BILLS OF QUANTITIES

FOR

TSEKE PRIMARY SCHOOL

CONSTRUCTION OF ENVIROLOO TOILET BLOCK TYPE M2; M6; F6; F10; GR3; GR5 AND EXTERNAL WORKS

CIDB GRADE 4GB AND ABOVE

TSEKE PRIMARY SCHOOL BILL OF QUANTITIES

PRELIMINARIES

EM O	DESCRIPTION	QUANTITY	RATE	AMOUNT
<u>-</u>	SECTION 1			
	BILL NO. 1			
	PRELIMINARIES			
	BUILDING AGREEMENT AND PRELIMINARIES			
	The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described			
	The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities			
	Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof			
	These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents			
	Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"			
	Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence			
	PREAMBLES FOR TRADES			
	The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained			
	Carried Forward		F	1

	Brought Forward		R	
	Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project			
	The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles			
	GENERAL			
	If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value			
	SECTION A - PRINCIPAL BUILDING AGREEMENT			
	Definitions (A1)			
1	Definitions and interpretation (clause 1) F:T:	1		
	Objective and Preparation (A2 to A14)			
	Offer acceptance and performance (clause 2)			
2	F: V: T: Item	1		
	Documents (clause3)			
3	F:T:Tilem	1		
	Design responsibility (clause 4)			
4	F:T:	1		
	Carried Forward		R	
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	Brought Forward			R	
	Employer's agents (clause 5)				
5	F: V: T:	Item	1		
	The principal agent shall:- monitor and control progress and scheduling- monitor all contract conditions, and- coordinate the efforts of the employer's agents, the contractor and subcontractorsThe powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse				
	and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process				
6	Site representative (clause 6) F:	Item	1		
7	Compliance with regulations (clause 7) F:T:	Item	1		
8	Works risk (clause 8) F:T:	Item	1		
	Carried Forward			R	

	Brought Forward		R	
9	Indemnities (clause 9) F:	1		
J	Works insurances (clause 10)			
10	F: T: Item	1		
11	Liability insurances (clause 11) F:	1		
	Effecting insurance (clause 12)	1		
	F: T: Item	1		
	NO CLAUSE N/A			
	Security (clause 14) F:	1		
	Execution (A15-A23)			
15	Preparation for and execution of the works (clause 15) F:	1		
16	Access to the works (clause 16) F:	1		
	Contract instructions (clause 17)			
17	F: V:	1		
	Carried Forward		R	

	Brought Forward		R	
18	Setting out of the works (clause 18) F:T:	Item 1		
	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			
10	Assignment (clause 19)			
19	F:T:T:	Item 1		
	The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer			
	Nominated subcontractors (clause 20)			
20	F: V: T:	Item 1		
	Selected subcontractors (clause 21)			
21	F: T: T:	Item 1		
	Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors			
	Employer's Direct Contractors (clause 22)			
22	F:T:T:	Item 1		
	Contractor's Domestic Sub-Contractors (Clause 23)			
23	F: V: T: T:	Item 1		
	Carried Forward		R	

	Brought Forward			R	
	Completion (A24-A30)				
	Practical completion (clause 24)				
24	F: T:	Item	1		
	Works completion (clause 25)				
25	F: V: T: T:	Item	1		
	Final completion (clause 26)				
26	F: V: T: T:	Item	1		
	Latent defects liability period (clause 27)				
27	F: V: T: T:	Item	1		
20	Sectional completion (clause 28)				
28	F: V: T: T:	Item	1		
	Revision of date of practical completion (clause 29)				
29	F: V: T: T:	Item	1		
	that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3) Penalty for non-completion (clause 30)				
30	F: T:	Item	1		
	Carried Forward			R	

	Brought Forward			R	
	Payment (A31 - A35)				
	Interim payment to the contractor (clause 31)				
31	F: V: T: T:	Item	1		
	Adjustment to the contract value (clause 32)				
32	F: V: T:	Item	1		
	Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing				
	Recovery of expense and loss (clause 33)				
33	F:T:T:	Item	1		
	Final account and final payment (clause 34)				
34	F: V: T:	Item	1		
	The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion				
	The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account				
	Carried Forward			R	
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	Brought Forward			R	
35	Payment to other parties (clause 35) F:T:	Item	1		
36	Cancellation by employer - contractor's default (clause 36) F:T:	Item	1		
37	Cancellation by employer - loss and damage (clause 37) F:T:	Item	1		
38	Cancellation by contractor - employer's default (clause 38) F:T:	Item	1		
39	Cancellation - cessation of the works (clause 39) F:T:	Item	1		
	Dispute (A40)				
40	Dispute Settlement (clause 40) F:T:	Item	1		
	Substitute Provisions (A41) State clauses (Clause 41)				
41	F: V: T: T:	Item	1		
	Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder				
	<u> </u>			_	
	Carried Forward			R	

	Brought Forward		R	
	THE SCHEDULE			
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
	Pre-tender information (clause 42)			
42	F:T:	1		
	42.1 EONTRACTING AND OTHER PARTIES			
	42.1.1 Employer: As per infomation on the tender data			
	42.1.2 ₱rincipal Agent: As per the infomation on the Tender data			
	42.1.3 Architect: Afro Architectural			
	42.1.4Quantity Surveyor:			
	Structural :			
	42.1.5 Civil:			
	42.1.6 Electrical Engineer:			
	42.1.6 Mechanical Engineer:			
	Carried Forward			
	Carried Forward		R	

Brought Forward	R	
42.2 CONTRACT DETAILS		
42.2.1 Works Description: Construction of sanitation facilities		
42.2.2 Site Description: as per the infomation on the tender data		
42.2.3 Work or installations by direct contractors: N/A		
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only Yes		
42.2.5 Date on which possession of the site is intended to be given:		
UNKNOWN		
42.2.6 Period for the commencement of the works after the contractor takes posse		
42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day 3 months after contractual commencement date Date Penalty Amount The penalty per calender day shall be 0.05% of the tenderd amount (inclusive of value added tax)		
Carried Forward	R	

Brought Forward	R	
42.2.8 For the works in sections: Intended date of practical completion and the penalty per calender day Section 1.N/A		
42.2.9 The law applicable to this agreement shall be that of South Africa (country)		
42.3 ENSURANCES		
42.3.1 Contract works insurance to be effected by:Contractor: For the Sum of R Contract Amount 20.00 % With a deductible of - to be determined by the contractor		
42.3.2 Supplementary insurance is required No		
42.3.3 Public liability insurance to be effected by:Contractor: For the Sum of R 2 500 000-00With a deductible of - to be determined by the contractor		
42.4 DOCUMENTS		
42.4.1 Waivers of contractors lien or right of continuing possession is required \(\mathbb{T} es		
42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of		
Carried Forward		
Carried Forward	R	

	Brought Forward			R	
	42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: â\sum tandard System of Measurin Builders\hat{a}\subseteq Vork\hat{a}\subseteq				
	42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days. The priced bills of quantities must be handed in with the tender				
	42.4.5 JBCC Engineering General Conditions are to be included in the contract documents: No				
	42.4.6 The contract value is to be adjusted using escalation adjustment indices Yes Where JBCC CPAP is to be used Base Month July 2010				
	42.4.7 Details of changes made to the provision of JBCC standard documentation:				
	SECTION B: PRELIMINARIES				
	Definitions and interpretation (B1)				
	Definition and interpretation (B1.1 - B1.4.6)				
43		Item	1		
	Documents (B2)				
	Checking of documents (B2.1)				
44		Item	1		
	Descriptional hills of exceptition (D2.2)				
45	Provisional bills of quantities (B2.2) F:	N/A			
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	Carried Forward			R	

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	Availability of construction documentation (B2.3)				
46	F: V: T: T:	Item	1		
	Interests of agents (B2.4)				
47	F: T: T:	ltem	1		
48	Priced documents (B2.5) F:T:	ltem	1		
.0		item	_		
49	Tender submission (B2.6) F:T:	Item	1		
	Defined works area (B3.1)				
50	F: T: T:	ltem	1		
	The site (B3)				
-4	Geotechnical investigation (B3.2)				
51	F: T: T:	ltem	1		
52	Inspection of the site (B3.3) F:T:	ltem	1		
	Existing premises occupied (B3.4)				
	F: V: T: T:				
	Previous work - dimensional accuracy (B3.5)				
	F: T: T:				
	Previous work - defects (B3.6) F:T:				
	Carried Fo	orward		R	

