing

R

Quantity Split:

Where trade names are specified it will read "or equal approved"

R

Section 3
Bill No. 15
Paintwork

PAINTWORK TO NEW WORK

ON WOOD

Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:

1	On doors	m2	144
	A1 : 24 A6 : 19 AD : 16 AE : 84		
	G : 0		

2	On door frames	m2	32
	A1 : 7 A6 : 6 AD : 5 AE : 14		
	G : 0		

Two coats superior quality clear gloss varnish on smooth sanded down surfaces:

3	On doors	m2	144
	A1 : 24 A6 : 19 AD : 16 AE : 84		
	G : 0		

4	On door frames	m2	32
	A1 : 7 A6 : 6 AD : 5 AE : 14		
	G : 0		

Prepare and apply two coats carbolenium on:

5	On exposed timbers.	m2	71
	A1 : 15 A6 : 12 AD : 13 AE : 30		
	G : 0		

ON FIBRE-CEMENT BOARD SURFACES

Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved coats of finishing paint or equal approved. All joints to be taped, skimmed and rubbed to a smooth finish. Colour to Architects Approval.

6	Ceilings and cornices.	m2	108
	A1 : 0 A6 : 0 AD : 0 AE : 108		
	G : 0		

7	On fascias and barge boards.	m2	53
	A1 : 10 A6 : 9 AD : 9 AE : 25		
	G : 0		

Carried to Collection

Section 3
Bill No. 15
Paintwork

R

PAINTWORK TO PREVIOUSLY PAINTED WORK

ON METAL SURFACE

8	Steel windows with burglar bars (both sides measured).	m2	64
	A1 : 0 A6 : 0 AD : 0 AE : 64		
	G : 0		

9	Steel posts.	m2	19
	A1 : 0 A6 : 0 AD : 0 AE : 19		
	G : 0		

ON FLOATED PLASTER

Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved. Colour to Architect's Approval.

10	On internal walls	m2	308
	A1 : 0 A6 : 0 AD : 0 AE : 308		
	G : 0		

ON BRICK SURFACES

Clean down with spirits of salts solution and apply two coats silicone-based brick dressing on:

11	Facings (Externally).	m2	216
	A1 : 0 A6 : 0 AD : 0 AE : 216		
	G : 0		

Carried to Collection

Section 3
Bill No. 15
Paintwork

R

Section 3

Bill No. 15

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

95

96

97

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 15
Paintwork

R

[illegible]

Carried to Collection

Section 4
Bill No. 1
External Works

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SABS 1200

- L : Medium pressure pipelines
LD : Sewers
LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200
DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.

Descriptions of pipes laid in trenches:

Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

Descriptions of catchpits, junction boxes, manholes, etc:

Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

THE FOLLOWING IN PLATFORMS, ETC.

Site Clearance, ETC

- | | | | |
|---|---|----|-----|
| 1 | Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris. | m2 | 280 |
| 2 | Stripping average 200mm thick layer of topsoil and stockpiling on site. | m2 | 688 |

