

**BORELETSANE PRIMARY SCHOOL
COMPLETION CONTRACT
LDOE 2023/24 WATER & SANITATION PROGRAMME**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>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</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>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</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			R

	Brought Forward		R	
	<p>PREAMBLES FOR TRADES</p> <p>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</p> <p>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</p> <p>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</p>			
	<p>GENERAL</p> <p>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</p>			
	<p>SECTION A - PRINCIPAL BUILDING AGREEMENT</p> <p>Definitions (A1)</p> <p>1 Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p>		Item	
	<p>Objective and Preparation (A2 to A14)</p> <p>2 Offer acceptance and performance (clause 2)</p> <p>F:..... V:..... T:.....</p>		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:.....	Item		
8	Works risk (clause 8) F:..... V:..... T:.....	Item		
9	Indemnities (clause 9) F:..... V:..... T:.....	Item		
10	Works insurances (clause 10) F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11) F:..... V:..... T:.....	Item		
12	Effecting insurance (clause 12) F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14) F:..... V:..... T:.....	Item		
<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
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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	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		
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		
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22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item		
	<u>Completion (A24-A30)</u>			
24	Practical completion (clause 24) F:..... V:..... T:.....	Item		
25	Works completion (clause 25) F:..... V:..... T:.....	Item		
26	Final completion (clause 26) F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27) F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29) F:..... V:..... T:..... 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		
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30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
	<u>Payment (A31 - A35)</u>			
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:..... 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		
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	Item		
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	The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account		
35	Payment to other parties (clause 35) F: V: T:	Item	
36	<u>Cancellation (A36-A39)</u> Cancellation by employer - contractor's default (clause 36) F: V: T:	Item	
37	Cancellation by employer - loss and damage (clause 37) F: V: T:	Item	
38	Cancellation by contractor - employer's default (clause 38) F: V: T:	Item	
39	Cancellation - cessation of the works (clause 39) F: V: T:	Item	
40	<u>Dispute (A40)</u> Dispute Settlement (clause 40) F: V: T:	Item	
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	<u>Substitute Provisions (A41)</u>			
41	<p>State clauses (Clause 41)</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>	Item		
	<u>THE SCHEDULE</u>			
	<p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>			
42	<p>Pre-tender information (clause 42)</p> <p>F:..... V:..... T:.....</p>	Item		
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>			
	42.1.1 Employer: THE MVULA TRUST			
	42.1.2 Principal Agent: Clear Water Consulting Engineers			
	<u>42.2 CONTRACT DETAILS</u>			
	42.2.1 Works Description: Construction of sanitation facilities			
	42.2.2 Site Description: as per the infomation on the tender data			
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42.2.3 Work or installations by direct contractors: N/A			
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only Yes			
42.2.5 Date on which possession of the site is intended to be given: 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: 7 DAYS			
42.2.7 For the works as a whole . Intended date of practical completion and the penalty per calendar day Intended Date of Practical Completion: <i>As per the information provided in the Tender Data</i> Penalty Amount: <i>The penalty per calendar day shall be 7.5 cents per R100 of the Tendered Amount (inclusive of value added tax)</i>			
42.2.8 For the works in sections : Intended date of practical completion and the penalty per calendar day N/A			
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42.2.9 The law applicable to this agreement shall be that of <i>South Africa (country)</i>			
42.3 INSURANCES			
42.3.1 Contract works insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R Contract Amount + 10.00 %</i> <i>With a deductible of - to be determined by the contractor</i>			
42.3.2 Supplementary insurance is required <i>No</i>			
42.3.3 Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R 5 000 000-00</i> <i>With a deductible of - to be determined by the contractor</i>			
42.4 DOCUMENTS			
42.4.1 Waivers of contractors lien or right of continuing possession is required <i>Yes</i>			
42.4.2 Number of construction document copies to be supplied to the contractor free of charge: <i>3 Number of</i>			
42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: <i>"Standard System of Measuring Builders' Work"</i>			
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42.4.4	On acceptance of the tender the bills of quantities/lump sum document is to be submitted within 5 working days <i>The priced bills of quantities must be handed in with the tender</i>		
42.4.5	JBCC Engineering General Conditions are to be included in the contract documents : No		