	Brought Forv	vard		R	
	Services - known (B3.7)				
	F: T: T:	Item	1		
	Services - unknown (B3.8)				
54	F: T: T:	Item	1		
	Protection of trees etc (B3.9)				
55	F: T: T:	Item	1		
	Articles of value (B3.10)				
	F: T: T:	Item	1		
	Management of contract (B4)				
	Inspection of adjoining properties etc (B3.11)	ll a sa	4		
	F: T: T:	Item	1		
	Management of the works (B4.1)				
58	F: T:	Item	1		
	Programme for the works (B4.2)				
59	F: T: T:	Item	1		
	Progress meetings (B4.3)				
60	F: T: T:	Item	1		
	Carried Forv	vard		R	

	Brought Fo	rward		R	
	Technical meetings (B4.4)				
61	F: V: T:	Item	1		
	Labour and Plant records (B4.5)				
62	F: V: T: T:	Item	1		
	Samples, Shop Drawings and Manufacturer's Instructions (B5	5)			
	Samples of materials (B5.1)				
63	F: V: T: T:	Item	1		
	Workmanship samples (B5.2)				
64	F: V: T: T:	Item	1		
65	Shop drawings (B5.3) F:T:T:	ltam	1		
03		Item	1		
66	Compliance with Manufacturer's Instructions (B5.4) F:T:	ltem	1		
	Temporary works and plant (B6)				
67	Deposits and fees (B6.1) F:T:	ltem	1		
0,		item			
68	Enclosure of the works (B6.2) F:T:	Item	1		
	Advertising (B6.3)				
69	F: V: T:	Item	1		
	Carried Fo	rward		R	

Brought Forward		R	
Plant, equipment, sheds and offices (B6.4) F:T:	em 1		
Main notice board (B6.5) F:T:	em 1		
Subcontractors' notice board (B6.6) F:T:	'A		
Temporary services (B7)			
Location (B7.1) F:T:T:	1		
	em 1		
Water (B7.2) Option [A] shall apply F: V:	em 1		
Electricity (B7.3) Option [A] shall apply			
F:T:	em 1		
Telecommunication facilities (B7.4) F:T:	em 1		
Ablution facilities (B7.5) Option [A] shall apply			
F: T: Tite	em 1		
Prime cost amounts (B8)			
Responsibility for prime cost amounts (B8.1) F:T:	em 1		
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Carried Forward		R	

	Brought F	orward		R	
	Attendance on N/S Subcontractors (B9)				
	General attendance (B9.1)				
79	F: T:	Item	1		
	Special attendance (B9.2)				
80	F: T: T:	Item	1		
81	Commissioning - Fuel, water and power (B9.3) F: T:	ltem	1		
	Financial aspects (B10)				
	Statutory taxes, duties and levies (B10.1)				
	F: T:	Item	1		
	Payment of preliminaries (B10.2) Option [B] shall apply F: T:	ltem	1		
		item			
	Adjustment of preliminaries (B10.3) Option [A] shall apply F: T:	ltem	1		
	Payment certificate cash flow (B10.4)				
84	F: T:	Item	1		
	General (B11)				
	Protection of works (B11.1)				
85	F: V: T: T:	ltem	1		
	Carried F	orward		R	

	Brought Forwa	rd		R	
	Protection/isolation of existing/sectionally occupied works (B11.2)				
86	F: T:	Item	1		
	Security of the Works (B11.3)				
87	F: T: T:	Item	1		
22	Notice before covering work (B11.4) F: T:	Item	1		
89	Disturbance (B11.5) F:T:	Item	1		
	Environmental Disturbance (B11.6)				
90	F: V: T:	Item	1		
	Works cleaning and clearing (B11.7)				
91	F: V: T: T:	Item	1		
00	Vermin (B11.8) F:T:		4		
92	F: 1:	Item	1		
93	Overhand work (B11.9) F:T:	Item	1		
	Instruction manuals and guarantees (B11.10)				
	F: V: T: T:	Item	1		
	As built information (B11.11)				
95	F: T:	Item	1		
	Tenant Installations (B11.12)				
96	F: T: T:	Item	1		
	Carried Forwa	rd		R	

	Brought Forward		R	
	Schedule of variables (B12)			
97	Pre-tender information (B12.1) F:	m 1		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			
	12.1.2 Availability of construction documentation (B2.3) ©onstruction documentation is not complete No			
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	12.1.5 Geotechnical investigation (B3.2) N/A			
	12.1.6 ■xisting premises occupied (B3.4)			
	12.1.7 Previous work - dimensional accuracy (B3.4)			
	12.1.8 Previous work - defects (B3.5)			
	12.1.9 \(\text{Services} - known (B3.7)			
	12.1.10 Protection of trees (B3.9) All trees should be protected and only on instruction of the Principal Agent may any trees be removed			
	12.1.12 Enclosure of the works (B6.2)			
	Carried Forward		R	

Brought Forward	R	
12.1.11 Inspection of adjoining properties (B3.11)		
12.1.13 Offices (B6.4.3) An office for the clerck of works should be provided		
12.1.14Main notice board (B6.5) YES		
12.1.15 Subcontractors notice board (B6.6) A notice board is required No		
12.1.16 Water (B7.2) Alternative Selected: A		
12.1.17Electricity (B7.3) Alternative selected: A		
12.1.18Telecommunications (B7.4)		
12.1.19Ablution facilities (B7.5) Alternative selected: A		
12.1.20 Protection of existing/sectionally occupied works (B11.2)		
12.1.21 Special attendance (B9.2) Subcontractor (1) details: N/A		
12.1.22₱rotection of the works (B11.1) Ŋ/A		
12.1.23Disturbance (B11.5) N/A		
Carried Forward	R	

	Brought Forward			R	
	12.1.24 E nvironmental Disturbance (B11.6) N /A				
	Post tender information (B12.2)				
	12.2.1 ■ayment of preliminaries Alternative selected: B				
	12.2.2 Adjustment of preliminaries Alternative selected: A				
	12.2.3 Additional agreed preliminaries items N/A				
	SECTION C: SPECIFIC PRELIMINARIES				
	Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included				
	Site instructions Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor				
98	F: V: T: T:	Item	1		
99	Black economic empowerment and training F:T:	Item	1		
	Proprietary branded products				
100	F: V: T: T:	Item	1		
	Carried Forward			R	

	Brought Forward			R	
101	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:	Itam	1		
101	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item	1		
	Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor Labour record	Item	1		
103	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item	1		
104	Plant record F:		1		
	Carried Forward			R	

	Brought Forward		R	
105	Guarantees F:T:	Item 2	ı	
	Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement			
106	Overtime F:		ı	
107	Co-operation of contractor for cost management F:T:	Item :	ı	
	Carried Forward		R	

	Brought Forward		R	
	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors			
108	Occupational Health and Safety Specification F:T:	Item 1		
	Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occopational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained SUMMARY OF CATEGORIES			
	Category : Fixed			
	Category : Value			
	Carried to Final Summary		R	

BUILDING WORKS - M2

ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	SECTION 1				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m²	65		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m²	65		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m³	7		
4	Pit	m³	14		
5	For aprons thickenning	m³	2		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m³	1		
7	Hard rock	m³	1		
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	m³	18		
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m²	36		
	Carried Forward			R	

	Brought Forward			R	
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water	Item	1		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc.	m³	8		
12	Backfilling to trenches, holes, etc.	m³	7		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		25		
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		4		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	23		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	4		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	25		
18	To bottom of concrate aprons	m²	13		
19	To bottoms and sides of trenches, etc.	m²	20		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	UNREINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
1	Strip footings	m³	2		
2	Ditto, but surface bed in pit	m³	1		
3	2Aprons cast in panels	m³	2		
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	10		
5	Thickening down apron on edge 110mm deep x 200mm wide	m	7		
	REINFORCED CONCRETE, ETC				
	25Mpa/19mm Concrete				
6	Slabs	m³	2		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
7	Aprons and pavings to falls	m²	23		
	TEST CUBES				
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	3		
	Finishing top surfaces of concrete smooth with a steel trowel				
9	Suface beds, slabs, etc.	m²	23		
	Carried Forward			R	

