Item No		Quantity	Rate	Amount	
	SECTION 1				
	BILL NO. 1				
	PRELIMINARIES				
	BUILDING AGREEMENT AND PRELIMINARIES				
	The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described				
	The Preliminaries are 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				
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	DDEAMDLES FOR TRADES				
	PREAMBLES FOR TRADES				
	The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained				
	Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project				
	The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles				
	<u>GENERAL</u>				
	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				
1	Definitions and interpretation (clause 1)				
	F: V: T:	Item			
	Objective and Preparation (A2 to A14)				
2	Offer acceptance and performance (clause 2)				
	F: V: T:	Item			
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3	Documents (clause 3)			
	F: V: T:	Item		
4	Design responsibility (clause 4)			
	F: V: T:	Item		
5	Employer's agents (clause 5)			
	F: V: T:			
	The principal agent shall:			
	- monitor and control progress and scheduling			
	- monitor all contract conditions, and			
	 coordinate the efforts of the employer's agents, the contractor and subcontractors 			
	The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part			
	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			
		Item		
6	Site representative (clause 6)			
	F: V: T:	Item		
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7	Compliance with regulations (clause 7)			
	F: V: T:			
	Sub-clause 7.3 added: The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work.			
	Sub-clause 7.3.1 is added: Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement."			
	Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.			
	The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.			
		Item		
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8	Works risk (clause 8)			
	F: V: T:			
		Item		
9	Indemnities (clause 9)			
	F: V: T:	Item		
10	Works insurances (clause 10)			
	F: V: T:	Item		
11	Liability insurances (clause 11)			
	F: V: T:	Item		
12	Effecting insurance (clause 12)			
	F: V: T:	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14)			
	The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)			
	F: V: T:	Item		
	Execution (A15-A23)			
15	Preparation for and execution of the works (clause 15)			
	F: V: T:	Item		
	Carried to Collection		R	
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16	Access to the works (clause 16)			
	F: V: T:	Item		
17	Contract instructions (clause 17)			
	F: V: T:	Item		
18	Setting out of the works (clause 18)			
	F: V: T:			
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Hora		
		Item		
19	Assignment (clause 19)			
	F: V: T:			
	The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer			
		Item		
20	Nominated subcontractors (clause 20)			
	F: V: T:	Item		
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21	Selected subcontractors (clause 21)			
	F: V: T:			
	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			
		Item		
22	Employer's Direct Contractors (clause 22)			
	F: V: T:	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23)			
	F: V: T:	Item		
	Completion (A24-A30)			
24	Practical completion (clause 24)			
	F: V: T:	Item		
25	Works completion (clause 25)			
	F: V: T:	Item		
26	Final completion (clause 26)			
	F: V: T:	Item		
27	Latent defects liability period (clause 27)			
	F: V: T:	Item		
	Carried to Collection		R	
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28	Sectional completion (clause 28)			
	F: V: T:	Item		
29	Revision of date of practical completion (clause 29)			
	F: V: T:			
	The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)			
		Item		
30	Penalty for non-completion (clause 30)			
	F: V: T:			
		Item		
	Payment (A31 - A35)			
31	Interim payment to the contractor (clause 31)			
	F: V: T:			
		Item		
32	Adjustment to the contract value (clause 32)			
	F: V: T:			
	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			
		Item		
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	Carried to Collection Section No. 1		R	
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33	Recovery of expense and loss (clause 33)			
	F: V: T:	Item		
34	Final account and final payment (clause 34)			
	F: V: T:			
	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			
		Item		
35	Payment to other parties (clause 35)			
	F: V: T:	Item		
	Cancellation (A36-A39)			
36	Cancellation by employer - contractor's default (clause 36)			
	F: V: T:	Item		
37	Cancellation by employer - loss and damage (clause 37)			
	F: V: T:	Item		
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38	Cancellation by contractor - employer's default (clause 38)			
	F: V: T:	Item		
39	Cancellation - cessation of the works (clause 39)			
	F: V: T:	Item		
	Dispute (A40)			
40	Dispute Settlement (clause 40)			
	F: V: T:	Item		
	Substitute Provisions (A41)			
41	State clauses (Clause 41)			
	F: V: T:			
		Item		
	THE SCHEDULE			
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42)			
	F: V: T:	Item		
	42.1 CONTRACTING AND OTHER PARTIES			
	42.1.1 Employer: The Mvula Trust			
	42.1.2 Principal Agent: SRSQS Quantity Surveyors [Pty] Ltd			
	Counted to Callagation			
	Carried to Collection Section No. 1		R	H
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42.2 CONTRACT DETAILS		
42.2.1 Works Description: Construction of water and sanitation facilities		
42.2.2 Site Description: As per the information provided in the tender data		
42.2.3 Work or installations by direct contractors:		
As per the information provided in the tender data		
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:		
As per the information provided in the tender data		
42.2.6 Period for the commencement of the works after the contractor takes possession of site:		
Seven days		
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42.2.7 For the works as a whole. Intended date of practical completion and the penalty per				1
calendar day				ı
Intended Date of Practical Completion: As per the information provided in the tender data				l
Penalty Amount: The penalty per calender day shall be:0.05% per R100 of the contract value (inclusive of value added tax)				
42.2.8 For the works in sections : Intended date of practical completion and the penalty per calender day				
Section 1 N/A Date				ı
				ı
N/A Penalty Amount				ı
42.2.9 The law applicable to this agreement shall be that of:				
South Africa (Country)				ı
42.3 INSURANCES				1
42.3.1 Contract works insurance to be effected by:				Ì
Contractor:				ı
For the Sum of R Contract Amount + 10.00 %				ı
With a deductible amount the contractor deems appropriate				1
42.3.2 Supplementary insurance is required:				ı
No				ı
				ı
				ı
				ı
				ı
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42.3.3	Public liability insurance to be effected by:		
	Contractor:		
	For the Sum of R 5 000 000-00		
	With a deductible amount the contractor deems appropriate		
42.4 D	OCUMENTS .		
42.4.1	Waivers of contractors lien or right of continuing possession is required		
	Yes		
42.4.2	Number of construction document copies to be supplied to the contractor free of charge:		
	3 Number of		
42.4.3	Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with:		
	"Standard System of Measuring Builders' Work"		
42.4.4	On acceptance of the tender the bills of quantities/lump sum document is to be submitted within:		
	5 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		
	Carried to Collection	R	
	MINARIES AND GENERAL		
Bill No. PRELIN	1 MINARIES		
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	42.4.6 The contract value is to be adjusted using escalation adjustment indices			
	No			
	Where JBCC CPAP is to be used			
	Base Month N/A			
	42.4.7 Details of changes made to the provision of JBCC standard documentation:			
	Part 1 - Contract Data completed by the Employer			
	SECTION B: PRELIMINARIES			
	Definitions and interpretation (B1)			
43	Definition and interpretation (B1.1 - B1.4.6)			
	F: V: T:	Item		
	Documents (B2)			
44	Checking of documents (B2.1)			
	F: V: T:	Item		
45	Provisional bills of quantities (B2.2)			
	F: V: T:	N/A		
46	Availability of construction documentation (B2.3)			
	F: V: T:	Item		
47	Interests of agents (B2.4)			
	F: V: T:	Item		
48	Priced documents (B2.5)			
	F: V: T:	Item		
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49	Tender submission (B2.6)			
	F: V: T:	Item		
50	Defined works area (B3.1)			
	F: V: T:	Item		
	The site (B3)			
51	Geotechnical investigation (B3.2)			
	F: V: T:	Item		
52	Inspection of the site (B3.3)			
	F: V: T:	Item		
	Existing premises occupied (B3.4)			
	F: V: T:			
	Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.			
	Previous work - dimensional accuracy (B3.5)			
	F: V: T:			
	Previous work - defects (B3.6)			
	F: V: T:			
53	Services - known (B3.7)			
	F: V: T:	Item		
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54	Services - unknown (B3.8)			
	F: V: T:	Item		
55	Protection of trees etc (B3.9)			
	F: V: T:	Item		
56	Articles of value (B3.10)			
	F: V: T:	Item		
	Management of contract (B4)			
57	Inspection of adjoining properties etc (B3.11)			
	F: V: T:	Item		
58	Management of the works (B4.1)			
	F: V: T:	Item		
59	Programme for the works (B4.2)			
	F: V: T:	Item		
60	Progress meetings (B4.3)			
	F: T:	Item		
61	Technical meetings (B4.4)			
	F: V: T:	Item		
62	Labour and Plant records (B4.5)			
	F: V: T:	Item		
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	Samples, Shop Drawings and Man Instructions (B5)	nufacturer's			
63	Samples of materials (B5.1)				
	F: V: T	F:	Item		
64	Workmanship samples (B5.2)				
	F: V: T	Γ:	Item		
65	Shop drawings (B5.3)				
	F: V: T	F:	Item		
66	Compliance with Manufacturer's Inst	ructions (B5.4)			
	F: V: T	F:	Item		
	Temporary works and plant (B6)				
67	Deposits and fees (B6.1)				
	F: V: T	F:	Item		
68	Enclosure of the works (B6.2)				
	F: V: T	F:	Item		
69	Advertising (B6.3)				
	F: V: T	Г:	Item		
70	Plant, equipment, sheds and offices	(B6.4)			
	F: V: T	Γ:	Item		
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71	Main notice board (B6.5)			
	F: V: T:	Item		
72	Subcontractors' notice board (B6.6)			
	F: V: T:	N/A		
	Temporary services (B7)			
73	Location (B7.1)			
	F: V: T:	Item		
74	Water (B7.2) Option [A] shall apply			
	F: V: T:	Item		
75	Electricity (B7.3) Option [A] shall apply			
	F: V: T:	Item		
76	Telecommunication facilities (B7.4)			
	F: V: T:	Item		
77	Ablution facilities (B7.5) Option [A] shall apply			
	F: V: T:	Item		
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	Prime cost amounts (B8)			
78	Responsibility for prime cost amounts (B8.1)			
	F: V: T:	Item		
	Attendance on N/S Subcontractors (B9)			
79	General attendance (B9.1)			
	F: V: T:	Item		
80	Special attendance (B9.2)			
	F: V: T:	Item		
81	Commissioning - Fuel, water and power (B9.3)			
	F: V: T:	Item		
	Financial aspects (B10)			
	Statutory taxes, duties and levies (B10.1)			
	F: V: T:	Item		
82	Payment of preliminaries (B10.2) Option [B] shall apply			
	F: V: T:	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply			
	F: V: T:	Item		
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84	Payment certificate cash flow (B10.4)			
	F: V: T:	Item		
	General (B11)			
85	Protection of works (B11.1)			
	F: V: T:	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F: V: T:	Item		
87	Security of the Works (B11.3)			
	The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)			
	F: V: T:	Item		
88	Notice before covering work (B11.4)			
	F: V: T:	Item		
89	Disturbance (B11.5)			
	F: V: T:	Item		
90	Environmental Disturbance (B11.6)			
	F: V: T:	Item		
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91	Works cleaning and clearing (B11.7)			
	F: V: T:	Item		
92	Vermin (B11.8)			
	F: V: T:	Item		
93	Overhand work (B11.9)			
	F: V: T:	Item		
94	Instruction manuals and guarantees (B11.10)			
	F: V: T:	Item		
95	As built information (B11.11)			
	F: V: T:	Item		
96	Tenant Installations (B11.12)			
	F: V: T:	Item		
	Schedule of variables (B12)			
97	Pre-tender information (B12.1)			
	F: V: T:	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			
	No			
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete			
	No			
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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 Existing premises occupied (B3.4)				
12.1.7 Previous work - dimensional accuracy (B3.4)				
12.1.8 Previous work - defects (B3.5)				
12.1.9 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)				
12.1.11 Inspection of adjoining properties (B3.11)				
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12.1.13 Offices (B6.4.3)		
Specific requirements:		
The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.		
12.1.14 Main notice board (B6.5)		
YES		
42.4.45 Subscribe atom nation board (DC C)		
12.1.15 Subcontractors notice board (B6.6)		
A notice board is required Yes		
12.1.16 Water (B7.2)		
Alternative Selected: A		
12.1.17 Electricity (B7.3)		
Alternative selected: A		
12.1.18 Telecommunications (B7.4)		
12.1.19 Ablution facilities (B7.5)		
Alternative selected: A		
12.1.20 Protection of existing/sectionally occupied works (B11.2)		
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	i		n ·	
12.1.21 Special attendance (B9.2)				
Subcontractor (1) details:				
N/A				
12.1.22 Protection of the works (B11.1)				
N/A				
12.1.23 Disturbance (B11.5)				
N/A				
12.1.24 Environmental Disturbance (B11.6)				
N/A				
Post tender information (B12.2)				
12.2.1 Payment 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				
		_		
Carried to Collection Section No. 1		R		
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PRELIMINARIES				
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98	Site instructions			
	Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor			
	F: : T:	Item		
99	Black economic empowerment and training			
	F: V: T:	Item		
100	Proprietary branded products			
	F: V: T:			
		Item		
101	Testing of flat roof waterproofing for watertightness			
	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing			
	F: T:	Item		
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative			
102	Contract instructions			
	F: V: T:	Item		
	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			
	Carried to Collection Section No. 1		R	
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