42.4.6	The contract value is to be adjusted using escalation adjustment indices 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 Employer		
<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>		
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item	
	<u>Documents (B2)</u>		
44	Checking of documents (B2.1) F:..... V:..... T:.....	Item	
45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A	
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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		
49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
50	Defined works area (B3.1) F:..... V:..... T:.....	Item		
<u>The site (B3)</u>				
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.			
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	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		
54	Services - unknown (B3.8) F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9) F:..... V:..... T:.....	Item		
56	Articles of value (B3.10) F:..... V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
57	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
58	Management of the works (B4.1) F:..... V:..... T:.....	Item		
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
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60	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
63	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
64	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
	<u>Temporary works and plant (B6)</u>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
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68	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
69	Advertising (B6.3) F:..... V:..... T:.....	Item		
70	Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:.....	Item		
71	Main notice board (B6.5) F:..... V:..... T:.....	Item		
72	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	N/A		
	<u>Temporary services (B7)</u>			
73	Location (B7.1) F:..... V:..... T:.....	Item		
74	Water (B7.2) Option [A] shall apply F:..... V:..... T:.....	Item		
75	Electricity (B7.3) Option [A] shall apply F:..... V:..... T:.....	Item		
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76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
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		
	<u>Financial aspects (B10)</u>			
82	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
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83	Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:.....		Item	
84	Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:.....		Item	
85	Payment certificate cash flow (B10.4) F:..... V:..... T:.....		Item	
<u>General (B11)</u>				
86	Protection of works (B11.1) F:..... V:..... T:.....		Item	
87	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....		Item	
88	Security of the Works (B11.3) F:..... V:..... T:.....		Item	
89	Notice before covering work (B11.4) F:..... V:..... T:.....		Item	
90	Disturbance (B11.5) F:..... V:..... T:.....		Item	
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91	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
92	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
93	Vermin (B11.8) F:..... V:..... T:.....	Item		
94	Overhand work (B11.9) F:..... V:..... T:.....	Item		
95	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
96	As built information (B11.11) F:..... V:..... T:.....	Item		
97	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
98	Schedule of variables (B12) Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No			
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12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No			
12.1.3 Interest of agents (B2.4)			
12.1.4 Defined works area (B3.1)			
12.1.5 Geotechnical investigation (B3.2) N/A			
12.1.6 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			
12.1.11 Inspection of adjoining properties (B3.11)			
12.1.12 Enclosure of the works (B6.2)			
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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 for meetings to be held on site. The minimum size of the office shall be 4 x 4 x 2,70m high internally with concrete floor,insulated ceiling and roof. The office shall be suitably ventilated, equipped with electric lighting and fitted with table, six (6) chairs, one (1) pinning board 2,40 x 1,20m high, one (1) writing board 2,40 x 1,20m high and a set of ten (10) aluminium "Ozafile" drawing hangers complete with stand. The office shall be kept clean and fit for use at all times			
12.1.14 Main notice board (B6.5) YES The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m high, constructed of suitable boarding with flat smooth surface on a suitable square tubular steel sub-frame and fixed to and including a suitable supporting structure of timber or tubular posts and braces. The exact extent of the details, colour scheme and wording will be provided by the principal agent on the day of the site handover.			
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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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		
<u>Post tender information (B12.2)</u>			
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		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
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			
99	Site instructions Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor F:..... V:..... T:.....	Item	
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100	Black economic empowerment and training F:..... V:..... T:.....	Item		
101	Proprietary branded products F:..... V:..... T:.....	Item		
102	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:..... The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item		
103	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor	Item		
104	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