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	Brought Forward			R	
	<u>FORMWORK</u>				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	19		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m²	6		
12	Leave or form 500mm diameter opening in top of floor slab	No	2		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett)				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m²	23		
	Carried Forward to Summary of Section No.2			R	

BILL NO.4 BRICKWORK SUPPLEMENTARY PREAMBLES For preambles see "Specifications of materials and methods to be used - PW 371" **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. User note: The above preamble generally applies for works in hot and humid coastal areas 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

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Carried Forward

	Brought Forward			R	
	<u>SAMPLES</u>				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	<u>FOUNDATIONS</u>				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m²	8		
2	One brick walls in pit	m²	14		
3	4Half brick corbelling in pit	m	11		
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m²	3		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m²	9		
6	One brickwork for face brick walls pointed both sides	m²	42		
7	Extra over brickwork for face brickwork in beamfilling	m²	3		
8	Fair raking and cutting	m	11		
	Carried Forward			R	

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks				
	(purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	5		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	66		
13	150mm Wide reinforcement built in horizontally	m	275		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	2		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	12		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	6		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.5				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m²	4		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m²	30		
	FLOOR AND WALLS SEALERS				
	Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	11		
	Cowled Femurald to Commence of Continue No. 2			5	
	Carried Forward to Summary of Section No.2			R	

	BILL NO.6				
	ROOF COVERINGS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)				
1	Allow the Provisional Amount of R7 000.00 (Seven Thousand Rand) for supply and installation of roof sheeting	Item	1		
	Sundries				
2	12" Thermal resistance sisalition laid on purlins	m²	22		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	7		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	2		
6	Extra over rainwater pipe for eaves offset	No	2		
7	Ditto ,for shoe	No	2		
	Carried Forward to Summary of Section No.2			R	
	Carried Forward to Summary of Section No.2			"	

	BILL NO.7			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ROOFS, ETC.			
	The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood			
1	Allow the Provisional Amount of R5 000.00 (Five Thousand Rand) for supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall			
		Item	1	
	Sundries			
2	Two coats creosote on sawn timbers	m²	23	
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	10	
4	Hurricane clips	No	18	
	EAVES, VERGES, ETC.			
	Pressed fibre-cement			
5	$15\ x\ 230$ mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	18	
	DOORS, ETC.			
	Wrought meranti doors hung to steel frames			
6	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1	
	and meldanis weather board (D1)	.10	1	
	Carried Forward			R

Brought Forward		R	
44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	2		
Carried Forward to Summary of Section No.2		R	

	BILL NO.8				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CATCHES, CABIN, HOOKS, ETC				
	Approved				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
	LOCKS				
	<u>Approved</u>				
2	Four lever mortice lockset	No	1		
3	Indicator lockset	No	2		
	DOORSTOPS				
	<u>Approved</u>				
4	38mm Diameter rubber door stop plugged	No	3		
	LETTERS, NAMEPLATES, ETC.				
	Union or similar approved				
5	$75 \times 150 \text{mm}$ Natural anodised aluminium plate with male or female symbol	No	2		
	BATHROOM FITTINGS				
	Kimberley-Clarkor Simlilar				
6	Kimberly Clark SQ2 code 405607B white lockable toilet roll holder	No	2		
	Cowled Forward to Comment of Costing No. 2			5	
	Carried Forward to Summary of Section No.2			R	

	BILL NO.9				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls				
1	Frame for door 813 x 2032mm high	No	2		
	1,6mm Double rebated frames suitable for one brickwalls				
2	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	4		
4	Window type NE 7,1022 x 654mm high including burglar bars	No	2		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 10				
	PLASTERING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
1	30mm thick on floors	m²	23		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork				
2	On pits walls	m²	16		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m²	23		
4	On internal textured plaster walls and floors in pit	m²	19		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and install pre-cast double concrete wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000mm covered with "bidim"		1		
	Alow the provisional sum of R30 000 for complete installation of Enviroloo system	Item	1		
3	Profit and attendance on above item	Item	1		
	URINAL AND EVAPORATIVE TANK SYSTEM				
4	Alow the provisional sum of R25 000 for complete installation of urinal and evaporative tank system	Item	1		
5	Profit and attendance	Item	1		
	<u>FITTINGS</u>				
6	19mm chrome plated push button taps to wash troughs	No	2		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 12			
	<u>GLAZING</u>			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m ²	3		
	Carried Forward to Summary of Section No.2		R	

	BILL NO. 13			
	PAINTWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ON FIBRE-CEMENT			
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint			
1	On fascias and barge boards	m²	4	
	ON WOOD			
	Undercoat and minimum 2 coat gloss enamel			
2	On doors (Internal)	m²	10	
3	On doors (External)	m²	9	
	ON METAL			
	Undercoat and minimum 2 coat gloss enamel			
4	On door frames	m²	6	
5	On gates (Measured over the full flat area of both sides)	m²	11	
6	On gutters and down pipes	m	9	
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel			
7	On windows with burglar bars	m²	5	
	Carried Forward to Summary of Section No.2			R
	Carried Forward to Summary of Section No.2			, n

	SUMMARY (BUILDING WORKS - M2)		
1	EARTHWORKS	Page	
2	CONCRETE,FORMWORK AND REINFORCEMENT	Page	
3	MASONRY	Page	
4	WATERPROOFING	Page	
5	ROOF COVERINGS	Page	
6	CARPENTRY AND JOINERY	Page	
7	IRONMONGERY	Page	
8	METALWORK	Page	
9	IN SITU FINISHES	Page	
10	PLUMBING AND DRAINAGE	Page	
11	GLAZING	Page	
12	PAINTWORK	Page	
	Carried to Final Summary		R

BUILDING WORKS - M6

ITEM NO	DESCRIPTION	QU	ANTITY	RATE	AMOUNT
	SECTION 1				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	n²	102		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	n²	102		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches n	n³	9		
4	Pit n	n³	30		
5	For aprons thickenning n	n³	2		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock n	n³	4		
7	Hard rock n	n³	2		
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	n³	32		
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep. n	n²	56		
	Carried Forward			R	

	Brought Forward			R	
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water	Item	1		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc.	m³	3		
12	Backfilling to trenches, holes, etc.	m³	5		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	31		
14	Compaction of ground surface to pits 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	10		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	33		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	4		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	33		
18	To bottom of concrate aprons	m²	23		
19	To bottoms and sides of trenches, etc.	m²	22		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.3		
	CONCRETE, FORMWORK AND REINFORCEMENT		
	SUPPLEMENTARY PREAMBLES		
	For preambles see "Specifications of materials and methods to be used - PW 371"		
	UNREINFORCED CONCRETE, ETC		
	25Mpa/19mm Concrete		
1	Strip footings	m³	5
2	Ditto, but surface bed in pit	m³	30
3	2Aprons cast in panels	m³	4
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	15
5	Thickening down apron on edge 110mm deep x 200mm wide	m	15
	REINFORCED CONCRETE, ETC		
	25Mpa/19mm Concrete		
6	Slabs	m³	3
	CONCRETE SUNDRIES		
	Finishing top surfaces of concrete smooth with a wood float		
7	Aprons and pavings to falls	m²	22
	TEST CUBES		
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.		4
	Finishing top surfaces of concrete smooth with a steel trowel		
9	Suface beds, slabs, etc.	m²	33
	Carried Forward		

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	Brought Forward			R	
	<u>FORMWORK</u>				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	37		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m²	16		
12	Leave or form 500mm diameter opening in top of floor slab	No	6		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett)				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m²	33		
	Carried Forward to Summary of Section No.2			R	

BILL NO.4 BRICKWORK SUPPLEMENTARY PREAMBLES For preambles see "Specifications of materials and methods to be used - PW 371" **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. User note: The above preamble generally applies for works in hot and humid coastal areas 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

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Carried Forward

	Brought Forward SAMPLES			R	
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	<u>FOUNDATIONS</u>				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m²	10		
2	One brick walls in pit	m²	19		
3	4Half brick corbelling in pit	m	8		
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m²	4		
	<u>SUPERSTRUCTURE</u>				
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m²	32		
6	One brickwork for face brick walls pointed both sides	m²	68		
7	Extra over brickwork for face brickwork in beamfilling	m²	5		
8	Fair raking and cutting	m	11		
	Carried Forward			R	

