### **BILLS OF QUANTITIES**

### **FOR**

# GCINUBUZWE COMBINED SCHOOL - SANITATION APPROPRIATE FOR EDUCATION (SAFE) PROGRAMME - CACADU DISTRICT MUNICIPALITY

### FOR

# The Mvula Trust

### ARCHITECTS

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## **INDEX TO BILLS OF QUANTITIES**

Bill No		Page No
	SECTION NO. 1: PRELIMINARIES	1
1	PRELIMINARIES	2
	Section A: Principal Building Agreement	3
	Section B: Preliminaries	9
	Section C: Specific Preliminaries	14
	Bill No.1	18
2	PHEALTH AND SAFETY	20
	Model Preambles	20
	Supplementary Preambles	20
	Occupational Health And Safety	20
	SECTION SUMMARY	23
	SECTION NO. 2: ALTERATIONS (PROVISIONAL)	24
1	ALTERATIONS (PROVISIONAL).	25
	Model Preambles	25
	Supplementary Preambles	25
	Removal Of Existing Work	27
	Making Good Existing Services	28
2	WATERPROOFING	30
3	ROOF COVERINGS	33
	Quantity Split:	33
	Roof Coverings	35
4	CARPENTRY AND JOINERY	37
5	CEILINGS PARTITIONS AND ACCESS FLOORING	40
	Model Preambles	40

	Nailed Up And Screw Up Ceilings	40
	Insulation	40
	Drywall Partitions	40
6	IRONMONGERY	41
7	PLASTERING	44
8	TILING	45
	Model Preambles	45
	Wall Tiling	45
9	PLUMBING AND DRAINAGE	46
10	GLAZING	51
	Trade Preambles	51
	Supplementary Preambles	51
	Glazing To Steel With Putty	51
	Tops, Shelves, Doors, Mirrors, Etc	51
11	PAINTWORK	52
	Paintwork Etc To New Work	52
	On Granolithic Screed	52
	Paintwork Etc To Existing Work	53
	On Floated Plaster Surfaces	53
	On Brickwork	53
	On Wood	53
	On Metal	53
	SECTION SUMMARY	55
	SECTION NO. 3: NEW WORKS	56
1	EARTHWORKS	57
	Excavation Other Than Bulk	58

	Earth Filling, Etc	59
	Soil Poisoning	59
2	CONCRETE, FORMWORK AND REINFORCEMENT	61
	Unreinforced Concrete Cast Against Excavated Surfaces	62
	Reinforced Concrete Cast Against Excavated Surfaces	62
	Test Blocks	62
	Finishing Top Surface Of Concrete	62
	Rough Formwork (Degree Of Accuracy iii).	62
	Movement Joints Etc	63
	Reinforcement (Provisional)	63
3	MASONRY	65
	Brickwork And Blockwork Sundries	66
	Face Brick	67
4	WATERPROOFING	69
	Dampproofing Of Walls And Floors	70
5	ROOF COVERINGS	72
	Quantity Split:	72
	Roof Coverings	74
6	CARPENTRY AND JOINERY	76
7	IRONMONGERY	79
8	METALWORK	82
9	PLASTERING	85
10	PLUMBING AND DRAINAGE	86
	Sanitary Fittings	87
11	PAINTWORK	91
	Paintwork Etc To New Work.	91

	SECTION SUMMARY	94
	SECTION NO. 4: EXTERNAL WORKS (PROVISIONAL)	95
1	EXTERNAL WORKS	96
	The Following In Platforms, Etc.	96
	Water Reticulation	97
	Taps, Valves, Etc.	97
	Municipal Connection	97
	Sewer Reticulation	98
	Bulk Sewer Reticulation	99
	Pre-cast Concrete Manholes	99
	Sundries	99
	The Following In Walkways	100
	The Following In Disabled Access	101
	The Following In Stormwater Drainage, Aprons Etc	104
	The Following In Stormwater Dish Drain, Etc.	107
	The Following In Rainwater Tanks And Stands	108
	The Following In Security Fencing, Etc	110
	SECTION SUMMARY	114
	SECTION NO. 5: PROVISIONAL SUMS	115
	Budgetary Allowances	116
	Allowances	116
	Temporary Ablutions	116
	SECTION SUMMARY	118

# SECTION NO. 1 PRELIMINARIES

	Amount
SECTION NO. 1	
PRELIMINARIES BILL NO. 1	
PRELIMINARIES	
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.	
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 No. 1	
Bill No. 1	
Preliminaries	

2

			Amount	
	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	<u>DEFINITIONS</u>			
	Definitions and interpretation (Clause 1).			
1	F: V: T:	Item		
	F:			
	Offer, acceptance and performance (Clause 2).			
2	F: V: T:	ltem		
	F: V: T:			
	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:	ltem		
	F: V: T: T: Design responsibility (Clause 4).			
4	F: V: T:	ltem		
	F: V: T: T: Employer's agents (Clause 5).			
5	F: V: T:	ltem		
	F: V: T: Site representative (Clause 6).			
6	F: V: T:	ltem		
	F: V: T:			
7	F: V: T:	ltem		
	F: V: T: T:			
8	F: V: T:	ltem		
	F: V: T:			
	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'.			
	Carried to Collection	R		
	Section No. 1 Bill No. 1	.``		
	Preliminaries			
	3			

			Amount	
9	F: V: T:	Item		
	F:			
	Works insurances (Clause 10).			
10	F: V: T: T:	Item		
	Liability insurances (Clause 11).			
11	F: V: T:	ltem		
	F:			
	Effecting insurances (Clause 12).			
12	F: V: T:	Item		
	F: V: T: State Provisions (Clause 13).			
13	F: V: T:	Item		
13	F: V: T:	ILCIII		
	Security (Clause 14).			
14	F: V: T:	Item		
	F: V: T:			
	EXECUTION			
	Preparation for and execution of the works (Clause 15).			
15	F: V: T:	ltem		
	F: V: T:			
	Access to the works (Clause 16).			
16	F: V: T:	ltem		
	F:			
17	Contract instructions (Clause 17).  F:	ltana		
11	F: V: T: T:	Item		
	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.			
18	F: V: T:	ltem		
	F: V: T:			
19	F: V: T:	Item		
	F: V: T:			
	Carried to Collection	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			
	4			

			Amount	
	Nominated subcontractors (Clause 20).			
20	F: V: T:	14		
20	F: V: T:	Item		
	Selected subcontractors (Clause 21).			
21	F: V: T:	Item		
	F: V: T:			
	Employer's Direct contractors (Clause 22).			
22	F: V: T:	Item		
	F: V: T:			
	Contractor's Domestic subcontractors (Clause 23).			
23	F: V: T:	Item		
	F: V: T:			
	COMPLETION			
	Practical completion (Clause 24).			
24	F: V: T:	Item		
	F: V: T:			
	Works completion (Clause 25).			
25	F: V: T:	Item		
	F: V: T: T: Final completion (Clause 26).			
	Latent defects liability period (Clause 27).			
	Clause 27.0 is amended by the addition of the following clauses:			
	27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and			
	Interpretations.			
	27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accummulates in order to attend to a comprehensive list of			
	defects	14		
26	F: V: T:	Item		
	F: V: T:			
27	F: V: T:	ltem		
	F:			
28	F: V: T:	ltem		
	F: V: T:			
	Carried to Collection	R		
	Section No. 1	K		
	Bill No. 1			
	Preliminaries			
	5			
	· ·	ı	ıı I	

			Amount	
	Penalty for non-completion (Clause 30).			
29	F: V: T:	ltem		
	F: V: T:			
	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.			
	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:	ltem		
	F: V: T:			
	Recovery of expense and loss (Clause 33).			
31	F: V: T:	ltem		
	F: V: T: Final account and final payment (Clause 34).			
32	F: V: T:	Item		
	F: V: T:			
33	F: V: T:	Item		
	F: V: T:			
	CANCELLATION			
	Cancellation by Employer - Contractor's default (Clause 36).			
34	F: V: T:	Item		
	F: V: T:			
	Cancellation by Employer - Loss and damage (Clause 37).			
35	F: V: T:	ltem		
	F: V: T:			
	Cancellation by Contractor - Employer's default (Clause 38).			
36	F: V: T:	ltem		
	F: V: T:			
	Cancellation - Cessation of the works (Clause 39).			
	Carried to Collection	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			
	6			

			Amount	
37	F: V: T:	Item		
٥,	F:	il.Ciii		
	<u>DISPUTE</u>			
	Dispute Settlement (Clause 40)			
38	F: V: T:	ltem		
	F: V: T:			
	SUBSTITUTE PROVISIONS			
	State Clauses (Clause 41)			
39	F: V: T:	ltem		
	F: V: T:			
	CONTRACT VARIABLES			
	The Schedule: Pre-Tender information (Clause 42).			
40	F: V: T:	Item		
	F: V: T:			
	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			
	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.			
	The part of the second of the			
		_		
	Carried to Collection	R		
	Section No. 1 Bill No. 1			
	Preliminaries			
	7			

Amount Arbitration rules as recommended by the Association of Arbitrators (SA) :-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. Penalty amount will be R2000 per calender 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 **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: Not exceeding 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: Not exceeding 5% of Insured Amount. **DOCUMENTS (Clause 42.4)** Clause 42.4.1 Carried to Collection R Section No. 1 Bill No. 1 **Preliminaries** 

8

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		Amount	
Waiver of the contractor's lien is required :- YES			
Clause 42.4.2			
Number of construction document copies to be supplied to the Contractor free of charge :- 1			
Clause 42.4.3			
Bills of Quantities drawn up in accordance with :-			
Standard System of Measuring Building Work - Seventh Edition including all amendments			
Clause 42.4.4			
Number of days for submission of priced documents : 5 working days from the Letter of Appointment.			
Clause 42.4.5			
JBCC Engineering General Conditions are to be included in the documents :- No			
Clause 42.4.6			
The contract value is to be adjusted using CPAP:- NO			
SECTION B: PRELIMINARIES			
DEFINITIONS AND INTERPRETATION (B1)			
Definitions and Interpretation (B1)			
F: V: T:	ltem		
F: V: T:			
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.			
F: V: T:	ltem		
F: V: T:			
, , ,			
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			
F: V: T:	ltem		
F:			
	_		
	R		
Preliminaries			
9			
	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)  F:	Clause 42.4.2  Number of construction document copies to be supplied to the Contractor free of charge :-1  Clause 42.4.3  Bills of Quantities drawn up in accordance with :-  Standard System of Measuring Building Work - Seventh Edition including all amendments  Clause 42.4.4  Number of days for submission of priced documents : 5 working days from the Letter of Appointment.  Clause 42.4.5  JBCC Engineering General Conditions are to be included in the documents :- No  Clause 42.4.6  The contract value is to be adjusted using CPAP:- NO  SECTION B: PRELIMINARIES  DEFINITIONS AND INTERPRETATION (B1)  DEFINITIONS and Interpretation (B1)  F:	Waiver of the contractor's lien is required :- YES  Clause 42.4.2  Number of construction document copies to be supplied to the Contractor free of charge :- 1  Clause 42.4.3  Bills of Quantities drawn up in accordance with :-  Standard System of Measuring Building Work - Seventh Edition including all amendments  Clause 42.4.4  Number of days for submission of priced documents : 5 working days from the Letter of Appointment.  Clause 42.4.5  JBCC Engineering General Conditions are to be included in the documents :- No  Clause 42.4.5  The contract value is to be adjusted using CPAP:- NO  SECTION B: PRELIMINARIES  DEFINITIONS AND INTERPRETATION (B1)  Definitions and Interpretation (B1)  F:

			Amount	
44	F: V: T:	ltem		
	F: V: T:	1,0111		
	Interests of Agents (B2.4)			
45	F: V: T:	Item		
	F: V: T:			
46	F: V: T:	ltem		
	F: V: T:			
	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:	ltem		
	F: V: T:			
	THE SITE (B3)			
	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.			
48	F: V: T:	Item		
	F: V: T:			
	A desktop geotechnical report is available upon request.			
49	F: V: T:	ltem		
	F: V:			
50	F: V: T:	Item		
	F: V: T:			
	Existing premises occupied (B3.4)			
51	F: V: T:	Item		
	F: V: T:			
	Previous work - dimensional accuracy (B3.5)			
52	F: V: T:	ltem		
	F: V: T:			
	Previous work - defects (B3.6)			
	Carried to Collection	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			
	10			

				Amount	
53	F: V: T:		ltem		
	F: V: T: T:				
54	Services - known (B3.7) F: V: T:		ltan		
54	F: V: T: T:		ltem		
	Services - unknown (B3.8)				
55	F: V: T:		ltem		
	F: V: T: Protection of trees (B3.9)				
56	F: V: T:		ltem		
	F: V: T:				
	Articles of value (B3.10)				
57	F: V: T:		ltem		
	F: V: T: T:				
EO	Inspection of adjoining properties (B3.11)		lé a ua		
58	F: V: T: T:		Item		
	MANAGEMENT OF CONTRACT (B4)				
	Management of the Works (B4.1)				
59	F: V: T:		ltem		
	F: V: T:				
	Programme for the Works (B4.2)				
60	F: V: T:		ltem		
	F: V: T: Progress meetings (B4.3)				
61	F: V: T:		ltem		
	F: V: T: T: Cechnical meetings (B4.4)				
62	F: V: T:		ltem		
	F: V: T:				
	SAMPLES AND SHOP DRAWINGS (B5)				
	Samples of materials (B5.1)				
63	F: V: T:		ltem		
	F: V: T:				
64	F: V: T:		ltem		
	F: V: T:				
	Section No. 1	Carried to Collection	R		
	Section No. 1 Bill No. 1				
	Preliminaries				
		11			

			Amount	
65	F: V: T:	ltem		
	F: V: T:			
	TEMPORARY WORKS AND PLANT (B6)			
	Deposits and fees (B6.1)			
66	F: V: T:	Item		
	F: V: T:			
	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		
	F: V: T:			
	Advertising (B6.3)			
68	F: V: T:	ltem		
	F: V: T:			
	Plant and equipment (B6.4)			
69	F: V: T:	ltem		
	F: V: T:			
	Main notice board (B6.5)			
	One notice board shall be provided by the Contractor			
70	F: V: T:	ltem		
	F: V: T:			
	Subcontractors notice board (B6.6) (N/A)			
71	F: V: T:	Item		
	F: V: T:			
	TEMPORARY SERVICES (B7)			
	Location (B7.1)			
72	F: V: T:	Item		
	F: V: T:			
	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		
	F:			
	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).			
	Carried to Collection	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			
	12			

			Amount	
7.1	T			
74	F: V: T: T:	ltem		
	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:	ltem		
	F: V: T:			
	The contractor shall provide toilet facilties on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	ltem		
	F: V: T:			
	PRIME COST AMOUNTS (B8)			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	F: V: T:			
	ATTENDANCE ON N/S SUBCONTRACTORS (B9)			
	General Attendance (B9.1)			
78	F: V: T:	ltem		
	F: V: T:			
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	F: V: T:			
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	F: V: T: T:			
	FINANCIAL ASPECTS (B10)			
	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:	Item		
	F:			
82	F: V: T:	Item		
	F: V: T:			
	Adjustment of Preliminaries (B10.3)			
	Carried to Collection	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			
	13			

			Amount	
83	F: V: T:	Item		
	F: V: T:			
	Payment certificate cash flow (B10.4)			
84	F: V: T:	Item		
	F: V: T:			
	Contractor information supply (B10.5)			
85	F: V: T:	Item		
	F: V: T:			
	GENERAL (B11)			
	Protection of the Works (B11.1)			
86	F: V: T:	Item		
	F: V: T:			
0.7	F: V: T:	14		
87	F:	ltem		
	Site security (B11.3)			
88	F: V: T:	Item		
	F: V: T: T: Notice before covering work (B11.4)			
89	F: V: T:	ltem		
00	F:	item		
	Disturbance (B11.5)			
90	F: V: T:	ltem		
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91	F: V: T:	ltem		
	F:	110111		
	Vermin (B11.7)			
92	F: V: T:	Item		
	F: V: T:			
	Overhand work (B11.8)			
93	F: V: T:	Item		
	F: V: T:			
	SECTION C: SPECIFIC PRELIMINARIES			
	Section C: Specific Preliminaries:			
	C1. Proprietary branded products			
	Carried to Collection	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries 14			
	14			

			Amount	
	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:	ltem		
	F: V: T:			
	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		
	F: V: T: T:			
	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:	ltem		
	F: V: T:			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: V: T:	ltem		
	F: V: T: 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:	ltem		
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	Bill No. 1			
	Preliminaries			
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	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:			
	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:	ltem		
	F: V: T:			
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.			
100	F: V: T:	ltem		
	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.			
101	F: V: T:	ltem		
	F: V: T:			
	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.			
102	F: V: T:	ltem		
	F: V: T:			
	C10. Method Statement			
	Carried to Collection	R		
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	Bill No. 1			
	Preliminaries			
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			Amount	
400	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.	14		
103	F: V: T: T:	Item		
	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.			
104	F: V: T:	ltem		
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	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.			
105	F: V: T:	ltem		
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	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:	ltem		
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	Bill No. 1			
	Preliminaries			
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	C14. Office accommodation			
	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]			
107	F: V: T:	ltem		
	F: V: T: T: C15. Storage Facilities			
	The Contractor shall provide a Container for storage of materials.			
108	F: V: T:	ltem		
	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.			
109	F: V: T:	ltem		
	F: V: T:			
	SUB - TOTAL: VALUE - RELATED ITEMS			
	SUB - TOTAL: TIME - RELATED ITEMS			
	BILL No.1			
	Carried to Collection	R		
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	Bill No. 1			
	Preliminaries 18			
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BILL NO. 1				
PRELIMINARIES				
COLLECTION				
		Page No		
	Brought Forward from Page	2		
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Bill No. 1				
Preliminaries	19			

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	Unit	Quantity	Rate	Amount	
SECTION NO. 4					
SECTION NO. 1 PRELIMINARIES					
BILL NO. 2					
HEALTH AND SAFETY					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.					
SUPPLEMENTARY PREAMBLES					
Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.					
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.					
Prior to pricing the principal contractor must familiarizehim/herself with the Occupational Health and Safety ActNo. 85 Of 1993, Construction Regulations 2014, otherrelevant Regulations and Standards as well as projectspecific Health & Safety specifications.					
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.					
The costs included herein must incorporate Community Liaison Officer (CLO).					
OCCUPATIONAL HEALTH AND SAFETY					
General:					
Preparation of Contractor's site specific Health and Safety Plan.	Item				
Submission of the Health and Safety File.	Item				
Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	ltem				
Carried to Collection Section No. 1 Bill No. 2			R		
Health And Safety					
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		Unit	Quantity	Rate	Amount	
4	Principal Contractor's time related obligations in respectof the OHS Act and Construction Regulations for theentire construction period.	Item				
5	Provision of full time Health and Safety Officer for the entire construction period.	Item				
6	Induction training of personnel.	Item				
7	Provision of first aid boxes.	Item				
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min300mm deep in ground at max 3m spacing including excavation, backfilling, etc	Item				
9	Extra over mesh fence for pedestrian gate size 1.8 x1,8m high.	Item				
	Provision for Personal Protective Equipment and Protective Clothing:					
10	Reflective vests.	Item				
11	Hard hats.	Item				
12	Protective foot wear.	Item				
13	Ear Plugs.	Item				
14	Dust Masks.	Item				
	Cost of Medical Certificates and Medical Surveilance:					
15	Initial (baseline) medical examinations.	Item				
16	Exit Examinations.	Item				
	Noise Monitoring:					
17	Establishment of noise zones.	Item				
18	Audiograms.	Item				
	C16. Covid-19 Compliance Measures:					
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed toinclude all the mandatory requirements.	Item				
	Carried to Collection			R		
	Section No. 1					
	Bill No. 2					
	Health And Safety 21					
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			Amount	
BILL NO. 2 HEALTH AND SAFETY COLLECTION		Page No		
	Brought Forward from Page	20 21		
	Carried To Section Summary	R		
Section No. 1 Bill No. 2 Health And Safety				
	22			

				Amount	
	SECTION NO. 1 PRELIMINARIES				
	SECTION SUMMARY				
Bill No.			Page		
1	PRELIMINARIES		19		
2	HEALTH AND SAFETY		22		
		Carried to Final Summary	R		
	Section No. 1 SECTION SUMMARY				
	SECTION COMMINATOR				
		23			

# SECTION NO. 2 ALTERATIONS (PROVISIONAL)

				SAFE Bat	tch 5
	Unit	Quantity	Rate	Amount	
SECTION NO. 2					
ALTERATIONS (PROVISIONAL)					
BILL NO. 1					
ALTERATIONS (PROVISIONAL)					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill.					
Tenderers are advised to study the Department of Public Works - Construction Works: General Specification (PW371-A) and Construction Works: Particular Specification (PW371-B) before pricing this bill.					
Supplementary Preambles:					
Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Employer and all rubbish, debris, etc., arising from the alterations, etc., and for making good all work damaged or disturbed to the approval of the Principal Agent.					
If angle grinders are used, a method of containing the dust must be utilised. Should the dust produced by the use of angle grinders, be deemed to be a nuisance by the Employer, their use will be prohibited.					
For purpose of this contract, and to avoid misunderstanding in terms of carrying out the works and pricing thereof, phrases stated hereunder have been defined and the Contractor is advised to study them carefully as no claim will be entertained as a result of him not doing so:					
a) "Making Good" shall include making good of the brick, concrete and timber surfaces onto which the finishes are applied, where necessary.					
b) "Forming New Openings" shall include all labour and materials forming opening, cut toothings and bonding for and plumbing and flushing up reveals, cutting for and forming precast concrete, or reinforced brick lintel over including necessary turning pieces, reinforcement, etc.					
Carried to Collection Section No. 2 Bill No. 1			R		
Alterations (provisional)					
25					