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	Brought Forward		R	
105	Plant record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week	Item		
106	Guarantees F:..... V:..... T:..... 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	Item		
107	Overtime F:..... V:..... T:..... Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item		
	Carried Forward		R	
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Brought Forward	Item	R
108 Co-operation of contractor for cost management F:..... V:..... T:..... 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		
109 Occupational Health and Safety Specification F:..... V:..... T:.....		
Carried Forward	Item	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL		

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<p style="text-align: center;">Brought Forward</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>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.</p> <p>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.</p> <p>The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>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.</p> <p>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.</p>	<p>R</p>
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>	<p>R</p>

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	Brought Forward		R	
110	Occupational Health and Safety Specification F:..... V:..... T:..... Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines	Item		
111	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
112	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
113	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of reflective vests	Item		
114	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hard hats	Item		
115	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	Provision of protective footwear			
116	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of earplugs			
117	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of dust masks			
118	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of gloves			
119	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of high visibility overalls to SARTSM Chapter 13 Level 3			
120	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Provision of SANS approved ear defenders			
121	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

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	Brought Forward		R	
122	Provision of face masks (Covid -19) F:..... V:..... T:..... Provision of face shields (Covid -19)	Item		
123	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of gloves (Covid -19)	Item		
124	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid -19)	Item		
125	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)	Item		
126	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)	Item		
127	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL			

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	Brought Forward		R
128	<p>Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
129	<p>Provision of signage, including Covid -19 related signage</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
130	<p>Provision of full time construction health and safety officer (SACPCMP Registered)</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
131	<p>Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
132	<p>Medical screenings, examinations, etc in terms of Covid-19 regulations</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
133	<p>Induction training, including Covid-19 training</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>		

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	Brought Forward		R	
134	<p>Provision of first aid boxes to GSR requirements</p> <p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc</p>	Item		
135	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Submission of health and safety file</p>	Item		
136	<p>HIV/AIDS Awareness</p> <p>F:..... V:..... T:.....</p> <p>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.</p> <p>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.</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

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Brought Forward	R
<u>SUMMARY OF CATEGORIES</u>	
Category : Fixed R.....	
Category : Value R.....	
Category : Time R.....	
Carried to Final Summary	
Section No. 1	R
PRELIMINARIES AND GENERAL	
Bill No. 1	
PRELIMINARIES AND GENERAL	

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. 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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 2km to store and handed over to the employer</p> <p>Doors, fanlights, windows, 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 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</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLITIONS</p>			R

Brought Forward				R
	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			
	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 AND ALTERATIONS</u>				
<u>REMOVAL OF EXISTING WORK</u>				
	<u>Breaking up and removing unreinforced concrete</u>			
1	85mm Thick surface beds aprons	m2	20	
	<u>Breaking down and removing brickwork etc</u>			
2	One brick wall in facebrick	m2	2	
	<u>Taking out and removing doors from steel frames</u>			
3	Timber single door not exceeding 2,5m ²	No	10	
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>			
4	40mm Granolithic from floors "Labour Intensive"	m2	75	
	<u>Search and find connection points on pipes on earth including excavations and connecting new pipes</u>			
5	15mm Copper pipes	No	10	
		Carried Forward		R
Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLITIONS				

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		Brought Forward			R	
6	50mm PVC pipes		No	10		
7	110mm PVC pipes		No	10		
		Carried to Final Summary			R	
Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS AND DEMOLITIONS						

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Item No		Quantity	Rate	Amount
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>EXCAVATION,FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	For aprons thickening	m3	2	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
2	Soft rock	m3	1	
3	Hard rock	m3	1	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	1	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	1	
	<u>Keeping excavations free of water.</u>			
6	Keeping excavations free of water other than subterranean water			Item
	<u>Compaction of surfaces</u>			
7	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	22	
		Carried Forward		
	Section No. 3 BUILDING WORKS -FD1 Bill No. 1 EARTHWORKS			R

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	Brought Forward		R	
	<u>Prescribed density tests on filling</u>			
8	Modified AASHTO Density tests	No	5	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide</u>			
9	To bottom of concrete aprons	m ²	22	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS -FD1 Bill No. 1 EARTHWORKS			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Aprons cast in panels	m3	2	
2	Thickening down apron on edge 110mm deep x 200mm wide	m	23	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3	Aprons and pavings to falls	m2	22	
	<u>TEST CUBES</u>			
4	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	3	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides:</u>			
5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	23	
	<u>REINFORCEMENT</u>			
		Carried Forward		
	Section No. 3 BUILDING WORKS -FD1 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			R

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	Brought Forward		R	
	<u>Mesh Reinforcement (measure nett)</u>			
6	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	22	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 BUILDING WORKS -FD1 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.3</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>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.</p> <p>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.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 3 BUILDING WORKS -FD1 Bill No. 3 MASONRY</p>		R	

	Brought Forward		R	
<u>SAMPLES</u>				
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
<u>FOUNDATIONS</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2		Rate Only
2	One brick walls in pit	m2		Rate Only
<u>SUPERSTRUCTURE</u>				
<u>FACE BRICKWORK</u>				
	<u>Face bricks (purchase price of R 5500.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
3	Half brickwork for face brick walls pointed both sides	m2		Rate Only
4	Extra over brickwork for face brickwork in beamfilling	m2		Rate Only
5	Fair raking and cutting	m		Rate Only
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 5500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>			
6	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m		Rate Only
7	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	15	
<u>BRICKWORK SUNDRIES</u>				
	<u>Brick reinforcement</u>			
8	75mm Wide reinforcement built in horizontally	m		Rate Only
	Carried Forward			
Section No. 3 BUILDING WORKS -FD1 Bill No. 3 MASONRY			R	