103	Labour record			
	F: V: T:	Item		
	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			
104	Plant record			
	F: V: T:	Item		
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week			
105	Guarantees			
	F: V: T:	Item		
	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			
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106	Overtime			
	F: V: T:	Item		
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer			
107	Co-operation of contractor for cost management			
	F: V: T:	Item		
	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			
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108	Occupational Health and Safety Specification				
	F: V: T:				
	The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)				
	It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document				
	The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment				
	Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained				
	The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained				
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109	HIV/AIDS Awareness			
	F: V: T:			
	It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.			
	The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment			
		Item		
	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 R			
	Category : Value R			
	Category : Time R			
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	ALTERATIONS			
	SUPPLEMENTARY PREAMBLES			
	<u>View site</u>			
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.			
	<u>Explosives</u>			
	No explosives whatsoever may be used for demolition.			
	<u>General</u>			
	Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.			
	Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up,re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing			
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	dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.				
	Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc.				
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing.				
	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork.				
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary.				
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc).				
	<u>DEMOLITIONS</u>				
	DEMOLITIONS OF EXISTING TOILET STRUCTURES				
1	Demolish existing pit toilet structures including hacking up and removing foundations and surface beds, doors, windows and door frames, ironmongery and plumbing fittings complete. All pits are to be filled with soil.	No	16		
	ALTERATIONS				
	Breaking down and removing mass concrete				
2	100mm Thick surface bed	m2	11		
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	Taking out and removing doors, windows, etc including threshold, sills, etc (building up openings				
	elsewhere)				
3	Timber single door and steel frame 813 x 2032mm high	No	36		
4	Steel security gate 900 x 2100mm high	No	10		
	Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc				
5	30mm Screed from floors	m2	190		
	Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and preparing pipes for new fittings(e/m) making good floor and wall finishes(making good and wall finishes e/m)				
6	Vitreous china WC pan with cistern	No	36		
7	Vitreous china basin	No	36		
	SERVICING OF DOORS AND WINDOWS				
8	Replace existing damaged or missing brass window stay	No	28		
	CHEMICAL TREATMENT				
	Termite Post Construction Treatment				
9	Under floors etc including drilling of surfaces, brickwalls etc,and patching up to match existing finishes and supplying of a five (5) year guarantee certificate	m2	190		
	PREPARATORY WORK TO EXISTING SURFACES				
10	Cleaning and scrubbing down existing face brick with mild detergent till clean	m2	552		
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	UNREINFORCED CONCRETE, ETC				
11	2Aprons cast in panels	m3	11		
12	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	12		
13	Thickening down apron on edge 110mm deep x 200mm wide	m	120		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float:				
14	Aprons and pavings to falls	m2	120		
	TEST CUBES				
15	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		
	<u>FORMWORK</u>				
	Rough formwork to sides:				
16	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	120		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
17	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	50		
18	Extra over for closed ends	No	10		
19	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	40		
20	Extra over rainwater pipe for eaves offset	No	10		
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21	Ditto ,for shoe	No	10		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
22	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	50		
	DOORS, ETC.				
	Wrought meranti doors hung to steel frames:				
23	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	36		
	CATCHES, CABIN, HOOKS, ETC				
	Approved:				
24	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	36		
	LOCKS				
	Approved:				
25	Three lever mortice lockset	No	10		
26	Indicator lockset	No	36		
	DOORSTOPS				
	Approved:				
27	38mm Diameter rubber door stop plugged	No	46		
	LETTERS, NAMEPLATES, ETC.				
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	"Union" or similar approved:				
28	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	10		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar:				
29	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	36		
	Stainless steel:				
30	Stainless steel mirror size 350 x 400m plugged to wall with chrome platted screws.	No	10		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
31	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	10		
	CEMENT SCREEDS TO CONCRETE				
	Screeds to steel trowelled, on concrete:				
32	30mm thick on floors	m2	190		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
33	On screed	m2	190		
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	White glazed fireclay or vitreous china coupling with SABS specification 497 in					
34	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxy silicone sealant where basin meets wall. • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm					
	Depth: 480mm.	No	36			
35	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	36			
36	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)					
	onzymo ana tonot dicanor (i E.c.)	No	4			
	GLAZING TO STEEL WITH PUTTY					
	4mm Obscure safety glass:					
37	Panes not exceeding 0,1 m2	m2	11			
	PAINTWORK					
	ON FIBRE-CEMENT					
	Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint:					
38	On fascias and barge boards	m2	10			
	ON WOOD					
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	Undercoat and minimum 2 coat gloss enamel:				
39	On Doors	m2	126		
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel:				
40	On door frames	m2	19		
41	On gates (Measured over the full flat area of both sides)	m2	38		
42	On gutters and down pipes	m	50		
	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:				
43	On windows with burglar bars	m2	23		
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	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.	12	77		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	12	77		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep:				
3	Trenches	13	10		
4	Pit	13	29		
5	For aprons thickenning	13	3		
	Extra over trench and hole excavations in earth for excavation:				
6	Soft rock n	13	4		
7	Hard rock m	13	4		
	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	13	34		
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	Risk of collapse of excavations:	1			1
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	42		
	Keeping excavations free of water:				
10	Keeping excavations free of water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:				
11	Under floors, steps, pavings, etc.	m3	3		
12	Backfilling to trenches, holes, etc.	m3	1		
	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	21		
14	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	29		
15	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	1112	23		
	defisity	m2	20		
	Prescribed density tests on filling:				
16	Modified AASHTO Density tests	No	5		
	SOIL POISONING				
					_
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	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	20		
18	To bottom of concrate aprons	m2	28		
19	To bottoms and sides of trenches, etc.	m2	32		
20	To bottom and sides of pit	m2	41		
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	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	3			
2	2Aprons cast in panels	m3	2			
3	Ramp	m3	1			
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	4			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	24			
	REINFORCED CONCRETE, ETC					
	25Mpa/19mm Concrete:					
6	Surface beds	m3	4			
7	Concrete base Slab in Pit	m3	3			
	CONCRETE SUNDRIES					
	Openia d to Oplication					-
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	Finishing top surfaces of concrete smooth with a steel trowel:				
8	Suface beds, slabs, etc.	m2	62		
	Finishing top surfaces of concrete smooth with a wood float:				
9	Aprons and pavings to falls	m2	41		
	TEST CUBES				
10	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		
	FORMWORK				
	Rough formwork to sides:				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	24		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	41		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett):				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	63		
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	BILL NO.3			
	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			
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	Pointing:				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those 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	36		
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
2	Extra over brickwork for face brickwork in foundation	m2	2		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
3	Half brickwork for face brick walls pointed both sides	m2	19		
4	One brickwork for face brick walls pointed both sides	m2	72		
5	Extra over brickwork for face brickwork in beamfilling	m2	4		
6	Fair raking and cutting	m	8		
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	Brick-on-edge header course coping, sills, etc. of face				
	bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	8		
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6		
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2		
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7		
	BRICKWORK SUNDRIES				
	Brick reinforcement:				
10	75mm Wide reinforcement built in horizontally	m	21		
11	150mm Wide reinforcement built in horizontally	m	602		
	Turning pieces:				
12	220mm Wide turning piece to lintel etc	m	8		
	Galvanised wire ties etc.:				
13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	15		
	Prestressed fabricated lintels:				
14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	8		
	Ventilation bricks:				
15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	9		
	Carried to Collection			R	
	Section No. 3 F5				
	Bill No. 3 MASONRY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Section No. 3				
Bill No. 3				
MASONRY				
COLLECTION				
Total Brought Forward from Page No.	Page No 48 49 50		Amount	
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Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.4				
	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 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	20		
3	Aprons and ramps	m2	29		
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
4	Around steel windows and door frames.	m	4		
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	F5 Bill No. 4 WATERPROOFING				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.5				
	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" chromadek profile roof sheeting fixed to timber purlins (elsewhere):				
1	Roof covering with pitch not exceeding 25 degrees	m2	40		
	Sundries:				
2	12" Thermal resistance sisalition laid on purlins	m2	40		
	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	7		
6	Extra over rainwater pipe for eaves offset	No	2		
	Carried to Collection Section No. 3			R	
	F5 Bill No. 5 ROOF COVERINGS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