				SAFE Bat	tch 5
	Unit	Quantity	Rate	Amount	
c) All existing material described as "carefully take out, set aside for re-use and later refix in new position" are to be carefully removed, stored and protected from injury, made good as required and if broken or damaged through taking out, removing, storage, etc, are to be replaced by the Contractor at his own expense.  Tenderers are advised to inspect these materials to ascertain their condition and allow accordingly for this in their pricing.  d) The term "take out" includes all work taken out, taken up, taken down, taken off, etc; the term "break up" includes all work broken up, broken down, broken off, etc and the term "hack off" includes all work hacked off, hacked up, hacked down, etc.  e) The terms "take out and remove door", "take out and remove window", "carefully take out, set aside for re-use and later refix window in new position", atc are to include all materials connected with such door or window such as doors, windows, fanlights, frames, ironmongery, glass, architraves, beads, fillets, cramps, dowels, door					
stops, cabin hooks, etc.  f) Doors, windows, fanlights, fittings, frames, linnings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and esing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holeswith tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given seperately. Making good floor and wall finishes to match existing.					
g) Where door and window openings, etc, are specified to be filled in, or where jambs, sills, etc are specified to be built up, brickwork shall be of hard burnt clay stock bricks in 5.1 cment motar unless otherwise specified, cut, toothed and bonded into existing brickwork and pinned up as required with slates or other hard materials. Brickwork built to fair face or in facings is to be of bricks and pointed to match existing. Plaster is to be 5.1 cement plaster unless otherwise specified.					
h) where lintels are specified as precast concrete the prices are to include for breaking ourt brickwork over for inserting precast prestressed cement concrete (30Mpa) lintel with 230mm bearing on each end size 108 x 75mm deep for each half brick thickness of wall.					
Carried to Collection Section No. 2 Bill No. 1 Alterations (provisional)			R		
26					
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		Unit	Quantity	Rate	Amount	
	i) Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectively stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fkittings, to the satisfaction of the Principal Agent.					
	j) The terms propping, strutting, shoring, etc, is not specifically mentioned in each item, however these shall be deemed to be included in the descriptions.					
	k) No explosive whatsoever may be used for demolition purposes unless otherwise stated or oprior approval by the Principal Agent.					
	REMOVAL OF EXISTING WORK					
1	Allow for protecting all existing work liable to suffer damage (i.e. Walls, finishes, floors, windows, joinery fittings, etc.) from damage during the building operations, alterations, etc., and make good all work damaged with new material to match existing to the approval of the Principal Agent.	No	2			
2	Allow for watering the works by spraying to prevent any nuisance from dust, etc., and supply, erect and remove on completion all temporary dust screens, etc. required.	No	2			
	Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)					
3	900 x 2125mm High Timber single door and ironmongery	No	4			
4	900 x 2125mm High Timber single door, frame and ironmongery	No	34			
5	Double rebated rebated door frame	No	34			
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.					
6	Remove corrugated metal roof sheeting.	m²	280			
7	Remove asbestos gutters (By certified asbestos removal specialist)	m	80			
8	Remove asbestos downpipes (By certified asbestos removal specialist)	m	24			
9	Remove fibre cement fascia and barge boards	m	112			
10	Remove fibre cement ceilings	m²	272			
	Carried to Collection			R		
	Section No. 2			, r		
	Bill No. 1					
	Alterations (provisional)					
	27					

		Unit	Quantity	Rate	Amount
11	Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.  Tile from walls	m²	16		
	Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.				
12	Floor screed and prepare concrete floors to receive new screed	m²	272		
	Taking out and removing piping, sanitary fittings, etc., including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
13	PVC piping not exceeding 50mm diameter	m	120		
14	Vitreous china wash hand basin, including short lengths of piping, etc.	No	16		
15	Vitreous china WC pan, including short lengths of piping, etc.	No	30		
16	Cistern in duct, including short lengths of piping, etc.	No	30		
17	Stainless steel flat back urinal, including short lengths of piping, etc.	No	1		
18	Stainless steel washing hand trough, including short lengths of piping, etc.	No	4		
	Taking out and removing glass and mirrors.				
19	Broken glazing from steel windows	m²	48		
20	Remove and replace 400 x 300mm broken mirrors.	No	16		
	MAKING GOOD EXISTING SERVICES				
	Servicing and replacing showers:				
21	Service and replace shower roses.	No	16		
22	Service the shower floor drain and replace damaged inlets.	m	14		
	Carried to Collection Section No. 2 Bill No. 1 Alterations (provisional)			R	
	28				

			Amount	
BILL NO. 1  ALTERATIONS (PROVIS  COLLECTION	SIONAL)	Page No		
	Brought Forward from Page	25 26 27 28		
	Carried To Section Summary	R		
Section No. 2 Bill No. 1 Alterations (provisional)	29			

		1		SAFE Bat	tch 5
	Unit	Quantity	Rate	Amount	
SECTION NO. 2					
ALTERATIONS (PROVISIONAL)					
BILL NO. 2					
WATERPROOFING					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for					
Trades 2017" for supplementary and comprehensive					
expansion of descriptions, appropriate provision for which shall be deemed to have been included in all					
relevant rates					
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					
Complete pit sealing/waterproofing from seepage due to					
underground water ingress as result of high water table,					
perched water tables etc					
Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth					
of 2m, from the positive (water from inside) of substrate.					
Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The					
product must be able to withstand backfilling without					
protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is					
fully sealed (100% free from water ingress from outside					
and it will not penetrate the pit).					
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.					
Contractor to provide a Letter of Compliance confirming					
that waterproofing has been applied as per Manufacturer's instructions and data sheet.					
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Section No. 2					
Bill No. 2					
Waterproofing 30					
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		Unit	Quantity	Rate	Amount	
	JOINT SEALANTS ETC  Clear Neutral silicone sealant:					
1	In joint sealing and pointing all round external window and door frames.	m	260			
	Carried to Collection Section No. 2 Bill No. 2			R		
	Waterproofing 31					

			Amount	
BILL NO. 2 WATERPROOFING COLLECTION				
		Page No		
	Brought Forward from Page	30 31		
	Carried To Section Summary	R		
Section No. 2 Bill No. 2 Waterproofing				
	32			

		1		SAFE Batc	n 5
	Unit	Quantity	Rate	Amount	
SECTION NO. 2					
ALTERATIONS (PROVISIONAL)					
BILL NO. 3					
ROOF COVERINGS					
Quantity Split:					
Note that the total quantity per each item is split into the					
various buildings and appears below each description as follows:					
A6 - DWG 06 - Grade R Ablutions					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
<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 drived 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					
Quality Assurance					
The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System					
<u>Guarantee</u>					
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.					
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Section No. 2 Bill No. 3					
Roof Coverings					
33					
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				SAFE Bat	tch 5
	Unit	Quantity	Rate	Amount	
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					
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					
Carried to Collection			R		
Section No. 2 Bill No. 3					
Roof Coverings					
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		Unit	Quantity	Rate	Amount	
	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					
	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.	m²	280			
	0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:					
2	Mono pitched ridge capping with 225mm lapping secured onto the roof.	m	40			
	ROOF AND WALL INSULATION					
	Sisalation Grade FR430 or equal approved heavy industrial insulation					
3	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	m²	280			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 3					
	Roof Coverings					
	35					

			Amount	
BILL NO. 3  ROOF COVERINGS  COLLECTION				
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	Brought Forward from Page	33 34		
		35		
	Carried To Section Summary	R		
Section No. 2 Bill No. 3				
Roof Coverings	36			

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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	ALTERATIONS (PROVISIONAL)					
	BILL NO. 4					
	CARPENTRY AND JOINERY					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	<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.					
	EAVES, VERGES, ETC					
	Everite Nutec or equal approved fibre cement					
1	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	80			
2	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	32			
	DOORS ETC					
	SANS Approved meranti:					
3	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	4			
4	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).	<b>N</b> ο	30			
	FRAMED FRAMES, ETC					
	Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:					
5	70 x 108mm rebated meranti frame.	m	20			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 4					
	Carpentry And Joinery					
	37					

		Unit	Quantity	Rate	Amount	. •
	Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:					
6		m	126			
	Carried to Collection			R		
	Section No. 2 Bill No. 4					
	Carpentry And Joinery 38					
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			Amount	
BILL NO. 4  CARPENTRY AND JOIN  COLLECTION	<u>ERY</u>	Dana Na		
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	Carried To Section Summary	R		
Section No. 2 Bill No. 4				
Carpentry And Joinery	39			

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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	ALTERATIONS (PROVISIONAL)					
	BILL NO. 5					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	NAILED UP AND SCREW UP CEILINGS					
	6mm Fibre-cement plain ceiling boards with H- profile galvanised steel jointing strips:					
1	Ceilings including 38 x 38mm sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.	m²	272			
		ff1 <sup>-</sup>	212			
2	Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.	No	4			
2						
3	125mm Coved cornice.	m	290			
	INSULATION					
	Non-combustible lightweight fibreglass insulation blanket:					
4	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m²	296			
	DRYWALL PARTITIONS					
	<u>Drywall partitions with approximately 15mm</u> thickboard to match existing cladding on both sides:					
5	Partitions approximately 2.3m high with bottom and top					
	tracks plugged.	m	8			
6	Insualtion material.	m²	19			
	Carried To Section Summary			R		
	Section No. 2					
	Bill No. 5					
	Ceilings Partitions And Access Flooring 40					
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	ALTERATIONS (PROVISIONAL)					
	BILL NO. 6					
	IRONMONGERY					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	Keys/Locks					
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys					
	Trade Names					
	Where trade names are specified other ironmongery approved by the Principal Agent may be used					
	<u>Fixing</u>					
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described					
	HINGES:					
1	$75 \times 100 \text{mm}$ Brass Medium duty ball bearing HMP butt hinges.	Pairs	34			
	<u>LOCKS</u>					
2	UNION 2277-78SS or equal approved three lever sash mortice lockset.	No	4			
3	UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	30			
	<u>HANDLES</u>					
4	Dorma DPH301B or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	60			
	Sundries:					
5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	34			
6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	34			
	Carried to Collection			<b>.</b>		
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	Bill No. 6					
	Ironmongery					
	41					

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		Unit	Quantity	Rate	Amount	
	SIGN PLATES:					
	All sign plates are to be with engraved blue perspex					
	all in accordance with the standard sign plates for					
	Schools.					
7	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	Nο	4			
	SUNDRIES					
	Halcast or equal approved"					
8	Thiefproof toilet roll holder plugged.	No	30			
	Satin Grey Plastics or equal approved					
9	Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x					
	480mm, floor standing loose.	No	20			
	Carried to Collection			R		
	Section No. 2			1		_
	Bill No. 6					
	Ironmongery					
	42					
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			Amount	
BILL NO. 6 IRONMONGERY COLLECTION				
		Page No		
	Brought Forward from Page	41 42		
Section No. 2 Bill No. 6	Carried To Section Summary	R		
Ironmongery	43			