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	16		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	13		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	6		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	181		
13	150mm Wide reinforcement built in horizontally	m	433		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	7		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	20		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	10		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	12		
	Carried Forward to Summary of Section No.2			R	
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	BILL NO.5				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m²	6		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m²	33		
	FLOOR AND WALLS SEALERS				
	Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	11		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.6			
	ROOF COVERINGS			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	PROFILED METAL SHEETING AND ACCESSORIES			
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)			
1	Allow the Provisional Amount of R10 500.00 (Ten Thousand Five Hundred Rand) for supply and installation of roof sheeting	Item	1	
	Sundries			
2	12" Thermal resistance sisalition laid on purlins	m²	35	
	RAINWATER DISPOSAL			
	Aluzink seamless metal gutters:			
3	$100 \times 100 \times 0.6$ mm Standard rainwater gutters fixed with gutters brackets	m	10	
4	Extra over for closed ends	No	2	
5	$75 \times 100 \times 0.6$ mm Thick galvanised rainwater downpipes fixed to wall	m	6	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	2	
	Carried Forward to Summary of Section No.2			F

	BILL NO.7				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood				
1	Allow the Provisional Amount of R8 000.00 (Eight Thousand Rand) for supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc.		1		
	<u>Sundries</u>				
2	Two coats creosote on sawn timbers	m²	40		
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	15		
4	Hurricane clips	No	24		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement				
5	$15 \times 230 \text{mm}$ Fascias and barge boards including galvanised steel H-profile jointing strips	m	27		
	DOORS, ETC.				
	Wrought meranti doors hung to steel frames				
6	44mm Framed batten door 813×2032 mm high of 44×150 mm top rail and stiles, 22×150 mm middle ledge and braces and 22×220 mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)		1		
	Carried Forward			R	

	Brought Forward		R	
7	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door			
	raised by 120mm from bottom) (D2)	No 6		
	Carried Forward to Summary of Section No.2		R	

	BILL NO.8				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CATCHES, CABIN, HOOKS, ETC				
	Approved				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
	LOCKS				
	<u>Approved</u>				
2	Four lever mortice lockset	No	1		
3	Indicator lockset	No	6		
	<u>DOORSTOPS</u>				
	<u>Approved</u>				
4	38mm Diameter rubber door stop plugged	No	7		
	LETTERS, NAMEPLATES, ETC.				
	Union or similar approved				
5	$75 \times 150 \text{mm}$ Natural anodised aluminium plate with male or female symbol	No	1		
	BATHROOM FITTINGS				
	Kimberley-Clarkor Simlilar				
6	Kimberly Clark SQ2 code 405607B white lockable toilet roll holder	No	6		
	Carried Forward to Summary of Section No.2			R	
	Carrieu Forward to Summary of Section No.2			K	

	BILL NO.9				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls				
1	Frame for door 813 x 2032mm high	No	6		
	1,6mm Double rebated frames suitable for one brickwalls				
2	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	8		
4	Window type NE 7,1022 x 654mm high including burglar bars	No	4		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1		
	Carried Forward to Summary of Section No.2			R	
	Carrica i orwara to Julilliary of Jection No.2		I	l '\	

	BILL NO. 10			
	PLASTERING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	CEMENT SCREEDS TO CONCRETE			
	Screeds to steel trowelled, on concrete:			
1	30mm thick on floors m ²	33		
	INTERNAL PLASTER			
	Cement plaster on brickwork or blockwork			
2	On pits walls m²	19		
	FLOOR AND WALLS SEALERS			
	Minimum two coats approved epoxy coat:			
3	On screed m ²	33		
4	On internal textured plaster walls and floors in pit m ²	33		
	Carried Forward to Summary of Section No.2		R	
	Carned Forward to Summary of Section No.2	1	l K	

	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and install pre-cast double concrete wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000mm covered with "bidim"	No	2		
2	Alow the provisional sum of R80 000 for complete installation of Enviroloo system	Item	1		
3	Profit and attendance on above item	Item	1		
	URINAL AND EVAPORATIVE TANK SYSTEM				
4	Alow the provisional sum of R25 000 for complete installation of urinal and evaporative tank system	Item	1		
5	Profit and attendance	Item	1		
	<u>FITTINGS</u>				
6	19mm chrome plated push button taps to wash troughs	No	4		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 12			
	<u>GLAZING</u>			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m ²	5		
	Carried Forward to Summary of Section No.2		R	
	Carried Forward to Summary of Section 140.2		l v	

	BILL NO. 13			
	PAINTWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ON FIBRE-CEMENT			
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint			
1	On fascias and barge boards	m²	7	
	ON WOOD			
	Undercoat and minimum 2 coat gloss enamel			
2	On doors (Internal)	m²	20	
3	On doors (External)	m²	3	
	ON METAL			
	Undercoat and minimum 2 coat gloss enamel			
4	On door frames	m²	4	
5	On gates (Measured over the full flat area of both sides)	m²	3	
6	On gutters and down pipes	m	10	
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel			
7	On windows with burglar bars	m²	11	
	Carried Forward to Summary of Section No.2			R

	SUMMARY (BUILDING WORKS - M6)		
1	EARTHWORKS	Page	
2	CONCRETE, FORMWORK AND REINFORCEMENT	Page	
3	MASONRY	Page	
4	WATERPROOFING	Page	
5	ROOF COVERINGS	Page	
6	CARPENTRY AND JOINERY	Page	
7	IRONMONGERY	Page	
8	METALWORK	Page	
9	IN SITU FINISHES	Page	
10	PLUMBING AND DRAINAGE	Page	
11	GLAZING	Page	
12	PAINTWORK	Page	
	Carried to Final Summary		R

BUILDING WORKS - F6

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	SECTION 1			
	BILL NO.1			
	<u>EARTHWORKS</u>			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	SITE CLEARANCE			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	93		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	53		
	EXCAVATION, FILLING, ETC			
	Excavation in earth not exceeding 2m deep			
3	Trenches m ²	12		
4	Pit m ²	22		
5	For aprons thickenning m	1		
	Extra over trench and hole excavations in earth for			
	excavation:			
6	Soft rock m	2		
7	Hard rock m	3		
	Extra over all excavations for carting away:			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	23		
	Risk of collapse of excavations			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	52		
	Carried Forward		R	

	Brought Forward			R	
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water	Item	1		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc.	m³	6		
12	Backfilling to trenches, holes, etc.	m³	5		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	25		
14	Compaction of ground surface to pits 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	13		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	22		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	5		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	25		
18	To bottom of concrate aprons	m²	22		
19	To bottoms and sides of trenches, etc.	m²	66		
	Carried Forward to Summary of Section No.2			R	
	Carried Contracts Summary St School Hole	ı	ļ	,	

	BILL NO.3		
	CONCRETE, FORMWORK AND REINFORCEMENT		
	SUPPLEMENTARY PREAMBLES		
	For preambles see "Specifications of materials and methods to be used - PW 371"		
	UNREINFORCED CONCRETE, ETC		
	25Mpa/19mm Concrete		
1	Strip footings	m³	2
2	Ditto, but surface bed in pit	m³	1
3	2Aprons cast in panels	m³	1
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	13
5	Thickening down apron on edge 110mm deep x 200mm wide	m	21
	REINFORCED CONCRETE, ETC		
	25Mpa/19mm Concrete		
6	Slabs	m³	3
	CONCRETE SUNDRIES		
	Finishing top surfaces of concrete smooth with a wood float		
7	Aprons and pavings to falls	m²	11
	TEST CUBES		
8			
	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.		5
	Finishing top surfaces of concrete smooth with a steel trowel		
9	Suface beds, slabs, etc.	m²	31
	Carried Forward		

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	Brought Forward			R	
	<u>FORMWORK</u>				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	15		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m²	7		
12	Leave or form 500mm diameter opening in top of floor slab	No	10		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett)				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m²	31		
	Carried Forward to Summary of Section No.2			R	

BILL NO.4 BRICKWORK SUPPLEMENTARY PREAMBLES For preambles see "Specifications of materials and methods to be used - PW 371" **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. User note: The above preamble generally applies for works in hot and humid coastal areas 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