7	Ditto ,for shoe	2		
	Carried to Collection Section No. 3		R	_
	F5 Bill No. 5			
	ROOF COVERINGS			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

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ROOF COVERINGS			
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	41		
2	76 x 38mm Wall plates	m	15		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	41		
	Sundries:				
4	Two coats creosote on sawn timbers	m2	23		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	16		
6	Hurricane clips	No	42		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	22		
	DOORS, ETC.				
	Section No. 3			R	
	F5 Bill No. 6 CARPENTRY AND JOINERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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	Wrought meranti doors hung to steel frames:					
8	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			
9	44mm 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	5			
10	44mm Framed batten door 900 x 2100mm 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 (D3)	No	1			
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	Section No. 3	ion		R		_
	F5					
	Bill No. 6 CARPENTRY AND JOINERY					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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CARPENTRY AND JOINERY			
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.7				
	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	7		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	1		
3	Indicator lockset	No	6		
	DOORSTOPS				
	Approved:				
4	38mm Diameter rubber door stop plugged	No	7		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Comind to Callegation			D	
	Carried to Collection Section No. 3			R	
	F5 Bill No. 7 IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Push Plate					
6	TS73-SS-FP or other approved 60 X 225 X 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.					
		No	1			
	"Vaal Paragon" or similar approved:					
7	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.					
		No	1			
8	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.					
		No	1			
	BATHROOM FITTINGS					
	"Kimberley-Clark"or Simlilar:					
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	6			
	Stainless steel:					
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome platted screws.	No	2			
	Carried to Collection			R		
	Section No. 3 F5					
	Bill No. 7 IRONMONGERY					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					
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Section No. 3				
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IRONMONGERY				
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F5 Bill No. 7 IRONMONGERY				
Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.8				
	METALWORK				
	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 half brickwalls:				
1	Frame for door 813 x 1883mm high	No	5		
2	Frame for door 900 x 2100mm high	No	1		
	1,6mm Double rebated frames suitable for one brickwalls:				
3	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
4	Window type NE1, 533 x 654mm high including burglar bars	No	6		
5	Window type NE 7,1022 x 654mm high including burglar bars	No	3		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
6	Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	Bill No. 8 METALWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 9				
	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	20		
	WALL PLASTER				
	Cement Plaster on walls				
2	On Interior sides of Pit walls	m2	26		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	20		
4	On interior sides of plastered Pit Walls	m2	26		
	Carried Forward to Summary of Section No. 2			R	
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	F5 Bill No. 9 PLASTERING				
	PLASTERING Proposed By:: SPSOS QUANTITY SUBVEYORS (BTVL) TD				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	6		
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)	No	6		
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
	INSPECTION BY ENVIRO-LOO/SUPPLIER				
4	Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.		Item		
	Section No. 3			R	
	F5 Bill No. 10 PLUMBING AND DRAINAGE				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	White glazed fireclay or vitreous china coupling with SABS specification 497 in				
5	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxy silicone sealant where basin meets wall. • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm • Depth: 480mm.	No	1		
6	Elbow taps	No	1		
	<u>FITTINGS</u>				
7	19mm chrome plated push button taps to wash troughs	No	1		
	Sundries				
8	Stainless-steel 24L SHE-BIN plugged to walls	No	2		
	Carried to Collection			R	
	Section No. 3 F5 Bill No. 10 PLUMBING AND DRAINAGE Propared By: SPSOS QUANTITY SUBVEYORS IPTYLL TO				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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	PLUMBING AND DRAINAGE			
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	4mm Obscure safety glass:			
1	Panes not exceeding 0,1 m2 m2	2 2		
	Carried Forward to Summary of Section No. 3 Section No. 3		R	
	F5 Bill No. 11			
	GLAZING			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 12				
	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	8		
	ON WOOD				
	"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
2	On Doors (Internal)	m2	36		
	Three coats matt varnish				
3	On doors (External)	m2	14		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 12 PAINTWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
4	On door frames	m2	8		
5	On gates (Measured over the full flat area of both sides)	m2	6		
6	On gutters and down pipes	m	8		
7	On windows with burglar bars	m2	4		
	Carried to Collection			R	<u></u>
	Section No. 3 F5 Bill No. 12 PAINTWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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Item No			Quantity	Rate	Amount
	SECTION 3				
	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	106		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	n2	106		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep:				
3	Trenches	n3	14		
4	Pit	n3	41		
5	For aprons thickenning	n3	5		
	Extra over trench and hole excavations in earth for excavation:				
6	Soft rock n	n3	6		
7	Hard rock	n3	6		
	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	52		
	Carried to Collection Section No. 4			R	
	F9 Bill No. 1 EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Disk of colleges of even etions	1		ı		1
	Risk of collapse of excavations:					
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	61			
	Keeping excavations free of water:					
10	Keeping excavations free of water other than subterranean water		Item			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:					
11	Under floors, steps, pavings, etc.	m3	5			
12	Backfilling to trenches, holes, etc.	m3	1			
	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	30			
14	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	37			
15	Compaction of ground surface in pit etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density					
	deficity	m2	26			
	Prescribed density tests on filling:					
16	Modified AASHTO Density tests	No	5			
	SOIL POISONING					
						\top
	Carried to Collection Section No. 4			R		+
	F9					
	Bill No. 1 EARTHWORKS					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					
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	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	27		
18	To bottom of concrate aprons	m2	38		
19	To bottoms and sides of trenches, etc.	m2	45		
20	To bottom and sides of pit	m2	63		
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	Carried to Collection Section No. 4			R	<u> </u>
	F9 Bill No. 1				
	EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LT	ΓD			
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Item No			Quantity	Rate	Amount	
	SECTION 3					
	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	5			
2	2Aprons cast in panels	m3	4			
3	Ramp	m3	1			
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	5			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	41			
	REINFORCED CONCRETE, ETC					
	25Mpa/19mm Concrete:					
6	Surface beds	m3	6			
7	Concrete base Slab in Pit	m3	4			
	CONCRETE SUNDRIES					
	Comical to Collection			Б		_
	Carried to Collection Section No. 4			R		=
	F9 Bill No. 2 CONCRETE FORMWORK AND REINFORCEMENT					
	CONCRETE, FORMWORK AND REINFORCEMENT Property By: SPSOS QUANTITY SUPVEYORS (PTYLLT)					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