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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2 ALTERATIONS (PROVISIONAL) BILL NO. 7 PLASTERING MODEL PREAMBLES The tenderer is referred to the "Model Preambles for					
	Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SCREEDS					
	Untinted granolithic, on concrete:					
1	30mm Thick on floors and landings.	m²	272			
	Carried To Section Summary			R		
	Section No. 2					
	Bill No. 7					
	Plastering 44					
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		Unit	Quantity	Rate	Amount	
MODEL	. PREAMBLES					
The tendes 2 expansion	derer is referred to the "Model Preambles for 2017" for supplementary and comprehensive on of descriptions, appropriate provision for hall be deemed to have been included in all					
WALL T	<u>riling</u>					
plaster	52 x 5mm Thick white glazed tiles fixed to (elsewhere measured) with and approved tile					
	/e to and pointed with white cement to:	2	16			
1 Walls in	splashbacks.	m²	16			
	Carried To Section Summary			R		
Section	No. 2					
Bill No. 8 Tiling	8					
Tilling	45					

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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	ALTERATIONS (PROVISIONAL)					
	BILL NO. 9					
	PLUMBING AND DRAINAGE					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	RAINWATER DISPOSAL:					
	Watertite or equal approved Aluminium Gutters and Downpipes:					
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	80			
2	Extra over eaves gutter for stopped end.	No	8			
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	6			
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	24			
5	Extra over rainwater downpipe for bends.	No	12			
	TAPS, VALVES, ETC					
	Solid Cast brass taps, valves, etc:					
6	Cobra KM2-200or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	30			
7	15mm Ball-o-stop valve.	No	30			
8	22mm Non Return valve.	No	30			
9	Shower rose to match existing.	No	16			
	WASTE UNIONS ETC					
	Outlets, traps, etc:					
10	40mm 342/50 CP bottle trap.	No	30			
11	40mm Code 316 chrome plated unslotted waste outlet.	No	30			
12	40mm Rubber "P" or "S" trap	No	30			
	Carried to Collection Section No. 2 Bill No. 9			R		
	Plumbing And Drainage					
	46				ıl	

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		Unit	Quantity	Rate	Amount	
	SANITARY FITTINGS					
	Vaal or equal approved:					
13	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]	No	2			
14	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.	No	16			
15	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: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm]	No	20			
16	Junior vitreous china low level suite colour White (Code: 751358), comprising 104° outlet washdown pan (Code: 751301) with matching 6 litre front single flush cistern (Code: 712034) including lid, fitments and flushpipe and Junior double flap wooden seat (Code: 8518Z0).	No	10			
17	Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:  SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. 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	4			
	Carried to Collection Section No. 2 Bill No. 9 Plumbing And Drainage			R		
	47					

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		Unit	Quantity	Rate	Amount	
	Franke Model DLX 101 or equal approved stainless steel single wall mounted wash trough:					
18	Franke 1,2mm Stainless steel HRT half round wash trough (Code 359400), size 1500 x 510 x 915mm high with 75mm high splashback and tiling key and left hand 40mm waste outlet, mounted to and including galvanized mild steel tubing framework with 40 x 40mm square galvanized mild steel leg and 100 x 40 x 30mm galvanized mild steel flat section cleats bolted to wall with and including 6mm diameter anchor bolts.	No	2			
	SANITARY PLUMBING					
	PVC waste or vent pipes and fittings:					
19	50mm Waste pipe.	m	68			
20	110mm Pipe.	m	20			
21	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	12			
	uPVC gulleys					
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.	No	4			
	Extra for:					
23	50mm Bend.	Nο	2			
24	50mm Access bend.	No	4			
25	100mm Access bend.	No	4			
	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					
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	Bill No. 9					
	Plumbing And Drainage 48					
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		Unit	Quantity	Rate	Amount	(cn 5
	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.					
	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	120			
27	22mm Pipe chased into brick walls.	m	34			
	Extra over polycop pipes for compression fittings:					
28	15mm Fittings.	No	42			
29	22mm Fittings.	No	34			
	Connection to existing water supply					
30	Allow for connection to existing water supply.	Item				
	Connection of water supply from Waste Water Treatment System (WWTS)					
31	Allow for connecting water supply from waste water treatment system.	Item				
	<u>Testing</u>					
32	Testing water pipe system	Item				
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	Section No. 2					
	Bill No. 9 Plumbing And Drainage					
	49					
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BILL NO. 9				
PLUMBING AND DRAINA	AGE			
COLLECTION				
		Page No		
	Brought Forward from Page	46		
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2 ALTERATIONS (PROVISIONAL) BILL NO. 10					
	<u>GLAZING</u>					
	TRADE PREAMBLES					
	Trade Preambles  For Trade Preambles refer to 'Specification of Materials and Methods' (PW371A) for the full descriptions of material to be used and work to be done in this Bill					
	SUPPLEMENTARY PREAMBLES					
	Proprietary items or materials:					
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Principal Agent.					
	GLAZING TO STEEL WITH PUTTY					
	6,38mm Clear laminated safety glass:					
1	Panes exceeding not exceeding 0,1m2.	m²	48			
	TOPS, SHELVES, DOORS, MIRRORS, ETC					
	6mm 'GG' quality polished silvered float glass copper backed mirrors with polished edges holed for and fixed with round rose chromium plated mirror screws with rubber buffers to plugs in brickwork or concrete:					
2	Mirror 450 x 600mm high with four screws.	No	18			
	Carried To Section Summary			R		
	Section No. 2			1		
	Bill No. 10					
	Glazing					
	51					

SECTION NO. 2 ALTERATIONS (PROVISIONAL) BILL NO. 11 PAINTWORK  MODEL PREAMBLES The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates  SUPPLEMENTARY PREAMBLES Trade Names Where trade names are specified it will read "or equal approved by Principal Agent before it is used. Contractor must prepare a fin x 1m sample in the presence of the Phincipal Agent. In this case, the Contractor must prepare a fin x 1m sample in the presence of the Phincipal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done. Contractor to provide a Letter of Compliance confirming that peoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK ON GRANOLITHIC SCREED Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey GE2 ABEPTIC INPUT Polyurethmae sell reveiling epoxy floor coating in strict accordance with the manufacturer's instructors, to be installed by an approved specialist applicator:  On Good.  Contractor to provide a Letter of Compliance and apply one coat wood primer, one undercoat and two coats exception one coat wood primer, one undercoat and two coats exception one coat wood primer, one undercoat and two coats exception one coat wood primer, one undercoat and mode coats exception one coat wood primer, one undercoat and mode coats exception one coat wood primer, one undercoat and mode coats exception one coat wood primer, one undercoat and two coats exceptions.  Carried to Collection  Section No. 2  Bill No. 11 Paintwork				, .		SAFE Bat	tch 5
ALTERATIONS (PROVISIONAL) BILL NO. 11 PAINTWORK  MODEL PREAMBLES The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates  SUPPLEMENTARY PREAMBLES Trade Names Where trade names are specified it will read "or equal approved"  Epoxy paint The product and its methodology for application must be approved by Principal Agent before it is used. Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done. Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK ON GRANOLITHIC SCREED Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62 ABERLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be Installed by an approved specialist applicator:  1 On floors  ON WOOD  Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eagsted lenamel paint as per Plascon or equal approved:  2 On doors  R  Ball No. 11 Paintwork			Unit	Quantity	Rate	Amount	
ALTERATIONS (PROVISIONAL) BILL NO. 11 PAINTWORK  MODEL PREAMBLES The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates  SUPPLEMENTARY PREAMBLES Trade Names Where trade names are specified it will read "or equal approved"  Enoxy paint The product and its methodology for application must be approved by Principal Agent before it is used. Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done. Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK ON GRANOLITHIC SCREED Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62 ABEFLO HPU" Polyurathens estif levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  1 On floors.  ON WOOD  Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats agashell enamel paint as per Plascon or equal approved:  2 On doors  R  Carried to Collection  R  Baction No. 2  Bill No. 11  Paintwork		SECTION NO. 2					
BILL NO. 11 PAINTWORK  MODEL PREAMBLES  The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all refevant rates  SUPPLEMENTARY PREAMBLES  Trade Names  Where trade names are specified it will read "or equal approved"  Epoxy paint  The product and its methodology for application must be approved by Principal Agent before it is used.  Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.  Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK ON GRANOLITHIC SCREED  Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62  ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  1 On floors.  ON WOOD  Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats agashell enamel paint as per Plascon or equal approved:  On doors  Carried to Collection  Section No. 2  Bill No. 11  Paintwork							
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Trade Names  Where trade names are specified it will read "or equal approved"  Eboxy paint  The product and its methodology for application must be approved by Principal Agent before it is used.  Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent, In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.  Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK  ON GRANOLITHIC SCREED  Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62  ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  On floors.  ON WOOD  Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eagshell enamel paint as per Plascon or equal approved:  On doors  Carried to Collection  R  Bill No. 11  Paintwork		Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all					
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approved"  Epoxy paint  The product and its methodology for application must be approved by Principal Agent before it is used.  Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.  Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK  ON GRANOLITHIC SCREED  Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62  ABEFLO HPU" Polyurethane self levellling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  On floors.  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:  On doors  Carried to Collection  Section No. 2  Bill No. 11  Paintwork		<u>Trade Names</u>					
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presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.  Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.  PAINTWORK ETC TO NEW WORK  ON GRANOLITHIC SCREED  Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62 ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  On floors.  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:  On doors  Carried to Collection  Section No. 2 Bill No. 11 Paintwork							
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ON GRANOLITHIC SCREED  Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62 ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  On floors. m² 272  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:  On doors m² 116  Carried to Collection  Section No. 2  Bill No. 11  Paintwork		that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once					
Prepare surfaces and remove all loose material, apply "ABE Construction Chemicals Pale Grey G62 ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  On floors. m² 272  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 egual approved:  On doors m² 116  Carried to Collection  Section No. 2  Bill No. 11  Paintwork		PAINTWORK ETC TO NEW WORK					
apply "ABE Construction Chemicals Pale Grey G62 ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an approved specialist applicator:  On floors. m² 272  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:  On doors m² 116  Carried to Collection Section No. 2 Bill No. 11 Paintwork		ON GRANOLITHIC SCREED					
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:  2 On doors m² 116  Carried to Collection R  Section No. 2  Bill No. 11  Paintwork		apply "ABE Construction Chemicals Pale Grey G62 ABEFLO HPU" Polyurethane self levelling epoxy floor coating in strict accordance with the manufacturers instructions, to be installed by an					
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:  2 On doors	1	On floors.	m²	2 <b>7</b> 2			
apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:  2 On doors		ON WOOD					
Carried to Collection R  Section No. 2  Bill No. 11  Paintwork		apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal					
Section No. 2 Bill No. 11 Paintwork	2	On doors	m²	116			
Bill No. 11 Paintwork		Carried to Collection			R		
Paintwork		Section No. 2					
		Bill No. 11					
52							
		52					