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Carried Forward

	Brought Forward <u>SAMPLES</u>			R	
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m²	12		
2	One brick walls in pit	m²	18		
3	4Half brick corbelling in pit	m	13		
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m²	5		
	<u>SUPERSTRUCTURE</u>				
	FACE BRICKWORK				
	<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
5	Half brickwork for face brick walls pointed both sides	m²	24		
6	One brickwork for face brick walls pointed both sides	m²	52		
7	Extra over brickwork for face brickwork in beamfilling	m²	3		
8	Fair raking and cutting	m	5		
	Carried Forward			R	

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed				
	on two sides and 110mm soffit	m	8		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	8		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	8		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	95		
13	150mm Wide reinforcement built in horizontally	m	171		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	7		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	17		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	9		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	6		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.5				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m²	4		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m²	31		
	FLOOR AND WALLS SEALERS				
	Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	25		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.6			
	ROOF COVERINGS			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	PROFILED METAL SHEETING AND ACCESSORIES			
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)			
1	Allow the Provisional Amount of R12 000.00 (Twelve Thousand Rand) for supply and installation of roof sheeting	Item	1	
	<u>Sundries</u>			
2	12" Thermal resistance sisalition laid on purlins	m²	39	
	RAINWATER DISPOSAL			
	Aluzink seamless metal gutters:			
3	$100 \times 100 \times 0.6$ mm Standard rainwater gutters fixed with gutters brackets	m	7	
4	Extra over for closed ends	No	2	
5	$75 \times 100 \times 0.6$ mm Thick galvanised rainwater downpipes fixed to wall	m	3	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	1	
	Camitad Famourudas Construction of Construction			_
	Carried Forward to Summary of Section No.2			R

	BILL NO.7				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood				
1	Allow the Provisional Amount of R9 000.00 (Nine Thousand Rand) for supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc.	Item	1		
	Sundries				
2	Two coats creosote on sawn timbers	m²	10		
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	17		
4	Hurricane clips	No	20		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement				
5	$15 \times 230 \text{mm}$ Fascias and barge boards including galvanised steel H-profile jointing strips	m	13		
	DOORS, ETC.				
	Wrought meranti doors hung to steel frames				
6	44mm Framed batten door 813×2032 mm high of 44×150 mm top rail and stiles, 22×150 mm middle ledge and braces and 22×220 mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1		
	Carried Forward			R	

	Brought Forward		R	
7	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door			
	raised by 120mm from bottom) (D2)	No 6		
	Carried Forward to Summary of Section No.2		R	

	BILL NO.8			
	IRONMONGERY			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	CATCHES, CABIN, HOOKS, ETC			
	Approved			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	
	LOCKS			
	<u>Approved</u>			
2	Four lever mortice lockset	No	1	
3	Indicator lockset	No	6	
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
4	38mm Diameter rubber door stop plugged	No	1	
	LETTERS, NAMEPLATES, ETC.			
	Union or similar approved			
5	75×150 mm Natural anodised aluminium plate with male or female symbol	No	1	
	BATHROOM FITTINGS			
	Kimberley-Clarkor Simlilar			
6	Kimberly Clark SQ2 code 405607B white lockable toilet roll holder	No	6	
	<u>Sundries</u>			
7	Female she-bin	No	6	
	Carried Forward to Summary of Section No.2			R

	BILL NO.9				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Single rebated frames suitable for half brick walls				
1	Frame for door 813 x 2032mm high	No	6		
	1,6mm Double rebated frames suitable for one brickwalls				
2	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
3	Window type NE1, 533 x 654mm high including burglar bars	No	6		
4	Window type NE 7,1022 x 654mm high including burglar bars	No	3		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1		
			_		
	Carried Forward to Summary of Section No.2			R	
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	BILL NO. 10				
	PLASTERING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
1	30mm thick on floors	m²	31		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork				
2	On pits walls	n²	31		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed r	m²	31		
4	On internal textured plaster walls and floors in pit r	m²	85		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and install pre-cast double concrete wash-trough, complete with all necessary pipework including soakaway size $1000 \times 1000 \times 1000$ mm covered with "bidim"		2		
2	Alow the provisional sum of R80 000 for complete installation of Enviroloo system	Item	1		
3	Profit and attendance on above item	Item	1		
	<u>FITTINGS</u>				
4	19mm chrome plated push button taps to wash troughs	No	4		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 12			
	<u>GLAZING</u>			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m ²	4		
	Comind Formulated Community of Continue 21: 2		_	
	Carried Forward to Summary of Section No.2		R	

	BILL NO. 13			
	PAINTWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ON FIBRE-CEMENT			
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint			
1	On fascias and barge boards	m²	24	
	ON WOOD			
	Undercoat and minimum 2 coat gloss enamel			
2	On doors (Internal)	m²	2	
3	On doors (External)	m²	19	
	ON METAL			
	Undercoat and minimum 2 coat gloss enamel			
4	On door frames	m²	7	
5	On gates (Measured over the full flat area of both sides)	m²	8	
6	On gutters and down pipes	m	15	
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel			
7	On windows with burglar bars	m²	8	
	Carried Forward to Summary of Section No.2			

	SUMMARY (BUILDING WORKS - F6)		
1	EARTHWORKS	Page	
2	CONCRETE,FORMWORK AND REINFORCEMENT	Page	
3	MASONRY	Page	
4	WATERPROOFING	Page	
5	ROOF COVERINGS	Page	
6	CARPENTRY AND JOINERY	Page	
7	IRONMONGERY	Page	
8	METALWORK	Page	
9	IN SITU FINISHES	Page	
10	PLUMBING AND DRAINAGE	Page	
11	GLAZING	Page	
12	PAINTWORK	Page	
	Carried to Final Summary		R

BUILDING WORKS - F10

M	DESCRIPTION		QUANTITY	RATE	AMOUNT
	SECTION 1				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"	!			
	SITE CLEARANCE				
	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	, m²	162		
	Stripping average 100mm thick layer of top soil and stockpiling on site	m²	162		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m³	21		
4	Pit	m³	37		
5	For aprons thickenning	m³	1		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m³	2		
7	Hard rock	m³	5		
	Extra over all excavations for carting away:				
	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	m³	38		
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m²	87		
	Carried Forward			R	

	Brought Forward			R	
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water	Item	1		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc.	m³	11		
12	Backfilling to trenches, holes, etc.	m³	8		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	41		
14	Compaction of ground surface to pits 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		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	36		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	5		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	41		
18	To bottom of concrate aprons	m²	36		
19	To bottoms and sides of trenches, etc.	m²	112		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.3			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	UNREINFORCED CONCRETE, ETC			
	25Mpa/19mm Concrete			
1	Strip footings	m³	7	
2	Ditto, but surface bed in pit	m³	2	
3	2Aprons cast in panels	m³	3	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	22	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	36	
	REINFORCED CONCRETE, ETC			
	25Mpa/19mm Concrete			
6	Slabs	m³	5	
	CONCRETE SUNDRIES			
	Finishing top surfaces of concrete smooth with a wood float			
7	Aprons and pavings to falls	m²	28	
	TEST CUBES			
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5	
	Finishing top surfaces of concrete smooth with a steel trowel			
9	Suface beds, slabs, etc.	m²	53	
	Carried Forward			R

	Brought Forward			R	
	FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m²	20		
12	Leave or form 500mm diameter opening in top of floor slab	No	10		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett)				
	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m²	53		
	Carried Forward to Summary of Section No.2			R	

BILL NO.4

BRICKWORK

SUPPLEMENTARY PREAMBLES

For preambles see "Specifications of materials and methods to be used - PW 371"

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.