	Finishing top surfaces of concrete smooth with a steel trowel:				
8	Suface beds, slabs, etc.	m2	96		
	Finishing top surfaces of concrete smooth with a wood float:				
9	Aprons and pavings to falls	m2	38		
	TEST CUBES				
10	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. FORMWORK	No	5		
	Rough formwork to sides:				
11	Edges, risers, ends and reveals not exceeding 300mm				
	high or wide	m	44		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	62		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett):				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	94		
	Section No. 4			R	_
	F9 Bill No. 2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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ו		Quantity	Rate	Amount
5	SECTION 3			
<u> </u>	BILL NO.3			
_	BRICKWORK			
9	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
<u> </u>	BRICKWORK			
<u> </u>	Sizes in descriptions:			
l t	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u> </u>	Hollow walls etc.:			
10	Descriptions of hollow walls shall be deemed to include eaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
i a	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the nner 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			
<u> </u>	Face bricks:			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
F	Carried to Collection Section No. 4 F9 Bill No. 3 MASONRY		R	
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

	Pointing:				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those 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	50		
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
2	Extra over brickwork for face brickwork in foundation	m2	3		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
3	Half brickwork for face brick walls pointed both sides	m2	34		
4	One brickwork for face brick walls pointed both sides	m2	84		
5	Extra over brickwork for face brickwork in beamfilling	m2	12		
6	Fair raking and cutting	m	10		
					+
	Carried to Collection Section No. 4			R	+
	F9 Bill No. 3 MASONRY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all				
	exposed faces:				
7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	11		
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	9		
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2		
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7		
	BRICKWORK SUNDRIES				
	Brick reinforcement:				
10	75mm Wide reinforcement built in horizontally	m	21		
11	150mm Wide reinforcement built in horizontally	m	811		
	Turning pieces:				
12	220mm Wide turning piece to lintel etc	m	12		
	Galvanised wire ties etc.:				
13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	23		
	Prestressed fabricated lintels:				
14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	12		
	Ventilation bricks:				
15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	13		
	Carried to Collection			R	
	Section No. 4			, r	
	F9 Bill No. 3 MASONRY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.4				
	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	5		
	One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	31		
3	Aprons and ramps	m2	38		
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
4	Around steel windows and door frames.	m	7		
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	Bill No. 4 WATERPROOFING				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount	
	SECTION 3					
	BILL NO.5					
	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" chromadek profile roof sheeting fixed to timber purlins (elsewhere):					
1	Roof covering with pitch not exceeding 25 degrees	m2	60			
	Sundries:					
2	12" Thermal resistance sisalition laid on purlins	m2	60			
	RAINWATER DISPOSAL					
	Aluzink seamless metal gutters:					
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	12			
4	Extra over for closed ends	No	2			
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7			
6	Extra over rainwater pipe for eaves offset	No	2			
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

7	Ditto ,for shoe	2		
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	ROOF COVERINGS			
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ROOF COVERINGS			
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Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	62		
2	76 x 38mm Wall plates	m	23		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	63		
	Sundries:				
4	Two coats creosote on sawn timbers	m2	26		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	25		
6	Hurricane clips	No	64		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	34		
	DOORS, ETC.				
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	F9 Bill No. 6 CARPENTRY AND JOINERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Wrought meranti doors hung to steel frames:					
8	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			
9	44mm 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	9			
10	44mm Framed batten door 900 x 2100mm 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 (D3)					
		No	1			
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	Section No. 4					
	Bill No. 6 CARPENTRY AND JOINERY					
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.7				
	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	11		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	1		
3	Indicator lockset	No	10		
	DOORSTOPS				
	Approved:				
4	38mm Diameter rubber door stop plugged	No	11		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Carried to Collection Section No. 4			R	
	F9 Bill No. 7 IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Push Plate				
6	TS73-SS-FP or other approved 60 X 225 X 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.				
		No	1		
	"Vaal Paragon" or similar approved:				
7	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.				
		No	1		
8	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.				
		No	1		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar:				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	10		
	Stainless steel:				
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
	Carried to Collection			R	
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	Bill No. 7 IRONMONGERY				
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1	SECTION 3				
	BILL NO.8				
	METALWORK				
	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 half brickwalls:				
1	Frame for door 813 x 1883mm high	No	9		
2	Frame for door 900 x 2100mm high	No	1		
	1,6mm Double rebated frames suitable for one brickwalls:				
3	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
4	Window type NE1, 533 x 654mm high including burglar bars	No	10		
5	Window type NE 7,1022 x 654mm high including burglar bars	No	5		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
6	Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2		
	Carried Forward to Summary of Section No. 4 Section No. 4			R	
	F9 Bill No. 8 METALWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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	SECTION 3				
	BILL NO. 9				
	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	33		
	WALL PLASTER				
	Cement Plaster on walls				
2	On Interior sides of Pit walls	m2	39		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	33		
4	On interior sides of plastered Pit Walls	m2	39		
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	F9 Bill No. 9 DIASTERING				
	PLASTERING Proposed By: SPSOS QUANTITY SUBVEYORS INTYLLED				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	11		
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)	No	11		
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	2		
	INSPECTION BY ENVIRO-LOO/SUPPLIER				
4	Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.		Item		
	Section No. 4			R	
	F9 Bill No. 10 PLUMBING AND DRAINAGE				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	White glazed fireclay or vitreous china coupling with				
	SABS specification 497 in				
5	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxy silicone sealant where basin meets wall.				
	 Material: Vitreous China Basin code: (ATLBASWHU0500UE) Height: 500mm 				
	Width: 410mm Depth: 480mm.	No	2		
6	Elbow taps	No	2		
	<u>FITTINGS</u>				
7	19mm chrome plated push button taps to wash troughs	No	2		
	Sundries				
8	Stainless-steel 24L SHE-BIN plugged to walls	No	2		
	Carried to Collection			R	
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	F9 Bill No. 10				
	PLUMBING AND DRAINAGE Proposed By: SPSOS QUANTITY SUBVEYORS (PTVL) TD				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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	SECTION 3			
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	4mm Obscure safety glass:			
1	Panes not exceeding 0,1 m2 m2	4		
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	Bill No. 11 GLAZING			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

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	SECTION 3					
	BILL NO. 12					
	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	n2	10			
	ON WOOD					
	"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.					
2	On Doors (Internal)	n2	42			
	Three coats matt varnish					
3	On doors (External)	n2	14			
	Carried to Collection			R		_
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
4	On door frames	m2	12		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	9		
7	On windows with burglar bars	m2	5		
	Carried to Collection			R	<u> </u>
	Section No. 4 F9 Bill No. 12 PAINTWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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	SECTION 3				
	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	105		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep:				
3	Trenches	m3	10		
4	Pit	m3	41		
5	For aprons thickenning	m3	6		
	Extra over trench and hole excavations in earth for excavation:				
6	Soft rock	m3	5		
7	Hard rock	m3	5		
	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	49		
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	EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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	Risk of collapse of excavations:				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	56		
	Keeping excavations free of water:				
10	Keeping excavations free of water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:				
11	Under floors, steps, pavings, etc.	m3	6		
12	Backfilling to trenches, holes, etc.	m3	1		
	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	38		
14	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	46		
15	Compaction of ground surface in pit 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	35		
	Prescribed density tests on filling:				
16	Modified AASHTO Density tests	No	5		
	SOIL POISONING				
	Carried to Collection			R	
	Section No. 5 SMD6 Bill No. 1 EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				
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	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	38		
18	To bottom of concrate aprons	m2	46		
19	To bottoms and sides of trenches, etc.	m2	42		
20	To bottom and sides of pit	m2	77		
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	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	6			
2	2Aprons cast in panels	m3	6			
3	Ramp	m3	1			
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	8			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	44			
	REINFORCED CONCRETE, ETC					
	25Mpa/19mm Concrete:					
6	Surface beds	m3	6			
7	Concrete base Slab in Pit	m3	5			
	CONCRETE SUNDRIES					
						_
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	CONCRETE, FORMWORK AND REINFORCEMENT					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