					SAFE Ba	e nose
		Unit	Quantity	Rate	Amount	
3	On door frames	m	124			
	ON FIBRE-CEMENT					
	Prepare and apply two coats pure acrylic roof paint					
	on:					
4	On fascias and barge boards.	m²	60			
	Prepare and apply one coat plaster primer and two coats Super Universal Enamel paint:					
5	On general surfaces of ceilings.	m²	272			
	PAINTWORK ETC TO EXISTING WORK					
	ON FLOATED PLASTER SURFACES					
	Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats Super Acrylic Polvin paint:					
6	On internal walls.	m²	616			
7	On external walls.	m²	144			
	ON BRICKWORK					
	Prepare and wash all grease and stains from					
	surfaces and remove all loose material, apply one					
0	coat bonding liquid and two coats "Brixseal"  On external facebrick walls.	2	202			
8		m²	202			
	ON WOOD					
	Prepare surfaces and apply one coat Woodcare clear varnish (CI5) thinned 25% and finish with two coats Woodcare clear varnish (CVI5), lightly sanded between coats:					
9	On timber benches.	m²	8			
	ON METAL					
	Prepare and apply galvanized iron cleaner (GIC1), one coat galvanized iron primer (GIP1) and two finishing coats of Velvaglo Satin paint:					
10	On steel window frames (Both sides measured).	m²	18			
11	On steel door frames (Both sides measured).	m²	8			
	Carried to Collection Section No. 2			R		
	Bill No. 11					
	Paintwork					
	53					

## GCINUBUZWE CS - IKM SAFE Batch 5

BILL NO. 11  PAINTWORK  COLLECTION			Amount	
		Page No		
	Brought Forward from Page	52 53		
Ocalian No. 0	Carried To Section Summary	R		
Section No. 2 Bill No. 11 Paintwork				
	54			

			3AFE Dat	
			Amount	
	SECTION NO. 2			
	ALTERATIONS (PROVISIONAL)			
	SECTION SUMMARY			
Bill No.		Page		
1	ALTERATIONS (PROVISIONAL)	29		
2	WATERPROOFING	32		
3	ROOF COVERINGS	36		
4	CARPENTRY AND JOINERY	39		
5	CEILINGS PARTITIONS AND ACCESS FLOORING	40		
6	IRONMONGERY	43		
7	PLASTERING	44		
8	TILING	45		
9	PLUMBING AND DRAINAGE	50		
10	GLAZING	51		
11	PAINTWORK	54		
	Carried to Final Summary	R		
	Section No. 2	K		
	SECTION SUMMARY			
	55			

## SECTION NO. 3 NEW WORKS

		_	_	SAFE Batch
	Unit	Quantity	Rate	Amount
SECTION NO. 3				
NEW WORKS				
BILL NO. 1				
<u>EARTHWORKS</u>				
Quantity Split:				
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
A6 - DWG 06 - Grade R Ablutions				
MODEL PREAMBLES				
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
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.				
Nature of material to be excavated:				
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".				
Carting away of excavated material:				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.				
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				
Carried to Collection			R	
Section No. 3				
Bill No. 1 Earthworks				
Earthworks 57				

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,	
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,	
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,	
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 ouklip 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.	
EXCAVATION OTHER THAN BULK	
Excavation in earth not exceeding 2m deep:	
1 Trenches. m³ 5	
2 Reducing levels and depositing excavated material in	
prescribed stock piles on site. m³ 11	
Extra over trench and hole excavations in earth for excavation in:	
3 Soft rock. m³ 2	
4 Hard rock. m³ 1	
Extra over all excavations for carting away:	
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.  m³ 15	
Risk of collapse of excavations:	
Sides of trench and hole excavations not exceeding 1,5m deep.	
Keeping excavations free of water:	
7 Keeping excavations free from mud and all water including subterranean sources. Item	
	+
Carried to Collection R	
Section No. 3	
Bill No. 1 Earthworks	
58	

					SAFE Ba	itch 5
		Unit	Quantity	Rate	Amount	
	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	Under floors, etc.	m³	4			
	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to trenches, holes, etc.					
9	Under floors, etc.	m³	4			
	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.					
10	Under floors, etc.	m³	11			
11	Coarse river sand filling supplied by the contractor: Under floors etc.	m³	2			
'		'''	_			
12	Compaction of surfaces:  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	24			
	Prescribed density tests on filling:					
13	Allow for compaction tests by an approved laboratory to determine density of filling material.	Nο	8			
	SOIL POISONING					
14	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:  Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m²	24			
	Carried to Collection Section No. 3			R		_
	Bill No. 1					
	Earthworks 59					

			Amount	
BILL NO. 1 EARTHWORKS COLLECTION				
		Page No		
	Brought Forward from Page	57		
		58		
		59		
Continue No. 2	Carried To Section Summary	R		
Section No. 3 Bill No. 1				
Earthworks	60			

		1		SAFE Bat	tch 5
	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
NEW WORKS					
BILL NO. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					
Quantity Split:					
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
A6 - DWG 06 - Grade R Ablutions					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
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.					
Cost of tests:					
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).					
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.					
Carried to Collection			R		
Section No. 3					
Bill No. 2					
Concrete, Formwork And Reinforcement					
61					

					SAFE Bai	ten 5
		Unit	Quantity	Rate	Amount	
	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.					
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	15Mpa/19mm Concrete					
1	Surface blinding under footings and bases.	m³	1			
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	30MPa/20mm concrete:					
2	Concrete raft slab on waterproofing	m³	7			
	TEST BLOCKS					
	Test blocks:					
3	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6			
	FINISHING TOP SURFACE OF CONCRETE					
	Finishing top surfaces of concrete smooth with a wood float:					
4	Surface beds, suspended slabs, ground slabs, etc.	m²	24			
	ROUGH FORMWORK (DEGREE OF ACCURACY III)					
	Rough Formwork to Sides:					
5	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	21			
	SMOOTH FORMWORK (DEGREE OF ACCURACY I)					
	Smooth Formwork to Sides:					
6	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	11			
	Carried to Collection			Б.		
	Section No. 3			R		
	Bill No. 2					
	Concrete, Formwork And Reinforcement					
	62					

		1			SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
	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)		31			
7	Not exceeding 300mm wide.	m	31			
3	<u>Saw cut joints:</u> 6 x 40mm Saw cut joints in top of concrete (Provisional).	m	20			
)		I	20			
,	REINFORCEMENT (PROVISIONAL)  High tensile steel reinforcement bars to structural					
	concrete work.	Tonnes	1.00			
	Fabric reinforcement:					
	REF. 617 fabric reinforcement in concrete surface beds,					
	raft slabs, etc.	m²	24			
	Carried to Collection			R		
	Section No. 3			K		
	Bill No. 2					
	Concrete, Formwork And Reinforcement					
	63					

		Amount	
BILL NO. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
COLLECTION			
	Page No		
Brought Forward from Page	61		
	62		
	63		
Carried To Section Summary	R		
Section No. 3 Bill No. 2			
Concrete, Formwork And Reinforcement			
64			

		ı	1	SAFE Bat	tch 5
	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
NEW WORKS					
BILL NO. 3					
MASONRY					
Quantity Split:					
Note that the total quantity per each item is split into the					
various buildings and appears below each description as follows:					
A6 - DWG 06 - Grade R Ablutions					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
All references to SABS shall be deemed to be the relevant SANS specification					
SUPPLEMENTARY PREAMBLES					
BRICKWORK					
Sizes in descriptions					
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick					
Hollow walls etc					
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 "Brixeal" bitumen emulsion waterproofing coating.					
Face bricks					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
Pointing					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
Carried to Collection Section No. 3 Bill No. 3 Masonry			R		
65					

Samples Samples of all macony building units, except those of wills described as "loadbearing", shall consist of a mile described as "loadbearing", shall consist of a mile described as "loadbearing", shall consist of a mile 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"  BRICKWORK AND BLOCKWORK SUNDRIES Gaivanized brickwork reinforcement 1 115rm Wilde reinforcement built in horizontally m 53 2 230mm Wilde reinforcement built in horizontally m 56  Carmos, ties, etc: 3 30 x 2mm Gaivanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.  Air bricks etc: 4 229 x 152mm terrecotta clay vermin proof air brick Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two casts "Brixee!" bitunen emulsion waterproofing coating: To walls (Provisional).  Samples: 6 Prepare and construct for approval L-Shaped one brickwalf faced and pointed both sides as per given specification, aize: 1000x1000x1000x100mm high, same position to be praved as per given specifications.  Turning pieces to lintels etc: 7 230mm Wilde turning pieces.  Carried to Collection Section No. 3 Bill No. 3 Masonry  66			ı	1 1		SAFE Bai	ton 5
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"  BRICKWORK AND BLOCKWORK SUNDRIES  Galvanized brickwork reinforcement  115mm Wide reinforcement built in horizontally.  Tramps, ties, etc:  3 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.  Air bricks etc:  229 x 152mm terracotta clay vermin proof air brick  Bagging and sealing the outer face of the inner skin of walls with 13 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:  To walls (Provisional).  To walls (Provisional).  Samples:  Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x100x100mm high, same position to be paved as per given specifications.  Turning pieces to lintels etc:  230mm Wide turning pieces.  Carried to Collection  R  Bection No. 3  Bill No. 3  Masonry			Unit	Quantity	Rate	Amount	
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		Samples					
Where trade names are specified it will read "or equal approved"  BRICKWORK AND BLOCKWORK SUNDRIES  Galvanized brickwork reinforcement  1 115mm Wide reinforcement built in horizontally m 53  2 230mm Wide reinforcement built in horizontally m 262  Cramps, ties, etc;  3 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.  Air bricks etc;  2 29 x 152mm terracotta clay vermin proof air brick No 12  Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:  To walls (Provisional).  Samples:  6 Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x100x1000x1000mm high, same position to be paved as per given specifications.  Item  Turning pieces to lintels etc:  7 230mm Wide turning pieces.  Carried to Collection  Section No. 3  Bill No. 3  Masonry		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					
approved* BRICKWORK AND BLOCKWORK SUNDRIES Galvanized brickwork reinforcement  1 115mm Wide reinforcement built in horizontally m 53 2 230mm Wide reinforcement built in horizontally m 262 Cramps, ties, etc; 3 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.  Air bricks etc: 229 x 152mm terracotta clay vermin proof air brick Bagging and sealing the outer face of the inner skin of walls with 1:3 coment and sand mixture and seal with two coats "Brixes" bitumen emulsion waterproofing coating:  To walls (Provisional).  Samples: 6 Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000x1000mm high, same position to be paved as per given specifications.  Turning pieces to lintels etc: 7 230mm Wide turning pieces.  Carried to Collection Section No. 3 Bill No. 3 Masonry		Trade names					
Galvanized brickwork reinforcement  1 115mm Wide reinforcement built in horizontally m 53  2 230mm Wide reinforcement built in horizontally. m 262  Cramps, ties, etc: 3 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. No 26  Air bricks etc: 4 229 x 152mm terracotta clay vermin proof air brick No 12  Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixes" bitumen emulsion waterproofing coating: 5 To walls (Provisional). m² 67  Samples: 6 Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high, same position to be paved as per given specifications. Item  Turning pieces to lintels etc: 7 230mm Wide turning pieces. m 10  Carried to Collection R  Bill No. 3  Masonry							
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3 0 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.  Air bricks etc: 4 229 x 152mm terracotta clay vermin proof air brick  Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:  5 To walls (Provisional).  Samples:  Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high, same position to be paved as per given specifications.  Turning pieces to lintels etc: 230mm Wide turning pieces.  m 10  Carried to Collection  R  Section No. 3  Bill No. 3  Masonry		Cramps ties etc:					
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brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high, same position to be paved as per given specifications.  Turning pieces to lintels etc:  230mm Wide turning pieces.  m 10  Carried to Collection Section No. 3 Bill No. 3 Masonry		Samples:					
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Bill No. 3 Masonry					IX		_
Masonry							
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		Unit	Quantity	Rate	Amount	
	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):					
8	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	5			
9	One brickwall pointed on both sides.	m²	81			
10	Half brickwall pointed on both sides.	m²	16			
11	Fair raking cutting.	m	9			
	Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:					
12	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	5			
13	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	6			
	Carried to Collection Section No. 3 Bill No. 3 Masonry			R		
	67					