User note: The above preamble generally applies for works in hot and humid coastal areas

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 Forward

	Brought Forward <u>SAMPLES</u>			R	
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m²	11		
2	One brick walls in pit	m²	22		
3	4Half brick corbelling in pit	m	21		
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m²	12		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m²	40		
6	One brickwork for face brick walls pointed both sides	m²	124		
7	Extra over brickwork for face brickwork in beamfilling	m²	5		
8	Fair raking and cutting	m	8		
	Carried Forward			R	

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	14		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	14		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	14		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	158		
13	150mm Wide reinforcement built in horizontally	m	285		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	11		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	28		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	15		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	6		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.5				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	in walls	m²	6		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m²	53		
	FLOOR AND WALLS SEALERS				
	Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	41		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.6				
	ROOF COVERINGS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)				
1	Allow the Provisional Amount of R18 000.00 (Eighteen Thousand Rand) for supply and installation of roof sheeting	Item	1		
	<u>Sundries</u>				
2	12" Thermal resistance sisalition laid on purlins	m²	60		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	$100 \times 100 \times 0.6$ mm Standard rainwater gutters fixed with gutters brackets	m	10		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5		
6	Extra over rainwater pipe for eaves offset	No	2		
7	Ditto ,for shoe	No	2		
				_	
	Carried Forward to Summary of Section No.2			R	

	BILL NO.7			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ROOFS, ETC.			
	The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood			
1	Allow the Provisional Amount of R14 000.00 (Fourteen Thousand Rand) for supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc.		1	
	<u>Sundries</u>			
2	Two coats creosote on sawn timbers	m²	17	
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	28	
4	Hurricane clips	No	15	
	EAVES, VERGES, ETC.			
	Pressed fibre-cement			
5	$15 \times 230 \text{mm}$ Fascias and barge boards including galvanised steel H-profile jointing strips	m	30	
	DOORS, ETC.			
	Wrought meranti doors hung to steel frames			
6	44mm Framed batten door 813×2032 mm high of 44×150 mm top rail and stiles, 22×150 mm middle ledge and braces and 22×220 mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)		2	
7	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)		10	
	Carried Forward to Summary of Section No.2			R

	BILL NO.8			
	IRONMONGERY			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	CATCHES, CABIN, HOOKS, ETC			
	Approved			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	LOCKS			
	Approved			
2	Four lever mortice lockset	No	2	
3	Indicator lockset	No	10	
	DOORSTOPS			
	<u>Approved</u>			
4	38mm Diameter rubber door stop plugged	No	2	
	LETTERS, NAMEPLATES, ETC.			
	Union or similar approved			
5	$75 \times 150 \text{mm}$ Natural anodised aluminium plate with male or female symbol	No	2	
	BATHROOM FITTINGS			
	Kimberley-Clarkor Simlilar			
6	Kimberly Clark SQ2 code 405607B white lockable toilet roll holder	No	10	
	Sundries			
7	Female she-bin	No	10	
	Carried Forward to Summary of Section No.2			

	BILL NO.9			
1	METALWORK			
	SUPPLEMENTARY PREAMBLES			
- 1	For preambles see "Specifications of materials and methods to be used - PW 371"	2		
ļ	PRESSED STEEL DOOR FRAMES			
	1,2mm Single rebated frames suitable for half brick walls			
1	Frame for door 813 x 2032mm high	No	10	
-	1,6mm Double rebated frames suitable for one brickwalls			
2	Frame for door 813 x 2032mm high	No	1	
1	STEEL WINDOWS, DOORS, ETC			
3	Window type NE1, 533 x 654mm high including burglar bars	No	10	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	4	
	WELDED SCREENS, GATES, ETC			
1	Steel gates and frames			
	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	e No	1	
	Carried Forward to Summary of Section No.2	,		

	BILL NO. 10			
	PLASTERING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	CEMENT SCREEDS TO CONCRETE			
	Screeds to steel trowelled, on concrete:			
1	30mm thick on floors m ²	51		
	INTERNAL PLASTER			
	Cement plaster on brickwork or blockwork			
2	On pits walls m ²	122		
	FLOOR AND WALLS SEALERS			
	Minimum two coats approved epoxy coat:			
3	On screed m ²	51		
4	On internal textured plaster walls and floors in pit m ²	142		
	Carried Forward to Summary of Section No.2		R	

	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and install pre-cast double concrete wash-trough, complete with all necessary pipework including soakaway size $1000 \times 1000 \times 1000$ mm covered with "bidim"	No	2		
2	Alow the provisional sum of R130 000 for complete installation of Enviroloo system	Item	1		
3	Profit and attendance on above item	Item	1		
	<u>FITTINGS</u>				
4	19mm chrome plated push button taps to wash troughs	No	4		
	Carried Forward to Summary of Section No.2			R	

BILL NO. 12				
<u>GLAZING</u>				
SUPPLEMENTARY PREAMBLES				
For preambles see "Specifications of materials and methods to be used - PW 371"				
GLAZING TO STEEL WITH PUTTY				
6.38mm Obscure safety glass				
Panes not exceeding 0,1 m2	m²	3		
Carried Forward to Summary of Section No.2			R	

	BILL NO. 13			
	PAINTWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ON FIBRE-CEMENT			
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint			
1	On fascias and barge boards	m²	30	
	ON WOOD			
	Undercoat and minimum 2 coat gloss enamel			
2	On doors (Internal)	m²	4	
3	On doors (External)	m²	32	
	ON METAL			
	Undercoat and minimum 2 coat gloss enamel			
4	On door frames	m²	13	
5	On gates (Measured over the full flat area of both sides)	m²	14	
6	On gutters and down pipes	m	25	
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel			
7	On windows with burglar bars	m²	14	
	Carried Forward to Summary of Section No.2			R

	SUMMARY (BUILDING WORKS - F10)		
1	EARTHWORKS	Page	
2	CONCRETE,FORMWORK AND REINFORCEMENT	Page	
3	MASONRY	Page	
4	WATERPROOFING	Page	
5	ROOF COVERINGS	Page	
6	CARPENTRY AND JOINERY	Page	
7	IRONMONGERY	Page	
8	METALWORK	Page	
9	IN SITU FINISHES	Page	
10	PLUMBING AND DRAINAGE	Page	
11	GLAZING	Page	
12	PAINTWORK	Page	
	Carried to Final Summary		

BUILDING WORKS - GR3

М	DESCRIPTION		QUANTITY	RATE	AMOUNT
	SECTION 1				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"	!			
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	, m²	75		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m²	31		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m³	5		
4	Pit	m³	14		
5	For aprons thickenning	m³	8		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m³	1		
7	Hard rock	m³	2		
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	ı m³	16		
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m²	38		
	Carried Forward	1		R	

	Brought Forward			R	
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water	Item	1		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc.	m³	2		
12	Backfilling to trenches, holes, etc.	m³	8		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	8		
14	Compaction of ground surface to pits 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	9		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	15		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	3		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	8		
18	To bottom of concrate aprons	m²	15		
19	To bottoms and sides of trenches, etc.	m²	28		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.3			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	UNREINFORCED CONCRETE, ETC			
	25Mpa/19mm Concrete			
1	Strip footings	m³	2	
2	Ditto, but surface bed in pit	m³	1	
3	2Aprons cast in panels	m³	1	
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	1	
5	Thickening down apron on edge 110mm deep x 200mm wide	m	1	
	REINFORCED CONCRETE, ETC			
	25Mpa/19mm Concrete			
6	Slabs	m³	2	
	CONCRETE SUNDRIES			
	Finishing top surfaces of concrete smooth with a wood float			
7	Aprons and pavings to falls	m²	15	
	TEST CUBES			
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.		3	
	Finishing top surfaces of concrete smooth with a steel trowel			
9	Suface beds, slabs, etc.	m²	17	
	Carried Forward			

	Brought Forward			R	
	FORMWORK				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	15		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m²	7		
12	Leave or form 500mm diameter opening in top of floor slab	No	3		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett)				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m²	17		
	acus .		17		
	Carried Forward to Summary of Section No.2			R	

BILL NO.4 BRICKWORK SUPPLEMENTARY PREAMBLES For preambles see "Specification"

For preambles see "Specifications of materials and methods to be used - PW 371"

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.