	Finishing top surfaces of concrete smooth with a steel trowel:				
8	Suface beds, slabs, etc.	m2	36		
	Finishing top surfaces of concrete smooth with a wood float:				
9	Aprons and pavings to falls	m2	44		
	TEST CUBES				
10	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		
	FORMWORK				
	Rough formwork to sides:				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	59		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett):				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	83		
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	SECTION 3		
	BILL NO.3		
	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		
II	Carried to Collection Section No. 5 SMD6 Bill No. 3	R	
	MASONRY		
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD		

	Pointing:				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those 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	57		
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
2	Extra over brickwork for face brickwork in foundation	m2	4		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
3	Half brickwork for face brick walls pointed both sides	m2	26		
4	One brickwork for face brick walls pointed both sides	m2	99		
5	Extra over brickwork for face brickwork in beamfilling	m2	10		
6	Fair raking and cutting	m	16		
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	SMD6 Bill No. 3 MASONRY				
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				,	n	,
	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:					
7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	15			
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	12			
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3			
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	4			
	BRICKWORK SUNDRIES					
	Brick reinforcement:					
10	75mm Wide reinforcement built in horizontally	m	39			
11	150mm Wide reinforcement built in horizontally	m	671			
	Turning pieces:					
12	220mm Wide turning piece to lintel etc	m	14			
	Galvanised wire ties etc.:					
13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	20			
	Prestressed fabricated lintels:					
14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	12			
	Ventilation bricks:					
15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	16			
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Item No			Quantity	Rate	Amount
1	SECTION 3				
	BILL NO.4				
	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	7		
	One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	32		
3	Aprons and ramps	m2	40		
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
4	Around steel windows and door frames.	m	12		
	Carried Forward to Summary of Section No. 5			R	
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Item No			Quantity	Rate	Amount	
	SECTION 3	l.				
	BILL NO.5					
	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" chromadek profile roof sheeting fixed to timber purlins (elsewhere):					
1	Roof covering with pitch not exceeding 25 degrees	m2	61			
	Sundries:					
2	12" Thermal resistance sisalition laid on purlins	m2	61			
	RAINWATER DISPOSAL					
	Aluzink seamless metal gutters:					
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	20			
4	Extra over for closed ends	No	2			
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7			
6	Extra over rainwater pipe for eaves offset	No	2			
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	44		
2	76 x 38mm Wall plates	m	37		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	66		
	Sundries:				
4	Two coats creosote on sawn timbers	m2	33		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	27		
6	Hurricane clips	No	34		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	39		
	DOORS, ETC.				
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	Wrought meranti doors hung to steel frames:					
8	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			
9	44mm 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			
10	44mm Framed batten door 900 x 2100mm 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 (D3)					
		No	1			
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	Bill No. 6 CARPENTRY AND JOINERY					
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.7				
	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	8		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	1		
3	Indicator lockset	No	7		
	DOORSTOPS				
	Approved:				
4	38mm Diameter rubber door stop plugged	No	8		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Operated to Option there				
	Section No. 5			R	
	SMD6 Bill No. 7				
	IRONMONGERY				
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	Push Plate				
6	TS73-SS-FP or other approved 60 X 225 X 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.				
		No	1		
	"Vaal Paragon" or similar approved:				
7	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.				
		No	1		
8	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.				
		No	1		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar:				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	6		
	Stainless steel:				
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
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	SMD6 Bill No. 7 IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.8				
	METALWORK				
	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 half brickwalls:				
1	Frame for door 813 x 1883mm high	No	6		
2	Frame for door 900 x 2100mm high	No	1		
	1,6mm Double rebated frames suitable for one brickwalls:				
3	Frame for door 813 x 2032mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
4	Window type NE1, 533 x 654mm high including burglar bars	No	10		
5	Window type NE 7,1022 x 654mm high including burglar bars	No	5		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
6	Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2		
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	METALWORK				
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	SECTION 3				
	BILL NO. 9				
	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	38		
	WALL PLASTER				
	Cement Plaster on walls				
2	On Interior sides of Pit walls	m2	44		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	38		
4	On interior sides of plastered Pit Walls	m2	44		
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	8		
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)	No	8		
3	Enviro-loo system - Urinal complete with 1 pan (Code FG 862B), including all components as per specification	No	1		
4	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 mm covered with "bidim"	No	1		
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	INSPECTION BY ENVIRO-LOO/SUPPLIER				
5	Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.		Item		
	White glazed fireclay or vitreous china coupling with SABS specification 497 in				
6	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxy silicone sealant where basin meets wall. • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm • Depth: 480mm.	No	1		
7	Elbow taps	No	1		
	<u>FITTINGS</u>				
8	19mm chrome plated push button taps to wash troughs	No	1		
	Carried to Collection			R	
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	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	4mm Obscure safety glass:			
1	Panes not exceeding 0,1 m2 m2	4		
	Carried Forward to Summary of Section No. 5 Section No. 5		R	
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	SECTION 3	I.			
	BILL NO. 12				
	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	10		
	ON WOOD				
	"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
2	On Doors (Internal)	m2	28		
	Three coats matt varnish				
3	On doors (External)	m2	14		
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
4	On door frames	m2	6		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	7		
7	On windows with burglar bars	m2	5		
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	SECTION 3				
	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	95		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	95		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep:				
3	Trenches	m3	10		
4	Pit	m3	38		
5	For aprons thickenning	m3	4		
	Extra over trench and hole excavations in earth for excavation:				
6	Soft rock	m3	5		
7	Hard rock	m3	5		
	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	47		
	Carried to Collection			R	
	Section No. 6 M5				
	Bill No. 1 EARTHWORKS				
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1		1	. 1		11	1
	Risk of collapse of excavations:					
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	54			
	Keeping excavations free of water:					
10	Keeping excavations free of water other than subterranean water		Item			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:					
11	Under floors, steps, pavings, etc.	m3	5			
12	Backfilling to trenches, holes, etc.	m3	1			
	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	33			
14	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	41			
15	Compaction of ground surface in pit 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	30			
	Prescribed density tests on filling:					
16	Modified AASHTO Density tests	No	5			
	SOIL POISONING					
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	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	41		
19	To bottoms and sides of trenches, etc.	m2	37		
20	To bottom and sides of pit	m2	72		
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	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	4			
2	2Aprons cast in panels	m3	4			
3	Ramp	m3	1			
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	8			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	39			
	REINFORCED CONCRETE, ETC					
	25Mpa/19mm Concrete:					
6	Surface beds	m3	5			
7	Concrete base Slab in Pit	m3	4			
	CONCRETE SUNDRIES					
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	M5 Bill No. 2 CONCRETE FORMWORK AND REINFORCEMENT					
	CONCRETE, FORMWORK AND REINFORCEMENT Propaged By: SPSOS QUANTITY SUPVEYORS IPTYLL TO					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

	Finishing top surfaces of concrete smooth with a steel trowel:				
8	Suface beds, slabs, etc.	m2	31		
	Finishing top surfaces of concrete smooth with a wood float:				
9	Aprons and pavings to falls	m2	39		
	TEST CUBES				
10	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		
	<u>FORMWORK</u>				
	Rough formwork to sides:				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	39		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	54		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett):				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	78		
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	SECTION 3				
	BILL NO.3				
	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				
	Carried to Collection		R		_
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	MASONRY				
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	Pointing:				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those 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	47		
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
2	Extra over brickwork for face brickwork in foundation	m2	3		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
3	Half brickwork for face brick walls pointed both sides	m2	21		
4	One brickwork for face brick walls pointed both sides	m2	94		
5	Extra over brickwork for face brickwork in beamfilling	m2	7		
6	Fair raking and cutting	m	16		
					+
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	M5 Bill No. 3 MASONRY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Brick-on-edge header course coping, sills, etc. of face				
	bricks (purchase price of R 7 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	12		
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	9		
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3		
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	4		
	BRICKWORK SUNDRIES				
	Brick reinforcement:				
10	75mm Wide reinforcement built in horizontally	m	29		
11	150mm Wide reinforcement built in horizontally	m	651		
	Turning pieces:				
12	220mm Wide turning piece to lintel etc	m	12		
	Galvanised wire ties etc.:				
13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	19		
	Prestressed fabricated lintels:				
14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	10		
	Ventilation bricks:				
15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	12		
	Carried to Collection			R	
	Section No. 6				
	M5 Bill No. 3 MASONRY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Section No. 6				
Bill No. 3				
MASONRY				
COLLECTION				
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Bill No. 3 MASONRY Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.4				
	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	5		
	One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	27		
3	Aprons and ramps	m2	35		
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
4	Around steel windows and door frames.	m	9		
	Carried Forward to Summary of Section No. 6 Section No. 6			R	
	M5 Bill No. 4				
	WATERPROOFING				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.5				
	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" chromadek profile roof sheeting fixed to timber purlins (elsewhere):				
1	Roof covering with pitch not exceeding 25 degrees	m2	55		
	Sundries:				
2	12" Thermal resistance sisalition laid on purlins	m2	55		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	14		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7		
6	Extra over rainwater pipe for eaves offset	No	2		
	Carried to Collection Section No. 6			R	
	M5 Bill No. 5 ROOF COVERINGS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