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	Brought Forward			R	
9	150mm Wide reinforcement built in horizontally	m			Rate Only
	<u>Ventillation bricks</u>				
10	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	4		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 BUILDING WORKS -FD1 Bill No. 3 MASONRY				

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Item No		Quantity	Rate	Amount
	<u>BILL NO.5</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sundries</u>			
1	Hurricane clips	No	20	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
2	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	21	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
3	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	
4	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	1	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 BUILDING WORKS -FD1 Bill No. 5 CARPENTRY AND JOINERY		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	1	
	<u>HANDLES</u>			
	<u>Aluminium Pull handle</u>			
4	Set of two ,300mm pull handles fixed back to back on door	No	1	
	<u>DOORSTOPPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	3	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with female symbol	No	3	
		Carried Forward		
	Section No. 3 BUILDING WORKS -FD1 Bill No. 6 IRONMONGERY			R

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	Brought Forward			R	
7	75 x 150mm Natural anodised aluminium plate with disabled symbol <u>"Vaal Paragon" or other approved</u>	No	1		
8	32mm Type 9 back stainless steel side grab rail 800mm long plugged	No	1		
9	32mm Type 8 back stainless steel side grab rail 900mm long plugged	No	1		
<u>BATHROOM FITTINGS</u>					
	<u>"Kimberley-Clark" or Similar</u>				
10	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	2		
	<u>Stainless steel</u>				
11	Stainless steel mirror 350 x 400mm high	No	1		
	<u>Sundries</u>				
12	Brushed stainless steel She bin approximately 330 x 280 x 180mm plugged	No	1		
<u>Carried Forward to Summary of Section No. 3</u>					
Section No. 3 BUILDING WORKS -FD1 Bill No. 6 IRONMONGERY					

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>PLASTERING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>CEMENT SCREEDS TO CONCRETE</u></p> <p><u>Screeds to steel trowelled, on concrete:</u></p> <p><u>INTERNAL PLASTER</u></p> <p><u>Cement plaster on brickwork or blockwork</u></p>			
1	On pits walls	m ²		Rate Only
2	On screed	m ²	11	
3	On internal textured plaster walls and floors in pit	m ²	15	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 BUILDING WORKS -FD1 Bill No. 8 IN SITU FINISHES			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
1	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	6	
2	Extra over for closed ends	No	2	
3	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
4	Extra over rainwater pipe for eaves offset	No	2	
5	Ditto ,for shoe	No	2	
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
	<u>INSTALLATION OF "ENVIRO LOO"</u>			
6	Allow the provisional sum of R 20 000.00 (Twenty Thousand Rand) for any work necessary for Enviro Loo CoC		Item	
7	Profit and attendance		Item	
8	"Enviro Loo" Outlet vent pipe installed complete	No	2	
9	"Enviro Loo" Extraction Unit	No	2	
10	"Enviro Loo" Adjustable wall mounting brackets	No	2	
11	"Enviro Loo" Air inlet pipes	No	4	
		Carried Forward		
	Section No. 3 BUILDING WORKS -FD1 Bill No. 9 PLUMBING AND DRAINAGE			R

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	Brought Forward			R	
12	"Enviro Loo" Ceramic bowl bolted to concrete	No	2		
	<u>SANITARY FITTINGS</u>				
	White glazed fireclay or equal approved				
13	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1		
14	Supply and install pre-cast concrete double wash-trough, complete with all necessary fittings and pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1		
	<u>WASTE UNIONS, ETC</u>				
15	32mm "301CP" Basin waste union	No	1		
	<u>TRAPS, ETC</u>				
	<u>"Marley"</u>				
16	32 x 50mm Deep seal "P" or "S" trap	No	2		
	<u>TAPS, VALVES, ETC.</u>				
	<u>"Cobra Watertech" or other equal approved</u>				
17	15mm gate valve plugged	No	1		
18	15mm Elbow action pillar tap	No	1		
19	19mm Chrome plated push button taps to wash troughs	No	2		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
20	50mm Pipes	m	30		
	<u>Extra over uPVC pipes for fittings</u>				
21	50mm Bend	No	4		
		Carried Forward			
	Section No. 3 BUILDING WORKS -FD1 Bill No. 9 PLUMBING AND DRAINAGE			R	