Carried to Collection

R

Section 4
Bill No. 1
External Works

<u>Open face excavation not exceeding 2m deep:</u>					
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	198		
<u>Extra over all excavations for carting away:</u>					
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	157		
<u>Earth filling from excavated material</u>					
5	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m3	49		
<u>Filling supplied by the contractor to form platforms</u>					
6	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	84		
<u>Surface Preparation:</u>					
7	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m2	198		
<u>Prescribed density tests on filling:</u>					
8	Modified AASHTO Density test.	No	12		
<u>THE FOLLOWING IN DISABLED ACCESS</u>					
<u>ACCESS RAMPS</u>					
<u>Excavation not exceeding 2m deep</u>					
9	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	4		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
10	Off site to a dumping site to be found by the Contractor.	m3	3		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
11	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
12	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		
	<u>Coarse river sand filling supplied by the contractor:</u>				
13	Under floors etc.	m3	1		
	<u>Compaction of surfaces:</u>				
14	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	14		
	<u>Prescribed density tests on filling:</u>				
15	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
16	Ramps, Landings, etc.	m3	1		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
17	Surface beds, slabs, etc to falls and currents.	m2	14		
	<u>Test blocks:</u>				
18	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
19	12mm Joints not exceeding 300mm high.	m	22		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
20	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	22		
	<u>Fabric reinforcement:</u>				
21	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	14		
	<u>Waterproofing under Surface beds</u>				
22	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	14		
	<u>THE FOLLOWING IN WALKWAYS</u>				
	<u>Excavation not exceeding 2m deep</u>				
23	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	64		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
24	Off site to a dumping site to be found by the Contractor.	m3	64		
	<u>Filling supplied by the contractor under walkways</u>				
25	G7 Base course material compacted to 98% Mod AASHTO density	m3	48		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
26	Under floors,etc.	m2	160		
	<u>Prescribed density tests on filling:</u>				
27	In-situ dry density test.	No	11		
	Carried to Collection			R	
	Section 4				
	Bill No. 1				
	External Works				

	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
28	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	160		
	<u>Concrete Paving Blocks</u>				
	<u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>				
29	Paving to walkway areas, etc laid to falls.	m2	160		
	<u>Sundries</u>				
30	Circular cutting on 50mm thick non bevelled concrete pavers.	m	10		
	<u>Kerbing</u>				
	<u>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.</u>				
31	Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	160		
32	Ditto but circular on plan.	m	10		
Carried to Collection					R
Section 4					
Bill No. 1					
External Works					

**THE FOLLOWING IN BULK WATER
RETICULATION**

Pipes, pipe fittings, etc.

ALTERATIONS TO EXISTING

33	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	2
34	Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1

HDPE 100PN 12.5 pressure pipes:

35	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	20
36	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	30

Extra over (PN12.5) HDPE piping for fittings:

37	32mm Bend.	No	8
38	32mm Adaptor.	No	14
39	40mm Bend.	No	5
40	32mm Tee.	No	3
41	40mm Tee.	No	2

TAPS, VALVES, ETC

42	32mm "Cobra" Ball Valve complete with adaptors for HDPE pipe.	No	1
43	32mm Non-return valve.	No	1

Carried to Collection

R

Section 4
Bill No. 1
External Works

	<u>Water supply valve or meter chambers</u>				
44	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	1		
	<u>Sundries:</u>				
	<u>Connection</u>				
45	Allow for connecting to the main water supply.		Item		5 000.00
	<u>Testing:</u>				
46	Testing water pipe system.		Item		
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
47	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	21		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
48	Off site to a dumping site to be found by the Contractor.	m3	21		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
49	G7 Base course material compacted to 98% Mod AASHTO density	m3	8		
50	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	8		
	Carried to Collection			R	
	Section 4				
	Bill No. 1				
	External Works				

	<u>Coarse river sand filling supplied by the contractor:</u>				
51	Under floors etc.	m3	3		
	<u>Compaction of surfaces:</u>				
52	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	53		
	<u>Prescribed density tests on filling:</u>				
53	In-situ dry density test.	No	5		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
54	Surface beds cast in panels on waterproofing.	m3	8		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
55	Surface beds, slabs, etc to falls and currents.	m2	53		
	<u>Test blocks:</u>				
56	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
57	12mm Joints not exceeding 300mm high.	m	43		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
58	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	14		
	<u>Fabric reinforcement:</u>				
59	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	53		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

	<u>Waterproofing under Surface beds</u>				
60	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	53		
	<u>STORMWATER CHANNELS</u>				
	<u>Excavation not exceeding 2m deep</u>				
61	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	80		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
62	Off site to a dumping site to be found by the Contractor.	m3	80		
	<u>Filling supplied by the contractor under channels</u>				
63	G7 Base course material compacted to 98% Mod AASHTO density	m3	40		
64	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	40		
	<u>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.</u>				
65	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	267		
66	Extra for 700mm angle	No	12		
	Carried to Collection			R	
	Section 4				
	Bill No. 1				
	External Works				