7	Ditto ,for shoe	2		
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	Carried to Collection		R	
	Section No. 6			
	M5 Bill No. 5			
	ROOF COVERINGS			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

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Bill No. 5				
ROOF COVERINGS				
COLLECTION				
Total Brought Forward from Page No.	Page No 146 147		Amount	
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Section No. 6 M5 Bill No. 5 ROOF COVERINGS Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	34		
2	76 x 38mm Wall plates	m	27		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	56		
	Sundries:				
4	Two coats creosote on sawn timbers	m2	27		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	24		
6	Hurricane clips	No	31		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	36		
	DOORS, ETC.				
	Section No. 6			R	
	M5 Bill No. 6 CARPENTRY AND JOINERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Wrought meranti doors hung to steel frames:					
8	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	2			
9	44mm 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	5			
10	44mm Framed batten door 900 x 2100mm 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 (D3)					
		No	1			
	Section No. 6	on		R		<u></u>
	M5 Bill No. 6					
	CARPENTRY AND JOINERY					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY]	LTD				
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CARPENTRY AND JOINERY			
COLLECTION			
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M5 Bill No. 6			
CARPENTRY AND JOINERY			
Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

Item No			Quantity	Rate	Amount
	SECTION 3	ļ			
	BILL NO.7				
	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	7		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	1		
3	Indicator lockset	No	6		
	DOORSTOPS				
	Approved:				
4	38mm Diameter rubber door stop plugged	No	7		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
	Comicel to Callection			Б	
	Section No. 6			R	
	M5 Bill No. 7 IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Push Plate				
6	TS73-SS-FP or other approved 60 x 225 x 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.				
		No	1		
	"Vaal Paragon" or similar approved:				
7	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.				
		No	1		
8	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.				
		No	1		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar:				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	5		
	Stainless steel:				
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
	Carried to Collection			R	
	Section No. 6				
	M5 Bill No. 7 IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.8				
	METALWORK				
	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 half brickwalls:				
1	Frame for door 813 x 1883mm high	No	5		
2	Frame for door 900 x 2100mm high	No	1		
	1,6mm Double rebated frames suitable for one brickwalls:				
3	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
4	Window type NE1, 533 x 654mm high including burglar bars	No	9		
5	Window type NE 7,1022 x 654mm high including burglar bars	No	4		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
6	Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6				
	Bill No. 8 METALWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 9				
	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	33		
	WALL PLASTER				
	Cement Plaster on walls				
2	On Interior sides of Pit walls	m2	39		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	33		
4	On interior sides of plastered Pit Walls	m2	39		
	Carried Forward to Summary of Section No. 6			R	
	Carried Forward to Summary of Section No. 6 Section No. 6			K	
	M5 Bill No. 9 PLASTERING				
	PLASTERING Proposed By:: SPSOS QUANTITY SUBVEYORS (BTVL) TD				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

tem No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ENVIRO-LOO TOILET SYSTEMS				
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	7		
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)				
		No	7		
3	Enviro-loo system - Urinal complete with 1 pan (Code FG 862B), including all components as per specification	No	1		
4	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 mm covered with "bidim"	No	1		
	Carried to Collection			R	
	Section No. 6 M5 Bill No. 10 PLUMBING AND DRAINAGE				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	INSPECTION BY ENVIRO-LOO/SUPPLIER AT TLAKALE MASHASHANE SECONDARY SCHOOL				
5	Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.		Item		
	White glazed fireclay or vitreous china coupling with SABS specification 497 in				
	SECTION 3				
6	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxy silicone sealant where basin meets wall. • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm				
	• Depth: 480mm.	No	1		
7	Elbow taps	No	1		
	<u>FITTINGS</u>				
8	19mm chrome plated push button taps to wash troughs	No	1		
					\vdash
	Carried to Collection			R	L
	Section No. 6 M5 Bill No. 10				
	PLUMBING AND DRAINAGE				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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PLUMBING AND DRAINAGE				
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M5 Bill No. 10 PLUMBING AND DRAINAGE Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No		Quantity	Rate	Amount
1	SECTION 3			
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	4mm Obscure safety glass:			
1	Panes not exceeding 0,1 m2 m2	2 4		
	Carried Forward to Summary of Section No. 6 Section No. 6		R	
	M5 Bill No. 11 GLAZING			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

Item No			Quantity	Rate	Amount
	SECTION 3	I.			
	BILL NO. 12				
	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	10		
	ON WOOD				
	"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
2	On Doors (Internal)	m2	28		
	Three coats matt varnish				
3	On doors (External)	m2	14		
	Carried to Collection			R	
	Section No. 6 M5 Bill No. 12 PAINTWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
4	On door frames	m2	6		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	7		
7	On windows with burglar bars	m2	5		
	Carried to Collection			R	
	Section No. 6 M5 Bill No. 12 PAINTWORK				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Section No. 6				
Bill No. 12				
PAINTWORK				
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Section No. 6 M5 Bill No. 12 PAINTWORK Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

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5	ROOF COVERINGS	148		
6	CARPENTRY AND JOINERY	151		
7	IRONMONGERY	154		
8	METALWORK	155		
9	PLASTERING	156		
10	PLUMBING AND DRAINAGE	159		
11	GLAZING	160		
12	PAINTWORK	163		
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Item No			Quantity	Rate	Amount
Ì	SECTION 3				
	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	113		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	113		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep:				
3	Trenches	m3	15		
4	Pit	m3	46		
5	For aprons thickenning	m3	4		
	Extra over trench and hole excavations in earth for excavation:				
6	Soft rock	m3	6		
7	Hard rock	m3	6		
	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	56		
	Carried to Collection			R	
	Section No. 7 SFD10 Bill No. 1 EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Risk of collapse of excavations:				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	65		
	Keeping excavations free of water:				
10	Keeping excavations free of water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% ModAASHTO density:				
11	Under floors, steps, pavings, etc.	m3	6		
12	Backfilling to trenches, holes, etc.	m3	1		
	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	34		
14	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	40		
15	Compaction of ground surface in pit 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	29		
	Prescribed density tests on filling:				
16	Modified AASHTO Density tests	No	5		
	SOIL POISONING				
	Carried to Collection			R	
	Section No. 7 SFD10 Bill No. 1 EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Soil insecticide				
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	32		
18	To bottom of concrate aprons	m2	43		
19	To bottoms and sides of trenches, etc.	m2	50		
20	To bottom and sides of pit	m2	68		
	Carried to Collection			R	
	Section No. 7 SFD10				
	Bill No. 1 EARTHWORKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] L	TD			

Section No. 7				
Bill No. 1				
EARTHWORKS				
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Item No			Quantity	Rate	Amount	
	SECTION 3					
	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	6			
2	2Aprons cast in panels	m3	4			
3	Ramp	m3	1			
4	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	5			
5	Thickening down apron on edge 110mm deep x 200mm wide	m	44			
	REINFORCED CONCRETE, ETC					
	25Mpa/19mm Concrete:					
6	Surface beds	m3	6			
7	Concrete base Slab in Pit	m3	4			
	CONCRETE SUNDRIES					
	Comind to Callegation			Б		-
	Section No. 7			R		=
	SFD10 Bill No. 2 CONCRETE FORMWORK AND REINFORCEMENT					
	CONCRETE, FORMWORK AND REINFORCEMENT Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					
	Fiehaled by. Skodo QUANTITT SURVETURS [FIT] LID					

	Finishing top surfaces of concrete smooth with a steel trowel:				
8	Suface beds, slabs, etc.	m2	106		
	Finishing top surfaces of concrete smooth with a wood float:				
9	Aprons and pavings to falls	m2	43		
	TEST CUBES				
10	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		
	<u>FORMWORK</u>				
	Rough formwork to sides:				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	44		
12	Soffit of Surface bed on Pit propped up to height exceeding 1.5m high but not exceeding 3.5m high	m2	67		
	REINFORCEMENT				
	Mesh Reinforcement (measure nett):				
13	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	104		
	Carried to Collection			R	+
	Section No. 7 SFD10			ĸ	_
	Bill No. 2 CONCRETE,FORMWORK AND REINFORCEMENT				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Section No. 7				
Bill No. 2				
CONCRETE,FORMWORK AND REINFORCEMENT				
COLLECTION				
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Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL NO.3			
	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			
	Carried to Collection Section No. 7 SFD10 Bill No. 3		R	
	MASONRY			
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD			