BILL NO. 3			Amount	
MASONRY COLLECTION				
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	Carried To Section Summary	R		
Section No. 3 Bill No. 3 Masonry				
	68			

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	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
NEW WORKS					
BILL NO. 4					
WATERPROOFING					
Quantity Split:					
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
A6 - DWG 06 - Grade R Ablutions					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
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					
Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc					
Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).					
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.					
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Section No. 3			ĸ		
Bill No. 4					
Waterproofing					
69					

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		Unit	Quantity	Rate	Amount	
	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.					
	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	24			
	One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:					
2	Below walls, sills, etc.	m²	2			
	JOINT SEALANTS ETC					
	Clear Neutral silicone sealant:					
3	In joint sealing and pointing all round external window and door frames.	m	38			
	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	20			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 4					
	Waterproofing					
	70					

BILL NO. 4 WATERPROOFING COLLECTION		Page No	Amount	
	Brought Forward from Page	69		
		70		
	Carried To Section Summan			
Section No. 3 Bill No. 4	Carried To Section Summary	R		
Waterproofing	71			

	Unit	Quantity	Rate	Amount
SECTION NO. 3				
NEW WORKS				
BILL NO. 5				
ROOF COVERINGS				
Quantity Split:				
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
A6 - DWG 06 - Grade R Ablutions				
MODEL PREAMBLES				
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
SUPPLEMENTARY PREAMBLES				
<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 drived 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				
Quality Assurance				
The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System				
<u>Guarantee</u>				
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.				
Carried to Collection			R	
Section No. 3				
Bill No. 5				
Roof Coverings				
72				

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	Unit	Quantity	Rate	Amount	
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					
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					
Carried to Collection Section No. 3 Bill No. 5 Roof Coverings			R		
73					
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Cleaning of Roofs, etc  All debris, etc arising from the fixing of the cladding shall be removed from the sheatin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrells from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cardons, 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, slocks or partially impedes the flow of weter into the outlets, downpipes, etc  ROOF COVERINGS  PROFILED METAL SHEETING AND ACCESSORIES  0,58mm Thick 2200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadck" finish to extremal face and standard backing coat to internal face:  1 Moof sheeting laid to a mone-pitch.  2 Mono pitched ridge capping with 225mm lapping secured onto the roof.  2 Mono pitched ridge capping with 225mm lapping secured onto the roof.  3 Mono pitched ridge capping with 225mm lapping secured onto the roof.  3 Mono pitched ridge capping with 225mm lapping secured onto the roof.  3 Mono pitched ridge capping with 25mm lapping secured onto the roof.  4 Mono pitched ridge capping with 25mm lapping secured onto the roof.  5 Mono pitched ridge capping with 25mm lapping secured onto the roof.  6 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof.  8 Mono pitched ridge capping with 25mm lapping secured onto the roof ridge capping with 25mm lapping secured onto the roof ridge capping with 25mm lapping secured onto the roof ridge capping with 25mm lapping secured onto the roof ridge capping with 25mm	ı			1		SAFE Ba	itch 5
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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, dood packaging, cardons, 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  ROOF COVERINGS  PROFILED METAL SHEETING AND ACCESSORIES  9,58mm Thick 2200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" flinish to external face and standard backing coat to internal face:  1 Roof sheeting laid to a mono-pitch.  9,58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:  2 Mono pitched ridge capping with 225mm lapping secured onto the roof, ROOF AND WALL INSULATION  Sisalation Grade FR430 or equal approved heavy industrial insulation  3 Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purins at 900mm centres, etc including galvanised steel straining wires  Carried to Collection  Section No. 3  Bill No. 5  Roof Coverings		Cleaning of Roofs, etc					
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.  0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:  2 Mono pitched ridge capping with 225mm lapping secured onto the roof.  ROOF AND WALL INSULATION  Sisalation Grade FR430 or equal approved heavy industrial insulation  3 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  Carried to Collection  Section No. 3  Bill No. 5  Roof Coverings		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					
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Secured onto the roof.  ROOF AND WALL INSULATION Sisalation Grade FR430 or equal approved heavy industrial insulation 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  Carried to Collection  Section No. 3 Bill No. 5 Roof Coverings		sheeting and fixed in strict accordance with					
Sisalation Grade FR430 or equal approved heavy industrial insulation  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   Carried to Collection  Section No. 3  Bill No. 5  Roof Coverings	2		m	8			
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  Carried to Collection  Section No. 3  Bill No. 5  Roof Coverings		ROOF AND WALL INSULATION					
100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires  Carried to Collection  Section No. 3  Bill No. 5  Roof Coverings							
Section No. 3 Bill No. 5 Roof Coverings	3	100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel	m²	34			
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BILL NO. 5 ROOF COVERINGS COLLECTION				
		Page No		
	Brought Forward from Page	72 73		
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Section No. 3 Bill No. 5 Roof Coverings	<b>,</b>			
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	NEW WORKS					
	BILL NO. 6					
	CARPENTRY AND JOINERY					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A6 - DWG 06 - Grade R Ablutions					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	<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.					
	CARPENTRY					
	Sawn softwood:					
1	38 x 114mm Wall plate.	m	15			
2	50 x 76mm Purlins.	m	62			
3	50 x 76mm Bracing.	m	12			
4	38 x 152mm Rafters.	m	44			
	Sundries:					
5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	Nο	40			
	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.	m	15			
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.	m	9			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 6					
	Carpentry And Joinery					
	76				II	

					SAFE Ba	itch 5
		Unit	Quantity	Rate	Amount	
	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	1			
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			
10	44mm Braced and ledged door size 862 x 1000mm (D3).	No	3			
11	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	1			
	FRAMED FRAMES, ETC					
	Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:					
12	70 x 108mm rebated meranti frame .	m	13			
	Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:					
13	70 x 108mm rebated meranti frame .	m	5			
	Carried to Collection Section No. 3 Bill No. 6 Carpentry And Joinery			R		
	77					
			· ·			

			Amount	
BILL NO. 6  CARPENTRY AND JOIN COLLECTION	<u>ERY</u>	Page No		
	Brought Forward from Page	76 77		
	Carried To Section Summary	R		
Section No. 3 Bill No. 6 Carpentry And Joinery				
	78			

		Unit	Quantity	Rate	SAFE Ba  Amount	ton 5
		Oill	Quality	itato	, anount	
	SECTION NO. 3					
	NEW WORKS					
	BILL NO. 7					
	IRONMONGERY					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A0 - DWG 06 - Grade R Ablutions					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	Keys/Locks					
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys					
	Trade Names					
	Where trade names are specified other ironmongery approved by the Principal Agent may be used					
	<u>Fixing</u>					
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described					
	HINGES:					
1	$75 \times 100$ mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	5.0			
	LOCKS					
2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	2			
3	"UNION w/c indicator bolt satin chrome - CodeCZ80941SC.	No	3			
	<u>HANDLES</u>					
4	Dorma DPH301B or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	5			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 7					
	Ironmongery 79					
	79				II	

					SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
	Sundries:					
5	Stainless Steel Hat and coat hook, code DHC - SS-030A or equal approved.	No	3			
6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	5			
	SIGN PLATES:					
	All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.					
7	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	2			
	SUNDRIES					
	Halcast or equal approved"					
8	Thiefproof toilet roll holder plugged.	No	4			
	Grade 304 stainless steel ware:					
9	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	1			
10	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	1			
	On the state of th			_		
	Carried to Collection Section No. 3			R		
	Bill No. 7					
	Ironmongery					
	80				.	

BILL NO. 7 IRONMONGERY COLLECTION		Page No	Amount	
	Brought Forward from Page	79		
		80		
	Carried To Section Summary	R		
Section No. 3 Bill No. 7				
Ironmongery	81			

					SAFE Bat	ich 5
		Unit	Quantity	Rate	Amount	l
	SECTION NO. 3  NEW WORKS  BILL NO. 8  METALWORK  Quantity Split:  Note that the total quantity per each item is split into the various buildings and appears below each description as follows:  A6 - DWG 06 - Grade R Ablutions  MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES  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					
	ALUMINIUM WINDOWS  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.  Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:					ſ
1	Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01.	No	8			
	Carried to Collection Section No. 3 Bill No. 8 Metalwork			R		
	82				ll l	

					SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
	HOT DIP GALVANIZED STEEL GATES					
	Note: The contractor is to check on site					
	measurements before placing of order.					
	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 including locks, handles, ironmongery					
	complete and fixed to brickwork:					
2	Security gate size 900 x 2050mm high (G1).	No	1			
	Carried to Collection			<b>.</b>		
	Section No. 3			R		<u> </u>
	Bill No. 8					
	Metalwork					
	83					
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BILL NO. 8  METALWORK  COLLECTION	Brought Forward from Page	Page No 82 83	Amount	
	Carried To Section Summary	R		
Section No. 3 Bill No. 8 Metalwork	84	K		

			ı		SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3 NEW WORKS					
	BILL NO. 9 PLASTERING					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A6 - DWG 07 - Grade R Ablutions					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SCREEDS					
	Untinted granolithic, on concrete:					
1	30mm Thick on floors and landings.	m²	24			
	<u>Skirtings</u>					
2	75mm High coved granolithic skirting.	m	30			
	Carried To Section Summary			R		
	Section No. 3					
	Bill No. 9					
	Plastering 85					