User note: The above preamble generally applies for works in hot and humid coastal areas

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 Forward

	Brought Forward <u>SAMPLES</u>			R	
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m²	7		
2	One brick walls in pit	m²	21		
3	4Half brick corbelling in pit	m	20		
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m²	4		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
5	Half brickwork for face brick walls pointed both sides	m²	2		
6	One brickwork for face brick walls pointed both sides	m²	44		
7	Extra over brickwork for face brickwork in beamfilling	m²	2		
8	Fair raking and cutting	m	11		
	Carried Forward			R	

	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	3		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	3		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	43		
13	150mm Wide reinforcement built in horizontally	m	97		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	5		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	10		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	7		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	4		
	Carried Forward to Summary of Section No.2			R	

BILL NO.5			
WATERPROOFING			
SUPPLEMENTARY PREAMBLES			
For preambles see "Specifications of materials and methods to be used - PW 371"	!		
DAMP-PROOFING OF WALLS AND FLOORS			
One layer 375mm micron embossed damp proof course			
1 In walls	m²	3	
One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape	:		
2 Under surface beds	m²	10	
FLOOR AND WALLS SEALERS			
Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:			
3 Around steel windows and door frames.	m	7	
Carried Forward to Summary of Section No.2			R

	BILL NO.6			
	ROOF COVERINGS			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	PROFILED METAL SHEETING AND ACCESSORIES			
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)			
1	Allow the Provisional Amount of R5 000.00 (Five Thousand Rand) for supply and installation of roof sheeting	Item	1	
	Sundries			
2	12" Thermal resistance sisalition laid on purlins	m²	17	
	RAINWATER DISPOSAL			
	Aluzink seamless metal gutters:			
3	$100 \times 100 \times 0.6 mm$ Standard rainwater gutters fixed with gutters brackets	m	4	
4	Extra over for closed ends	No	2	
5	$75 \times 100 \times 0.6$ mm Thick galvanised rainwater downpipes fixed to wall	m	3	
6	Extra over rainwater pipe for eaves offset	No	2	
7	Ditto ,for shoe	No	1	
	Carried Forward to Summary of Section No.2			F

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	BILL NO.7				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood				
1	Allow the Provisional Amount of R4 000.00 (Four Thousand Rand) for supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc.	ltem	1		
	<u>Sundries</u>				
2	Two coats creosote on sawn timbers	m²	20		
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	10		
4	Hurricane clips	No	24		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement				
5	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	19		
	DOORS, ETC.				
	Wrought meranti doors hung to steel frames				
6	44mm Framed batten door 813×2032 mm high of 44×150 mm top rail and stiles, 22×150 mm middle ledge and braces and 22×220 mm bottom rail filled in with 22 mm V-jointed one side boarding and including weatherboard (D1)	No	1		
	Carried Forward to Summary of Section No.2			R	
	Carried Forward to Summary of Section No.2	l		K	

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	BILL NO.8				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CATCHES, CABIN, HOOKS, ETC				
	<u>Approved</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
	LOCKS				
	Approved				
2	Four lever mortice lockset	No	1		
	DOORSTOPS				
	<u>Approved</u>				
3	38mm Diameter rubber door stop plugged	No	1		
	LETTERS, NAMEPLATES, ETC.				
	Union or similar approved				
4	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	1		
	BATHROOM FITTINGS				
	Kimberley-Clarkor Simlilar				
5	Kimberly Clark SQ2 code 405607B white lockable toilet roll holder	No	3		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.9				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,6mm Double rebated frames suitable for one brickwalls				
1	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
2	Window type NE1, 533 x 654mm high including burglar bars	No	3		
3	Window type NE 7,1022 x 654mm high including burglar bars	No	1		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
4	Purpose made square hallow section mild steel security gate, size 813×2032 mm High	No	1		
	Carried Forward to Summary of Section No.2			R	

PLASTERING SUPPLEMENTARY PREAMBLES For preambles see "Specifications of materials and methods to be used - PW 371" CEMENT SCREEDS TO CONCRETE Screeds to steel trowelled, on concrete: 1 30mm thick on floors m² 16 INTERNAL PLASTER Cement plaster on brickwork or blockwork 2 On pits walls m² 23 FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28 Carried Forward to Summary of Section No. 2		BILL NO. 10				
For preambles see "Specifications of materials and methods to be used - PW 371" CEMENT SCREEDS TO CONCRETE Screeds to steel trowelled, on concrete: 1 30mm thick on floors		PLASTERING				
used - PW 371" CEMENT SCREEDS TO CONCRETE Screeds to steel trowelled, on concrete: 1 30mm thick on floors m² 16 INTERNAL PLASTER Cement plaster on brickwork or blockwork 2 On pits walls m² 23 FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28		SUPPLEMENTARY PREAMBLES				
Screeds to steel trowelled, on concrete: 1 30mm thick on floors m² 16 INTERNAL PLASTER Cement plaster on brickwork or blockwork 2 On pits walls m² 23 FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28						
1 30mm thick on floors m² 16 INTERNAL PLASTER Cement plaster on brickwork or blockwork 2 On pits walls m² 23 FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28		CEMENT SCREEDS TO CONCRETE				
INTERNAL PLASTER Cement plaster on brickwork or blockwork 2 On pits walls m² 23 FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28		Screeds to steel trowelled, on concrete:				
Cement plaster on brickwork or blockwork 2 On pits walls m² 23 FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28	1	30mm thick on floors	m²	16		
PLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28		INTERNAL PLASTER				
FLOOR AND WALLS SEALERS Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28		Cement plaster on brickwork or blockwork				
Minimum two coats approved epoxy coat: 3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28	2	On pits walls	m²	23		
3 On screed m² 16 4 On internal textured plaster walls and floors in pit m² 28		FLOOR AND WALLS SEALERS				
4 On internal textured plaster walls and floors in pit m² 28		Minimum two coats approved epoxy coat:				
	3	On screed	m²	16		
Carried Forward to Summary of Section No.2	4	On internal textured plaster walls and floors in pit	m²	28		
Carried Forward to Summary of Section No.2						
Carried Forward to Summary of Section No.2						
Carried Forward to Summary of Section No.2						
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Carried Forward to Summary of Section No.2						
		Carried Forward to Summary of Section No.2			R	

	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
	Supply and install pre-cast double concrete wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
	Alow the provisional sum of R40 000 for complete installation of Enviroloo system	Item	1		
3	Profit and attendance on above item	Item	1		
	<u>FITTINGS</u>				
4	19mm chrome plated push button taps to wash troughs	No	2		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 12			
	<u>GLAZING</u>			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m ²	2		
	Carried Forward to Summary of Section No.2		R	

	BILL NO. 13				
	PAINTWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint				
1	On fascias and barge boards	m²	7		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel				
2	On doors (External)	m²	5		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel				
3	On door frames	m²	2		
4	On gates (Measured over the full flat area of both sides)	m²	3		
5	On gutters and down pipes	m	2		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel				
6	On windows with burglar bars	m²	4		
	Carried Forward to Summary of Section No.2			R	

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BUILDING WORKS - GR5

M	DESCRIPTION		QUANTITY	RATE	AMOUNT
	SECTION 1				
	BILL NO.1				
	<u>EARTHWORKS</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"	!			
	SITE CLEARANCE				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m²	105		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m²	44		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m³	5		
4	Pit	m³	19		
5	For aprons thickenning	m³	1		
	Extra over trench and hole excavations in earth for				
	excavation:				
6	Soft rock	m³	1		
7	Hard rock	m³	2		
	Extra over all excavations for carting away:				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be alocated by the Contractor	m³	20		
	Risk of collapse of excavations				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m²	37		
	Carried Forward			R	

	Brought Forward			R	
	Keeping excavations free of water.				
10	Keeping excavations free of water other than subterranean water	Item	1		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
11	Under floors, steps, pavings, etc.	m³	5		
12	Backfilling to trenches, holes, etc.	m³	8		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		17		
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		12		
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		12		
	Prescribed density tests on filling				
16	Modified AASHTO Density tests	No	5		
	SOIL POISONING				
	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	17		
18	To bottom of concrate aprons	m²	22		
19	To bottoms and sides of trenches, etc.	m²	24		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.3		
	CONCRETE, FORMWORK AND REINFORCEMENT		
	SUPPLEMENTARY PREAMBLES		
	For preambles see "Specifications of materials and methods to be used - PW 371"		
	UNREINFORCED CONCRETE, ETC		
	25Mpa/19mm Concrete		
1	Strip footings	m³	2
2	Ditto, but surface bed in pit	m³	2
3	2Aprons cast in panels	m³	2
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	1
5	Thickening down apron on edge 110mm deep x 200mm wide	m	1
	REINFORCED CONCRETE, ETC		
	25Mpa/19mm Concrete		
6	Slabs	m³	2
	CONCRETE SUNDRIES		
	Finishing top surfaces of concrete smooth with a wood float		
7	Aprons and pavings to falls	m²	25
	TEST CUBES		
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	5
	Finishing top surfaces of concrete smooth with a steel trowel		
9	Suface beds, slabs, etc.	m²	20
	Carried Forward		

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	Brought Forward			R	
	<u>FORMWORK</u>				
	Rough formwork to sides:				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25		
	Permanent formwork to soffits:				
11	Slabs propped up not exceeding 1.5m high	m²	3		
12	Leave or form 500mm diameter opening in top of floor slab	No	5		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett)				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m²	32		
	Carried Forward to Summary of Section No.2			R	

BILL NO.4

BRICKWORK

SUPPLEMENTARY PREAMBLES

For preambles see "Specifications of materials and methods to be used - PW 371"

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.