	Pointing:				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SAMPLES				
	Samples of all masonry building units, except those 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	53		
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
2	Extra over brickwork for face brickwork in foundation	m2	4		
	SUPERSTRUCTURE				
	FACE BRICKWORK				
	Face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
3	Half brickwork for face brick walls pointed both sides	m2	39		
4	One brickwork for face brick walls pointed both sides	m2	106		
5	Extra over brickwork for face brickwork in beamfilling	m2	12		
6	Fair raking and cutting	m	10		
	Carried to Collection			R	
	Section No. 7 SFD10 Bill No. 3 MASONRY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 7000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:				
7	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	13		
	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	12		
8	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2		
9	Fair cutting and fitting around pipe exceeding 100mm diameter and not exceeding 100mm diameter.	No	7		
	BRICKWORK SUNDRIES				
	Brick reinforcement:				
10	75mm Wide reinforcement built in horizontally	m	21		
11	150mm Wide reinforcement built in horizontally	m	851		
	Turning pieces:				
12	220mm Wide turning piece to lintel etc	m	13		
	Galvanised wire ties etc.:				
13	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	26		
	Prestressed fabricated lintels:				
14	Pair of 110 x 75mm Lintels in lengths exceeding 4,5m	m	13		
	Ventilation bricks:				
15	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	16		
	Carried to Collection			R	
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.4				
	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	5		
	One layer of 250mm micron waterproof sheeting and sealed at overlaps with pressure sensitive tape:				
2	Under surface beds	m2	34		
3	Aprons and ramps	m2	38		
	"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:				
4	Around steel windows and door frames.	m	9		
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No		Ī	Quantity	Rate	Amount
	SECTION 3	1			
	BILL NO.5				
	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" chromadek profile roof sheeting fixed to timber purlins (elsewhere):				
1	Roof covering with pitch not exceeding 25 degrees	m2	65		
	Sundries:				
2	12" Thermal resistance sisalition laid on purlins	m2	65		
	RAINWATER DISPOSAL				
	Aluzink seamless metal gutters:				
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	13		
4	Extra over for closed ends	No	2		
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7		
6	Extra over rainwater pipe for eaves offset	No	2		
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

7	Ditto ,for shoe	2		
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ROOF COVERINGS				
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.6				
	CARPENTRY AND JOINERY				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	ROOFS, ETC.				
	Sawn softwood:				
1	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	70		
2	76 x 38mm Wall plates	m	31		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	71		
	Sundries:				
4	Two coats creosote on sawn timbers	m2	31		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	28		
6	Hurricane clips	No	69		
	EAVES, VERGES, ETC.				
	Pressed fibre-cement:				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	39		
	DOORS, ETC.				
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	SFD10 Bill No. 6 CARPENTRY AND JOINERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Wrought meranti doors hung to steel frames: 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 botton rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1) 44mm 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 botton rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2) No 10 44mm Framed batten door 900 x 2100mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm botton rail filled in with 22mm V-jointed one side boarding and including weatherboard (D3) No 1 Carried to Collection R Section No. 7 SFD10 Bill No. 6 CARPENTRY AND JOINERY Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD						
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 2 44mm 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 10 44mm Framed batten door 900 x 2100mm 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 (D3) No 1 Carried to Collection R Section No. 7 SFD10 Bill No. 6 CARPENTRY AND JOINERY		Wrought meranti doors hung to steel frames:				
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 10 44mm Framed batten door 900 x 2100mm 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 (D3) No 1 Carried to Collection R Section No. 7 SFD10 Bill No. 6 CARPENTRY AND JOINERY	8	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	No	2		
Section No. 7 SFD10 Bill No. 6 CARPENTRY AND JOINERY	9	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)	No	10		
Carried to Collection Section No. 7 SFD10 Bill No. 6 CARPENTRY AND JOINERY	10	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				
Section No. 7 SFD10 Bill No. 6 CARPENTRY AND JOINERY			No	1		
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		Bill No. 6				
Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD						
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	SECTION 3				
	BILL NO.7				
	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	12		
	LOCKS				
	Approved:				
2	Three lever mortice lockset	No	2		
3	Indicator lockset	No	10		
	DOORSTOPS				
	Approved:				
4	38mm Diameter rubber door stop plugged	No	12		
	LETTERS, NAMEPLATES, ETC.				
	"Union" or similar approved:				
5	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2		
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	IRONMONGERY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Push Plate				
6	TS73-SS-FP or other approved 60 X 225 X 1,6mm thick grade 304 stainless steel fixing plate with pre drilled fixing holes to suit door closer and plate to be installed on opposite side of door using dormakaba M5 or other approved male/female fixing screws.				
		No	1		
	"Vaal Paragon" or similar approved:				
7	Grab rail (Suppliers code: SR2) or other approved 32mm stainless steel rear grab rail size 670mm long x 246mm wide, fixed to wall.				
		No	1		
8	Grab rail (Suppliers code: DL2) or other approved 32mm cranked stainless steel side grab rail size 300mm x 300mm x 300mm fixed to wall.				
		No	1		
	BATHROOM FITTINGS				
	"Kimberley-Clark"or Simlilar:				
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	11		
	Stainless steel:				
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	2		
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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL NO.8				
	METALWORK				
	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 half brickwalls:				
1	Frame for door 813 x 1883mm high	No	10		
2	Frame for door 900 x 2100mm high	No	1		
	1,6mm Double rebated frames suitable for one brickwalls:				
3	Frame for door 813 x 2032mm high	No	2		
	STEEL WINDOWS, DOORS, ETC				
4	Window type NE1, 533 x 654mm high including burglar bars	No	11		
5	Window type NE 7,1022 x 654mm high including burglar bars	No	5		
	WELDED SCREENS, GATES, ETC				
	Steel gates and frames:				
6	Purpose made square hollow section mild steel security gate, size 813 x 2032mm High	No	2		
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	SECTION 3				
	BILL NO. 9				
	<u>PLASTERING</u>				
	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	38		
	WALL PLASTER				
	Cement Plaster on walls				
2	On Interior sides of Pit walls	m2	44		
	FLOOR AND WALLS SEALERS				
	Minimum two coats approved epoxy coat:				
3	On screed	m2	38		
4	On interior sides of plastered Pit Walls	m2	44		
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	SECTION 3					
	BILL NO. 10					
	PLUMBING AND DRAINAGE (PROVISIONAL)					
	SUPPLEMENTARY PREAMBLES					
	For preambles see "Specifications of materials and methods to be used - PW 371"					
	ENVIRO-LOO TOILET SYSTEMS					
1	Enviro-loo industrial system CER/ABS-V1 (Code FG-1040 STDCA/A)	No	12			
2	Enviro Loo System Model B 1040 Standard installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvred inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), 2300mmlong outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8)					
		No	12			
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	2			
	INSPECTION BY ENVIRO-LOO/SUPPLIER					
4	Two site visits to be made by the "Enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between the Department of Education Limpopo and Enviro Loo Options Limpopo.		Item			
	Carried to Collection			R		
	Section No. 7 SFD10 Bill No. 10 PLUMBING AND DRAINAGE					
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l	Wilder of the desired for the second	1	1	I	1	
	White glazed fireclay or vitreous china coupling with SABS specification 497 in					
5	Lecico Atlas 50cm basin colour White, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow Corning acetoxy silicone sealant where basin meets wall. • Material: Vitreous China • Basin code: (ATLBASWHU0500UE) • Height: 500mm • Width: 410mm					
	Depth: 480mm.	No	2			
6	Elbow taps	No	2			
	<u>FITTINGS</u>					
7	19mm chrome plated push button taps to wash troughs	No	2			
	Sundries					
8	Stainless-steel 24L SHE-BIN plugged to walls	No	2			
						_
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	SECTION 3			
	BILL NO. 11			
	GLAZING			
	SUPPLEMENTARY PREAMBLES			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	GLAZING TO STEEL WITH PUTTY			
	4mm Obscure safety glass:			
1	Panes not exceeding 0,1 m2 m2	4		
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	SECTION 3					
	BILL NO. 12					
	<u>PAINTWORK</u>					
	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	10			
	ON WOOD					
	"Plascon Velvaglo Satin" or similar approved to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.					
2	On Doors (Internal)	m2	42			
	Three coats matt varnish					
3	On doors (External)	m2	14			
	Carried to Collection			R		_
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	BIII No. 12 PAINTWORK					
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
4	On door frames	m2	12		
5	On gates (Measured over the full flat area of both sides)	m2	8		
6	On gutters and down pipes	m	9		
7	On windows with burglar bars	m2	5		
	Carried to Collection			R	
	Section No. 7 SFD10 Bill No. 12 PAINTWORK				
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Item No			Quantity	Rate	Amount
	SECTION 6				
	BILL NO. 1				
	WATER SUPPLIES				
	Class 10 HDPe type IV pipes				
1	40mm Pipes laid in and including trenches not exceeding 1m deep	m	38		
2	50mm Pipes laid in and including trenches not exceeding 1m deep	m	342		
	Extra over Class 10 HDPE type IV pipes for fittings				
3	40mm Fittings	lo	40		
4	40mm Reducer	lo	8		
5	40mm Bend	lo	16		
6	50mm Reducer	lo	8		
7	50mm Bend N	lo	16		
8	50mm Threaded adaptor	lo	6		
	Galvanised medium steel pipes with screwed and socketed joints				
9	50mm Pipes	m	29		
	Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings				
10	50mm Fittings	lo	6		
11	50mm Bush	lo	6		
12	50mm Elbow	lo	6		
	Carried to Collection			D	
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	Galvanised medium normalized mild steel piping				
13	25mm Standpipes	m	9		
	Extra over galvanised piping for galvanized mild steel fittings				
14	25mm Fittings	No	2		
	Valve boxes				
15	600 x 600mm Stopcock box complete as per detail drawing "Valve chamber" including 400 x 400 cast iron cover and frame depth not exceeding 750mm internally.	No	1		
	<u>Sundries</u>				
16	300 x 300 x 50mm Precast concrete pipeline marker Slab set in Ground	No	1		
17	Cutting into existing water pipe	No	1		
	Carried to Collection			R	
	Section No. 8 EXTERNAL WORKS				
	Bill No. 1 WATER SUPPLIES				
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Item No			Quantity	Rate	Amount
	SECTION 6				
	BILL NO. 2				
	ELEVATED WATER TANKS				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	Excavation in earth not exceeding 2m deep				
1	Holes	m3	20		
	Extra over trench and hole excavations in earth for excavation in				
2	Soft rock	m3	4		
3	Hard rock	m3	4		
	Extra over all excavations for carting away				
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	16		
	Risk of collapse of excavations				
5	Sides of trench and hole excavation not exceeding 1,5m deep	m2	88		
	Keeping excavations free of water.				
6	Keeping excavations free of water.		Item		
	Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93 % Mod AASHTO density				
7	Backfilling to trenches, holes, etc.	m3	4		
	Carried to Collection			R	
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	<u>Soil insecticide</u>				
8	To bottoms and sides of trenches, etc.	m2	88		
	One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions.				
9	Under surface beds	m2	24		
	15Mpa/19mm Concrete				
10	Blinding	m3	4		
	25Mpa/19mm Concrete				
11	Bases	m3	20		
12	Platform surface beds cast in panels	m3	32		
	Finishing top surfaces of concrete smooth with a wood float				
13	Platform surface beds	m2	24		
	Finishing top surfaces of concrete smooth with a wood float				
14	On top of bases	m2	24		
	"Jojo" or equal approved SANS PVC water tanks				
	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	8		
	Galvanized medium normalized mild steel piping				
16	25mm Pipes	m	140		
17	50mm Pipes	m	345		
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	Carried to Collection Section No. 8			R	+
	EXTERNAL WORKS Bill No. 2				
	WATER TANKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