					SAFE Ba	iton 5
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	NEW WORKS					
	BILL NO. 10					
	PLUMBING AND DRAINAGE					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A6 - DWG 06 - Grade R Ablutions					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	RAINWATER DISPOSAL:					
	Watertite or equal approved Aluminium Gutters and Downpipes:					
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	8			
2	Extra over eaves gutter for stopped end.	No	2			
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	2			
4	$100 \times 75 \times 0.6$ mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	9			
5	Extra over rainwater downpipe for bends.	No	3			
	TAPS, VALVES, ETC					
	Solid Cast brass taps, valves, etc:					
6	"Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	3			
7	15mm Ball-o-stop valve.	No	3			
8	22mm Non Return valve.	No	5			
	WASTE UNIONS ETC					
	Outlets, traps, etc:					
9	40mm Code 316 chrome plated unslotted waste outlet.	Nο	3			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 10					
	Plumbing And Drainage					
	86					

					SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
10	40mm Rubber "P" or "S" trap	No	3			
	SANITARY FITTINGS					
	Vaal or equal approved:					
11	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]	No	3			
12	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.	No	3			
13	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: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm]	No	1			
14	Junior vitreous china low level suite colour White (Code: 751358), comprising 104° outlet washdown pan (Code: 751301) with matching 6 litre front single flush cistern (Code: 712034) including lid, fitments and flushpipe and Junior double flap wooden seat (Code: 8518Z0).	No	3			
	CANITADY DI HIMDING	110				
	SANITARY PLUMBING  PVC waste or vent pipes and fittings:					
15	50mm Waste pipe.	m	30			
	•					
16	110mm Pipe.	m	4			
17	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	25			
	Carried to Collection			R		
	Section No. 3			K		
	Bill No. 10 Plumbing And Drainage					
	87					
			·			

1			1 1		SAFE Bai	icn 5
		Unit	Quantity	Rate	Amount	
	uPVC gulleys					
18	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.	No	1			
	Extra for:					
19	50mm Bend.	No	10			
20	50mm Access bend.	No	3			
21	100mm Access bend.	No	4			
	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.					
	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:					
22	15mm Pipe chased into brick walls.	m	35			
23	22mm Pipe chased into brick walls.	m	20			
	Extra over polycop pipes for compression fittings:					
24	15mm Fittings.	No	29			
	Carried to Collection Section No. 3			R		
	Bill No. 10					
	Plumbing And Drainage					
	88					

					SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
25	22mm Fittings.	No	29			
	Connection to existing water supply:					
26	Allow for connection to existing water supply.	Item				
	Connection of water supply from Waste Water					
	Treatment System (WWTS):					
27	Allow for connecting water supply from waste water treatment system.	Item				
	Testing:					
28	Testing water pipe system.	Item				
20	resting water pipe system.	IGIII				
	Carried to Collection			R		
	Section No. 3 Bill No. 10					
	Plumbing And Drainage					
	89					

			Amount	
BILL NO. 10 PLUMBING AND DRAINA COLLECTION	AGE			
		Page No		
	Brought Forward from Page	86 87		
		88 89		
	Carried To Section Summary	R		
Section No. 3 Bill No. 10 Plumbing And Drainage				
	90			

					SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	NEW WORKS					
	BILL NO. 11 PAINTWORK					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A6 - DWG 06 - Grade R Ablutions					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	<u>Trade Names</u>					
	Where trade names are specified it will read "or equal approved"					
	Epoxy paint					
	The product and its methodology for application must be approved by Principal Agent before it is used.					
	Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.					
	Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.					
	PAINTWORK ETC 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:					
	On doors	m²	13			
2	On door frames	m²	4			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 11 Paintwork					
	91					
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					SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
3	Prepare and apply two coats carbolenium on: On exposed timbers. ON FIBRE-CEMENT Prepare and apply two coats pure acrylic roof paint	m²	12			
	on:					
4		m²	8			
	Carried to Collection			R		
	Section No. 3 Bill No. 11					
	Paintwork					
	92					
1			, 1			1

BILL NO. 11			Amount	
PAINTWORK  COLLECTION		Page No		
		raye No		
	Brought Forward from Page	91		
		92		
Section No. 3	Carried To Section Summary	R		
Bill No. 11 Paintwork				
	93			

		ı	SAFE Bat	tch 5
			Amount	
	SECTION NO. 3			
	NEW WORKS			
	SECTION SUMMARY			
Bill No.		Page		
1	EARTHWORKS	60		
2	CONCRETE, FORMWORK AND REINFORCEMENT	64		
3	MASONRY	68		
4	WATERPROOFING	71		
5	ROOF COVERINGS	75		
6	CARPENTRY AND JOINERY	78		
7	IRONMONGERY	81		
8	METALWORK	84		
9	PLASTERING	85		
10	PLUMBING AND DRAINAGE	90		
11	PAINTWORK	93		
	Coming to Final Community			
	Carried to Final Summary Section No. 3	R		
	SECTION SUMMARY			
	94			
		I.	11 1	

## SECTION NO. 4 EXTERNAL WORKS (PROVISIONAL)

1			1		SAFE Ba	icn 5
		Unit	Quantity	Rate	Amount	
	SECTION NO. 4					
	EXTERNAL WORKS (PROVISIONAL)					
	BILL NO. 1					
	EXTERNAL WORKS					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	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	34			
^	Objective constant and					
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m²	34			
	Open face excavation not exceeding 2m deep:					
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	24			
	Extra over all excavations for carting away:					
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m³	24			
	Earth filling from excavated material:					
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	12			
	Filling supplied by the contractor to form platforms:					
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	22			
	Carried to Collection			R		L
	Section No. 4					
	Bill No. 1					
	External Works					
	96				I	

			1		SAFE Ba	e nose
		Unit	Quantity	Rate	Amount	
	Surface Preparation:					
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	24			
	Prescribed density tests on filling:					
8	Modified AASHTO Density test.	No	8			
	WATER RETICULATION					
	WATER SUPPLY IN GROUND					
	HDPE 100PN 12.5 pressure pipes:					
9	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	98			
10	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	45			
	·	'''	40			
	Extra over (PN12.5) HDPE piping for fittings:					
11	32mm Bend.	No	3			
12	32mm Adaptor.	No	3			
13	40mm Bend.	No	4			
14	32mm Tee.	No	4			
15	40mm Tee.	No	4			
	TAPS, VALVES, ETC					
16	32mm "Cobra" Ball Valve complete with adaptors for HDPE pipe.	No	4			
17	32mm Non-return valve.	No	4			
	Municipal connection					
	Sundries:					
18	Allow for amount of R20 000.00 (Twenty Thousand Rand) for municipal water connection to be used at the					
	discretion of the Principal Agent and deducted in whole or in part if not required.	Item				
19	Allow for profit if required.	Item				
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
	97					

Testing:  Testing:  Testing water pipe system.  SEWER RETICULATION  MODEL PREAMBLES  The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates  SUPPLEMENTARY PREAMBLES  Soil, waste and vent pipes and fittings shall be solvent weld jointed.  UPVC pipes and fittings Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.  Exexutions:  No claim for rook excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.  Soft rock and hard rock shall be as defined in Earthworks.  Laving, beckfilling, bedding, etc of pipes:  Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.  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: Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 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:  Carried to Collection  Section No. 4  Bill No. 1  External Works				ı		SAFE Bat	tch 5
Testing water pipe system.  SEWER RETICULATION MODEL PREAMBLES The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates  SUPPLEMENTARY PREAMBLES Soil, waste and vent pipes and fittings shall be solivent weld jointed.  UPVC pipes and fittings Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.  Excavations:  No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. Soft rock and hard rock shall be as defined in Earthworks.  Laving, backfilling, bedding, etc of pipes: Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.  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 clauses 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 intenches: Descriptions of pipes laid in intenches: Carried to Collection to a minimum of 95% Mod AASHTO density and disposal of surplus material on site  Carried to Collection Section No. 4 Bill No. 1 External Works			Unit	Quantity	Rate	Amount	
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		Unit	Quantity	Rate	Amount	
	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.					
	BULK SEWER RETICULATION					
	Heavy duty (Class 34) PVC-U sewer and drain pipes:					
21	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	120			
22	110mm Pipes laid in and including trenche exceeding 1m but not exceeding 2m deep.	m	20			
	Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings:					
23	110mm Bend.	No	9			
24	160mm Bend.	Nο	6			
25	110mm Rodding eye.	No	9			
26	160 x 110mm Reducing junction.	No	9			
	PRE-CAST CONCRETE MANHOLES					
	Pre-cast concrete circular inspection chambers including pre-cast concrete cover slabs, covers and channels in benching:					
27	Manhole 1000mm diameter not exceeding 1m deep.	No	8			
28	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	Nο	5			
	SUNDRIES					
	Earthworks:					
29	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m³	42			
30	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m³	21			
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		Unit	Quantity	Rate	Amount	
31	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	m³	13			
	Manhole covers:					
32	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	13			
	Connection:					
33	Allow for connecting to Waste Water Treatment System (WWTS).	Item				
	Testing:					
34	Testing drainage system.	Item				
	THE FOLLOWING IN WALKWAYS					
	Excavation not exceeding 2m deep					
35	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	44			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
36	Off site to a dumping site to be found by the Contractor.	m³	44			
	Filling supplied by the contractor under walkways					
37	G7 Base course material compacted to 98% Mod					
	AASHTO density	$m^3$	15			
38	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m³	29			
	Rip and Re - compact insitu material on site					
	compacted to 93% Mod. AASHTO density:					
39	Under floors,etc.	m²	98			
	Prescribed density tests on filling:					
40	In-situ dry density test.	No	8			
	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:					
41	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m²	98			
	Carried to Collection Section No. 4			R		
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	External Works					
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		Unit	Quantity	Rate	Amount	
	Concrete Paving Blocks					
	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:					
42	Paving to walkway areas, etc laid to falls.	m²	98			
43	Extra over ordinary paving for 200mm wide block-on-flat header course edging on 100mm thick mortar bed including unreinforced concrete haunching along outside edge.	m	131			
	<u>Kerbing</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.					
44	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	131			
45	Ditto but circular on plan.	m	13			
46	Fig. 12 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	26			
47	Ditto but circular on plan.	m	3			
	THE FOLLOWING IN DISABLED ACCESS					
	SCREEN WALL					
	Excavation in earth not exceeding 2m deep:					
48	Trenches.	m³	2			
	Extra over all excavations for carting away:					
49	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m³	1			
	Risk of collapse of excavations:					
50	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	6			
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	Section No. 4					
	Bill No. 1					
	External Works 101					

					SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
51	Backfilling to trenches, holes, etc.	m³	1			
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:					
52	Under footings.	m³	1			
	Compaction of surfaces					
53	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	2			
	25 Mpa/19mm Concrete					
54	Strip footings.	m³	1			
	Test blocks:					
55	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1			
	Reinforcement (Provisional)					
56	High tensile steel reinforcement bars to structural concrete work.	Tonnes	0.10			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
57	One brick walls.	m²	2			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
58	One brick walls.	m²	8			
	Brickwork reinforcement:					
59	230mm Wide reinforcement built in horizontally.	m	28			
60	Ditto but in foundations.	m	16			
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		Unit	Quantity	Rate	Amount	
	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):					
61	One brickwall faced on both sides.	m²	16			
	Brick-on-edge header course copings, sills, etc, of					
	"Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all					
	exposed faces, 220mm wide sill set sloping and					
	slightly projecting:					
62						
	bedded and jointed in cement mortar and pointed on top and both sides as described.					
		m	4			
	ACCESS RAMPS Excavation not exceeding 2m deep					
63	Reducing levels and depositing excavated material in					
03	prescribed stock piles on site.	m³	1			
	Extra over all excavations for loading, carting and					
	dumping surplus excavated material (no allowance made for increase in bulk):					
64	Off site to a dumping site to be found by the Contractor.	m³	1			
04			•			
	Filling supplied by the contractor under floors, aprons, etc					
65		3	4			
	AASHTO density	m³	1			
66	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	1			
	Coarse river sand filling supplied by the contractor:					
67	Under floors etc.	m³	1			
	Compaction of surfaces:					
68	Compaction of ground surface under floors etc including					
	scarifying for a depth of 150mm, breaking down oversize					
	material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m²	4			
		111	4			
	Carried to Collection			R		
	Section No. 4			K		
	Bill No. 1					
	External Works					
	103					
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		Unit	Quantity	Rate	Amount
69	Prescribed density tests on filling: In-situ dry density test.	<b>N</b> o	2		
	Reinforced 25Mpa/19mm Concrete:				
70	Ramps, Landings, etc.	m³	1		
	Finishing top surfaces of concrete smooth with a wood float:				
71	Surface beds, slabs, etc to falls and currents.	m²	4		
	Test blocks:				
72	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
73	12mm Joints not exceeding 300mm high.	m	3		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
74	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3		
	Fabric reinforcement:				
75	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m²	4		
	Waterproofing under Surface beds				
76	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m²	4		
	THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.				
	STORMWATER APRONS				
	Excavation not exceeding 2m deep				
77	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	25		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
78	Off site to a dumping site to be found by the Contractor.	m³	25		
	Carried to Collection Section No. 4			R	
	Section No. 4 Bill No. 1				
	External Works				
	104				

					SAFE Bat	tch 5
		Unit	Quantity	Rate	Amount	
	Filling supplied by the contractor under floors, aprons, etc					
79	G7 Base course material compacted to 98% Mod AASHTO density	m³	4			
80	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m³	4			
	Coarse river sand filling supplied by the contractor:					
81	Under floors etc.	m³	1			
	Compaction of surfaces:					
82	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	82			
	Prescribed density tests on filling:					
83	In-situ dry density test.	No	8			
	Reinforced 25Mpa/19mm Concrete:					
84	Surface beds cast in panels on waterproofing.	m³	11			
85	Edge thickening	m³	4			
	Finishing top surfaces of concrete smooth with a wood float:					
86	Surface beds, slabs, etc to falls and currents.	m²	82			
	Test blocks:					
87	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
88	12mm Joints not exceeding 300mm high.	m	24			
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
89	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	24			
	Fabric reinforcement:					
90	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m²	82			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
	105					

		Unit	Quantity	Rate	Amount
91	Waterproofing under Surface beds 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m²	82		
	STORMWATER CHANNELS				
92	Excavation not exceeding 2m deep	m³	6		
93	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	3		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
94	Off site to a dumping site to be found by the Contractor.	m³	6		
	Filling supplied by the contractor under channels				
95	G7 Base course material compacted to 98% Mod AASHTO density	m³	3		
96	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	3		
	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.				
97	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	30		
98	Extra for 700mm angle	No	5		
99	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	2		
	Carried to Collection Section No. 4 Bill No. 1 External Works			R	
	106				

		Unit	Quantity	Rate	Amount	J
	Sundries:					
100	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	30			
101	Construct shaped earth V-drain 2m wide with grass runners	m	16			
	THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.					
	Excavation not exceeding 2m deep					
102	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	3			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
103	Off site to a dumping site to be found by the Contractor.	m³	1			
	Filling supplied by the contractor under floors, aprons, channels etc					
104	G7 Base course material compacted to 98% Mod AASHTO density	m³	1			
105	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	1			
	Cooper vivay and filling augustical by the contractors	•••				
106	Coarse river sand filling supplied by the contractor: Under floors etc.	ma3	1			
106		m³	'			
	Compaction of surfaces:					
107	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	5			
	Prescribed density tests on filling:					
108	In-situ dry density test.	No	1			
	Reinforced 25Mpa/19mm Concrete:					
109	Surface beds cast in panels on waterproofing.	m³	1			
	Finishing top surfaces of concrete smooth with a wood float:					
110	Surface beds, slabs, etc to falls and currents.	m²	5			
	Carried to Collection			R		
	Section No. 4			• •		_
	Bill No. 1					
	External Works					
	107					

					SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
	Test blocks:					
111	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
112	12mm Joints not exceeding 300mm high.	m	2			
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
113	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	2			
	Fabric reinforcement:					
114	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m²	5			
	THE FOLLOWING IN RAINWATER TANKS AND STANDS					
	Excavation in earth not exceeding 2m deep:					
115	Trenches.	m³	6			
	Extra over all excavations for carting away:					
116	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m³	4			
	Risk of collapse of excavations:					
117	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	24			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
118	Backfilling to trenches, holes, etc.	m³	2			
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:					
119	Under footings.	m³	5			
	Compaction of surfaces					
120	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	12			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
	100				II	l

					SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
	25 Mpa/19mm Concrete					
121	Strip footings.	m³	2			
	25 MPa/19mm Concrete:					
122	Tank concrete slab.	m³	2			
	Test blocks:					
123	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3			
	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:					
124	Surface beds, slabs, etc.	m²	12			
	Rough Formwork to Sides:					
125	Edges, risers, ends and reveals not exceeding 300mm high.	m	24			
	Allens Meshco Square Mesh Fabric reinforcement:					
126	Type 617 fabric reinforcement in concrete slabs.	m²	12			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
127	One brick walls.	m²	11			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
128	One brick walls.	m²	12			
	Brickwork reinforcement:					
129	230mm Wide reinforcement built in horizontally.	m	96			
130	Ditto but in foundations.	m	96			
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	Carried to Collection Section No. 4 Bill No. 1 External Works			R		
	109					

					SAFE Ba	itch 5
		Unit	Quantity	Rate	Amount	
	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):					
131	Extra over brickwork for face brickwork externally.	m²	12			
	Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:					
132	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	24			
	Plastic water tanks etc:					
133	5000 Litre roto molded or equal approved plastic tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	3			
134	Hole top of tank for 100mm pipe.	No	3			
	THE FOLLOWING IN SECURITY FENCING, ETC					
	Site clearance					
135	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m²	134			
	Straining wires, fencing and razor wire:					
136	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	134			
137	3 Strands of galvanised barbed wire tied to standards,					
	posts and eye bolts	m	134			
	Carried to Collection					
	Section No. 4			R		_
	Bill No. 1					
	External Works					
	110				II	I

					SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
138	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	134			
	Posts for 1 800mm high security fence:					
139	60mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	39			
140	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	5			
141	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	2			
142	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	46			
143	Form 12mm diameter hole through fence post.	No	276			
	Gates:					
144	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1 External Works					
	111					

					SAFE Ba	tch 5
		Unit	Quantity	Rate	Amount	
145	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.  PADLOCKS	No	3			
146	Supply 50 mm "Viro" Padlocks and Keys (or equal approved )	No	4			
	Carried to Collection Section No. 4			R		
	Bill No. 1 External Works					
	112					

			Amount	
BILL NO. 1				
EXTERNAL WORKS				
COLLECTION				
		Page No		
	Brought Forward from Page	96		
		97		
		98		
		99		
		100		
		101		
		102		
		103		
		104		
		105		
		106		
		107		
		108		
		109		
		110		
		111		
		112		
		112		
	Carried To Section Summary	R		
Section No. 4 Bill No. 1				
External Works				
	113			

			Amount	
	SECTION NO. 4			
	EXTERNAL WORKS (PROVISIONAL)			
	SECTION SUMMARY			
Bill No.		Page		
1	EXTERNAL WORKS	113		
	Carried to Final Summary	R		
	Section No. 4 SECTION SUMMARY			
	114			

## SECTION NO. 5 PROVISIONAL SUMS

			SAFE Bat	ich 5
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	SECTION NO. 5			ı
	PROVISIONAL SUMS			ı
				ı
	SUPPLEMENTARY PREAMBLES			ı
	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 therto.			
	BUDGETARY ALLOWANCES			ı
	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:			ı
1	Provide the sum of R58 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (9 months)	ltem	58 500	00
2	Add: Mark-up	ltem		ı
	ALLOWANCES			ı
	40KL SECTIONAL STEEL WATER TANK			ı
3	Provide the sum of R 500 000.00 (Five Hundred Thousand Rand) for Supply and Installation of 40 KL Sectional Steel Tank elevated on a 10m high galvanised steel stand.		500,000	00
		Item	500 000	00
4	Profit on above item.	ltem		ı
5	Attendance on ditto.	Item		ı
	ELECTRICAL INSTALLATION			ı
6	Provide the sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) for Electrical installation.	ltem	150 000	00
7	Profit on above item.	ltem		ı
8	Attendance on ditto.	ltem		ı
	TEMPORARY ABLUTIONS			ı
9	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand Rand) for the Supply, Servicing and maintenance of temporary ablutions for the duration of the project and Removal thereof on completion.	ltem	250 000	00
10	Add: Profit on above item.	Item		ı
10	Add. From on above nom.	ireiii		ı
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	Bill No. 1			ı
	Provisional Sums			ı
	116			

## GCINUBUZWE CS - IKM SAFE Batch 5

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Bill No. 1	
Provisional Sums	

## GCINUBUZWE CS - IKM

	Amount	
SECTION NO. 5		
PROVISIONAL SUMS		
SECTION SUMMARY		
Page		
Brought forward from page 116		
Brought forward from page 117		
Carried to Final Summary R Section No. 5		
SECTION SUMMARY		
CESTISTA COMMUNICI		
118		

				GCINUBUZWE CS - SAFE Bat	
Section No.	FINAL SUMMARY	Page			
1	PRELIMINARIES	23			
2	ALTERATIONS (PROVISIONAL)	55			
3	NEW WORKS	94			
4	EXTERNAL WORKS (PROVISIONAL)	114			
5	PROVISIONAL SUMS	118			
	ADD: CONTINGENCIES				
	Allow the Amount of R225 000.00 (Two Hundred and Twenty Five Thousand Rands) for contingencies to be used by the Architect.			225 000	00
	SubTotal excluding Value Added Tax				
	ADD VAT @ 15%:				
	Carried to Tender		R		
	FINAL SUMMARY				
	119				
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