User note: The above preamble generally applies for works in hot and humid coastal areas

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 Forward

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	Brought Forward SAMPLES			R	
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
1	One brick walls	m²	5		
2	One brick walls in pit	m²	30		
3	4Half brick corbelling in pit	m	30		
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
4	Extra over brickwork for face brickwork in foundation	m²	4		
	<u>SUPERSTRUCTURE</u>				
	FACE BRICKWORK				
	Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints				
5	Half brickwork for face brick walls pointed both sides	m²	4		
6	One brickwork for face brick walls pointed both sides	m²	56		
7	Extra over brickwork for face brickwork in beamfilling	m²	3		
8	Fair raking and cutting	m	11		
	Carried Forward			R	
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	Brought Forward			R	
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces				
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	6		
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6		
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	11		
	BRICKWORK SUNDRIES				
	Brick reinforcement				
12	75mm Wide reinforcement built in horizontally	m	73		
13	150mm Wide reinforcement built in horizontally	m	163		
	Turning pieces				
14	220mm Wide turning piece to lintel etc	m	6		
	Galvanised wire ties etc				
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	14		
	Prestressed fabricated lintels				
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m $$	m	11		
	Ventillation bricks				
17	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	7		
	Cowled Forward to Common of Costing No. 2			5	
	Carried Forward to Summary of Section No.2			R	

	BILL NO.5				
	WATERPROOFING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer 375mm micron embossed damp proof course				
1	In walls	m²	4		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape				
2	Under surface beds	m²	17		
	FLOOR AND WALLS SEALERS				
	Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
3	Around steel windows and door frames.	m	23		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.6				
	ROOF COVERINGS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)				
1	Allow the Provisional Amount of R6 000.00 (Six Thousand Rand) for supply and installation of roof sheeting	Item	1		
	Sundries				
2	12" Thermal resistance sisalition laid on purlins	m²	20		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	$100 \times 100 \times 0.6$ mm Standard rainwater gutters fixed with gutters brackets	m	6		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	3		
6	Extra over rainwater pipe for eaves offset	No	2		
7	Ditto ,for shoe	No	1		
	Carried Forward to Summary of Section No.2			R	

	BILL NO.7			
	CARPENTRY AND JOINERY			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	ROOFS, ETC.			
	The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood			
1	Allow the Provisional Amount of R4 500.00 (Four Thousand Five Hundred Rand) for supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc.		1	
	<u>Sundries</u>			
2	Two coats creosote on sawn timbers	m²	26	
3	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	14	
4	Hurricane clips	No	24	
	EAVES, VERGES, ETC.			
	Pressed fibre-cement			
5	$15 \times 230 \text{mm}$ Fascias and barge boards including galvanised steel H-profile jointing strips	m	23	
	DOORS, ETC.			
	Wrought meranti doors hung to steel frames			
6	44mm Framed batten door 813×2032 mm high of 44×150 mm top rail and stiles, 22×150 mm middle ledge and braces and 22×220 mm bottom rail filled in with 22 mm V-jointed one side boarding and including weatherboard (D1)		1	
	Carried Forward to Summary of Section No.2			R

	BILL NO.8				
	IRONMONGERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CATCHES, CABIN, HOOKS, ETC				
	<u>Approved</u>				
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
	LOCKS				
	<u>Approved</u>				
2	Three lever mortice lockset	No	1		
	DOORSTOPS				
	<u>Approved</u>				
3	38mm Diameter rubber door stop plugged	No	1		
	LETTERS, NAMEPLATES, ETC.				
	Union or similar approved				
4	$75 \times 150 \text{mm}$ Natural anodised aluminium plate with male or female symbol	No	1		
	BATHROOM FITTINGS				
	Kimberley-Clarkor Simlilar				
5	Kimberly Clark SQ2 code 405607B white lockable toilet roll holder	No	5		
	Cowled Forward to Company of Costing No. 2				
	Carried Forward to Summary of Section No.2	ļ		R	

	BILL NO.9				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	PRESSED STEEL DOOR FRAMES				
	1,6mm Double rebated frames suitable for one brickwalls				
1	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
2	Window type NE1, 533 x 654mm high including burglar bars	No	5		
3	Window type NE 7,1022 x 654mm high including burglar bars	No	2		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames				
4	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1		
	Carried Earniard to Commons of Casties No. 2				
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 10				
	PLASTERING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
1	30mm thick on floors	m²	17		
	INTERNAL PLASTER				
	Cement plaster on brickwork or blockwork				
2	On pits walls	m²	49		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m²	17		
4	On internal textured plaster walls and floors in pit	m²	49		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Supply and install pre-cast double concrete wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000mm covered with "bidim"		1		
2	Alow the provisional sum of R70 000 for complete installation of Enviroloo system	Item	1		
3	Profit and attendance on above item	Item	1		
	<u>FITTINGS</u>				
4	19mm chrome plated push button taps to wash troughs	No	2		
	Carried Forward to Summary of Section No.2			R	

	BILL NO. 12			
	<u>GLAZING</u>			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	6.38mm Obscure safety glass			
1	Panes not exceeding 0,1 m2 m ²	3		
	Carried Forward to Summary of Section No.2		R	
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	BILL NO. 13				
	PAINTWORK				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ON FIBRE-CEMENT				
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint				
1	On fascias and barge boards	m²	6		
	ON WOOD				
	Undercoat and minimum 2 coat gloss enamel				
2	On doors (External)	m²	4		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel				
3	On door frames	m²	2		
4	On gates (Measured over the full flat area of both sides)	m²	3		
5	On gutters and down pipes	m	3		
	Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel				
6	On windows with burglar bars	m²	6		
	Carried Forward to Summary of Section No.2			R	

	SUMMARY (BUILDING WORKS - GR5)		
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	Carried to Final Summary		R

PROVISIONAL SUMS

1	DESCRIPTION		QUANTITY	RATE	AMOUNT
	PROVISIONAL SUMS				
	All the provisional sums cover supply of material and equipment and installation where applicable by firms of specialists.				
	Provisional sums are net and do not include builder's discount, but the Tenderer may allow under "Profit" items any profit he considers necessary.				
	The Tenderer is referred to Clause 87.1 and 87.2 in the "Preliminaries" section for the definition and adjustment of "General Attendance".				
	N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE- MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE				
	DEMOLITION OF EXISTING TOILET STRUCTURES				
1	Allow the Provisional Amount of R 16 500.00 NET for demolition of delapitetd toilets structure	Item	1		
	REFURBISHMENT OF ENVIRO LOO TOILETS				
2	Allow the Provisional Amount of R 70 000.00 for refurbushment of enviroloo toilets	Item	1		
	REFURBISHMENT OF EXISTING BOREHOLE				
3	Allow the Provisional Amount of R45 000.00 (Forty Five Thousand Rand) for refurbishment of existing borehole	Item	1		
	WATER TANK STORAGE				
4	Allow the Provisional Amount of R 45 000.00 (Forty Five Thousand Rand) for supply and installation of 1 x 10 000 litres water tank and 6m elevated water tank stands	Item	1		
5	Profit and attendance	Item	1		
	SEPTIC TANK				
6	Allow the Provisional Amount of R130 000.00 (One Hundred and Thirty Thousand Rand) for constrution of septic tank and french drain		1		
	Carried to Final Summary				R

FINAL SUMMARY

ITEM NO	DESCRIPTION	PAGE	AMOUNT
	FINAL SUMMARY		
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2	BILDING WORKS - M2		
3	BUILDING WORKS - M6		
4	BUILDING WORKS - F6		
5	BUILDING WORKS - F10		
6	BUILDING WORKS - GR 3		
7	BUILDING WORKS - GR 4		
8	PROVISIONAL SUMS		
	SUB TOTAL (A)		
	Provide 5% (FIVE PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not required		
	Provide 18% (EIGHTEEN PERCENT) on Sub-total (A) for professional fees		
	SUB TOTAL (B)		
	Add VAlue Added Tax @ 15%		
	Total	R	