	Extra over galvanised mild steel water supply pipes for Fittings				
18	25mm Fittings.	No	32		
19	50mm Elbows.	No	32		
20	50mm Union.	No	32		
21	50mm Reducing bush.	No	8		
	"Cobra Watertech" or other equal approved				
22	15mm "Cobra Ref. 108LK" brass hose biptap.	No	8		
23	50mm Fullway gate valve	No	8		
	TESTING				
	Testing of water tanks				
24	Testing for tank		Item		
	The following in structural steel tank stands				
	Welded steel columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete				
25	40 x 40 x 3mm Hot rolled angle section bracing	kg	354		
26	40 x 40 x 6mm Hot rolled angle section horizontal struts	kg	1 232		
27	80 x 80 x 6mm Hot rolled angle section columns, base plates and pipe clamps	kg	3 232		
28	125 x 75 x 10mm Hot rolled angle section floor beams	kg	1 456		
29	125 x 75 x 20 x 2.5mm Cold rolled lipped channel floor joists	kg	2 012		
30	30 x 6mm Cold rolled flat section bracing	kg	1 732		
31	High strength friction grip bolts	kg	176		
	Carried to Collection			R	<u></u>
	Section No. 8 EXTERNAL WORKS Bill No. 2 WATER TANKS				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

32	10mm Diameter U-shaped holding down bolt 250mm girth fixed to columns	No	264		
33	12mm Diameter L-shaped threaded anchor bolt 350mm girth embedded in top of concrete	No	88		
	PAINTWORK TO NEW WORK				
	ON METAL				
	Undercoat and minimum 2 coat gloss enamel				
34	Paint to structural steel	m	1 680		
	Carried to Collection			R	
	Section No. 8 EXTERNAL WORKS Bill No. 2 WATER TANKS				
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Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				

Item No			Quantity	Rate	Amount	
	SECTION 6					
	BILL NO. 4					
	PAVED WALKWAY					
	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	258			
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	258			
	Open face excavation in earth over sloping site					
3	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep	m3	39			
	Extra over all excavations for carting away					
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	39			
	Earth filling supplied by the contractor under parking areas, roadways, etc					
5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	77			
	Carried to Collection			R		
	Section No. 8 EXTERNAL WORKS Bill No. 3 PAVED WALKWAY					_
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					

	Compaction of surfaces				
6	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	258		
	Soil poisoning				
7	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in theproportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m¦on cleared ground	m2	258		
	60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:				
8	Paving to toilet areas etc to falls	m2	258		
9	Fig. 12 kerbs to sides of paving	m	410		
10	15Mpa/19mm unreinforced concrete in haunching	m3	18		
	Carried to Collection			R	
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	EXTERNAL WORKS Bill No. 3 PAVED WALKWAY				
	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD				
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Item No			Quantity	Rate	Amount	
	SECTION 6					
	BILL NO. 5					
	STORMWATER CONTROL					
	SUPPLEMENTARY PREAMBLES					
	For preambles see "Specifications of materials and methods to be used - PW 371"					
	<u>Earthworks</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	120			
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, paving, etc	m2	120			
3	Extra over surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	23			
4	Extra over trench or hole for excavations in soft rock	m3	8			
5	Extra over trench or hole for excavations in hard rock	m3	5			
6	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	120			
7	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1m2	m2	120			
	Carried to Collection			R		
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	Prepared By: SRSQS QUANTITY SURVEYORS [PTY] LTD					
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	Reinforced Concrete				
8	25Mpa/19mm Mass concrete in V-shaped channel 2000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, with and including one layer of ref.193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	120		
9	Extra for fair open end	No	8		
10	Extra for fair stopped end	No	8		
11	Extra for angle intersection	No	18		
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	FENCING				
	SUPPLEMENTARY PREAMBLES				
	For preambles see "Specifications of materials and methods to be used - PW 371"				
	EXCAVATIONS				
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
1	Holes	m3	157		
	Extra over trench and hole excavations in earth for excavation in				
2	Soft rock	m3	46		
3	Hard rock	m3	29		
	Extra over all excavations for carting away				
4	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	157		
	Risk of collapse of excavations				
5	Sides of trench and hole excavations not exceeding 1,5m dee	m2	1 238		
	Keeping excavations free of water				
6	Keeping excavations free of water		Item		
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	Soil insecticide				
7	To bottoms and sides of trenches etc	m2	1 395		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
8	Bases	m3	157		
	FENCING				
	Steel palisade as per attached drawings complete,joined to brick columns and brickwalls, the fence painted on both sides (colour to architects)				
9	Galvanised Steel palisade fence 1800mm high with pales formed of 30 x 30 x 2.0mm angle iron paling 1.8m high with devil fork effect on top and bottom with the dove tail fixed to 2,4m high posts size 76 x 76 x 2mm square tubing with closing pyramid caps on top posts at 3m centres min, with 40 x 40 x 2mm angle iron bearers placed 300mm from top paling and 300mm from bottom paling welded flash with the back of the posts as per manufacturers instructions fixed in position as indicated on the drawings	m	1 238		
	GATES, ETC.				
10	Sliding galvanised palisade gate of 75 x 75 mm mild steel framing size 5000 x 1800mm high vertically with spear head finish, each leaf with formed with bottom and top horizontal bearers of 60 x 30 x 2-2.5mm lipped and slotted channels fixed in position aligned with the brick plinth with 40 x 40 x 2.5-3mm hot rolled angles used for palisade palling slotted and welded at 100mm centres into the horizontal members with and including a mild steel locking system consisting of mild steel plate and mild steel bolt lock including padlock with keys (LI)	No	1		
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11	Pedestrain galvanised palisade gate of 60 x 60mm mild steel framing size 1500 x 1800mm high vertically with spear head finish, each leaf with formed with bottom and top horizontal bearers of 60 x 30 x 2-2.5mm C-channel and slotted channels fixed in position welded to 35 x 35mm galvanised steel post and with 40 x 40 x 2.5-3mm hot rolled angles used for palisade palling slotted and welded at 100mm centres into the horizontal members with and including a mild steel lockimg system consisting of mild steel plate and mild steel bolt lock including padlock with keys and gate handles fixed to rectangular 1mm plate with swivel castors on opening sections and barrel bolts into paving	No	2		
	PAINTWORK ETC TO NEW WORK				
	ON METAL				
	Plascon Super Universal Enamel to exterior new galvanised(NW 620). Surface to be clean and dry. Apply Plascon Galvanised Iron Cleaner (GIC 1) to all bare galvanised areas. Rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water-free. Prime with one coat of Galvanised Iron Primer (GIP 1) and finish with two coats of Universal Enamel (NY 1/G)				
12	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area) (LI)	m2	4 456		
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	Sub Total (A)		R		
	Sub Total (B)		R		
	Provide 10% (TEN PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not required		R		
	Sub Total (C)		R		_
	Add Value Added Tax		R		
	Carried to Form of Tender		R		
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