67	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	12		
<u>BULK SEWER RETICULATION</u>					
<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>					
68	110mm Pipes laid in and including trenches not exceeding 1m deep	m	40		
69	110mm Pipes laid in and including trenches exceeding 1m but not exceeding 2m deep	m	10		
<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>					
70	110mm Bend	No	6		
71	110mm Rodding eye	No	2		
72	160 x 110mm Reducing junction	No	1		
<u>PRE-CAST CONCRETE MANHOLES</u>					
<u>Pre-cast concrete circular inspection chambers including pre-cast concrete cover slabs, covers and channels in benching</u>					
73	Manhole 1000mm diameter not exceeding 1m deep.	No	3		
74	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	No	1		
<u>SUNDRIES</u>					
<u>Earthworks</u>					
75	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	15		
76	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	8		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

77	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	1		
	<u>Manhole covers</u>				
78	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	6		
	<u>Connection</u>				
79	Allow for connecting to sewer drainage system		Item		
	<u>Testing:</u>				
80	Testing drainage system.		Item		
	<u>Servicing existing sewer drainage system</u>				
81	Allow for servicing existing sewer drainage system by jetting to dislodge blockages.		Item		
	<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
82	Trenches.	m3	11		
	<u>Extra over trench and hole excavations in earth for excavation:</u>				
83	Soft rock.	m3	1		
84	Hard rock.	m3	0.3		
	<u>Extra over all excavations for carting away:</u>				
85	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	7		
	<u>Risk of collapse of excavations:</u>				
86	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	38		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u>				
87	Backfilling to trenches, holes, etc.	m3	4		
	<u>Earth filling supplied by the Contractor compacted to 95% MOD AASHTO:</u>				
88	Under floors, steps, pavings, etc.	m3	10		
	<u>Compaction of surfaces</u>				
89	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	20		
	<u>25Mpa/19mm Un-reinforced Concrete</u>				
90	Strip footings.	m3	5		
	<u>25 MPa/19mm Concrete:</u>				
91	Tank concrete slab.	m3	4		
	<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>				
92	Surface beds, slabs, etc.	m2	27		
	<u>Rough Formwork to Sides (Degree of Accuracy III):</u>				
93	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	42		
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
94	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
	<u>Foundation brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>				
95	One brick walls.	m2	11		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

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Section 4
Bill No. 1
External Works
COLLECTION

Total Brought Forward from Page No.

**Page
No** **Amount**

100
101
102
103
104
105
106
107
108
109
110
111
112
113

Carried to Final Summary

R

Section 4
Bill No. 1
External Works

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>BILL No. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u>			
	<u>ELECTRICAL INSTALLATION</u>			
1	Allow the Provisional sum of R 200 000.00 (Two Hundred Thousand Rand) for the new electrical installation on new ablution facilities including refurbishment of existing electrical installations on existing ablution facilities.	Item		200 000.00
2	Add: Mark-up		%	
	<u>COMMUNITY LIAISON OFFICER</u>			
3	Allow for the employment of a Community Liaison Officer by the Main Contractor, to be paid an allowance of R6 500.00 per month for duration of 6 Months..	Item		39 000.00
4	Add: Mark-up		%	
	Carried to Collection		R	
	Section 5			
	Bill No. 1			
	Provisional Sums			

**YOUTH BUSINESS EMPOWERMENT TRAINING
(YBE)**

- | | |
|---|---|
| 5 | Allow R 65 000.00 for the empowerment of selected previously disadvantaged small business owner within the immediate community where the project is situated to be paid R 6 500.00 a month. |
| 6 | Allowance for profit all inclusive of associated costs to the contractor for implementation. |
| 7 | Allowance for attendance all inclusive of associated costs to the contractor for implementation. |

Item

65 000.00

%

%

Carried to Collection

R

Section 5
Bill No. 1
Provisional Sums

Section 5
Bill No. 1
Provisional Sums

COLLECTION

Total Brought Forward from Page No.

Page No	Amount
115	
116	

Carried to Final Summary

R

Section 5
Bill No. 1
Provisional Sums

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