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	Brought Forward			R	
22	50 mm Junction	No	2		
23	50mm Access junction	No	1		
24	50mm Access bend	No	1		
25	50mm Access reducing junction	m	1		
26	50mm "GI Two-way" vent valve	No	2		
<u>WATER SUPPLIES</u>					
	<u>Class 0 copper pipes</u>				
27	15 mm Pipes	m	14		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
28	15mm Fittings	No	10		
	<u>Copper overflow and service pipes</u>				
29	15mm Service pipe 350mm girth	No	2		
	<u>Sundries</u>				
30	Testing water pipe system	Item			
<u>Carried Forward to Summary of Section No. 3</u>					
Section No. 3 BUILDING WORKS -FD1 Bill No. 9 PLUMBING AND DRAINAGE					

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m ²	5	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m ²	3	
3	On doors (External)	m ²	7	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m ²	9	
5	On gates (Measured over the full flat area of both sides)	m ²	8	
6	On Gutters and downpipes	m	10	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m ²	10	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 BUILDING WORKS -FD1 Bill No. 11 PAINTWORK		R	

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Bill No	Section No. 3 BUILDING WORKS -FD1 <u>SECTION SUMMARY - BUILDING WORKS -FD1</u>	Page No	Amount
1	EARTHWORKS	37	
2	CONCRETE, FORMWORK AND REINFORCEMENT	39	
3	MASONRY	42	
4	WATERPROOFING	43	
5	CARPENTRY AND JOINERY	44	
6	IRONMONGERY	46	
7	METALWORK	47	
8	IN SITU FINISHES	48	
9	PLUMBING AND DRAINAGE	51	
10	GLAZING	52	
11	PAINTWORK	53	
Carried to Final Summary			
Section No. 3 BUILDING WORKS -FD1			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.1</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>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.</p> <p>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.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 4 BUILDING WORKS -SD1 Bill No. 1 MASONRY</p>		R	

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	Brought Forward		R	
	<u>SAMPLES</u>			
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
	<u>BRICKWORK SUNDRIES</u>			
	<u>Ventillation bricks</u>			
1	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS -SD1 Bill No. 1 MASONRY			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.2</u></p> <p><u>WATERPROOFING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>FLOOR AND WALLS SEALERS</u></p> <p><u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u></p>			
1	Around steel windows and door frames.	m	11	
	Carried Forward to Summary of Section No. 4		R	

Section No. 4
BUILDING WORKS -SD1
Bill No. 2
WATERPROOFING

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sundries</u>			
1	Hurricane clips	No	20	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
2	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	22	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
3	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	
4	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	1	
	Carried Forward to Summary of Section No. 4			
	Section No. 4 BUILDING WORKS -SD1 Bill No. 3 CARPENTRY AND JOINERY		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	1	
	<u>HANDLES</u>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<u>DOORSTOPPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	3	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	3	
		Carried Forward		
	Section No. 4 BUILDING WORKS -SD1 Bill No. 4 IRONMONGERY			R

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	Brought Forward		R	
	<u>"Vaal Paragon" or similar approved</u>			
7	32mm Type 9 back grab rail 800mm long plugged	No	1	
8	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similiar</u>			
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	2	
	<u>Stainless steel</u>			
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	1	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 BUILDING WORKS -SD1 Bill No. 4 IRONMONGERY			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m ²		Rate Only
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
2	On screed	m ²	25	
	<u>Carried Forward to Summary of Section No. 4</u>			
	Section No. 4 BUILDING WORKS -SD1 Bill No. 6 IN SITU FINISHES		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
1	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	6	
2	Extra over for closed ends	No	2	
3	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
4	Extra over rainwater pipe for eaves offset	No	2	
5	Ditto ,for shoe	No	2	
	<u>PRECAST CONCRETE TROUGH</u>			
6	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
	<u>SOIL DRAINAGE</u>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
7	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	5	
8	110mm Pipes laid in and including trenches not exceeding 1m deep	m	15	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
9	110mm Bend	No	5	
	Carried Forward			R
	Section No. 4 BUILDING WORKS -SD1 Bill No. 7 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
10	110mm Junction	No	3	
11	110mm Rodding eye	No	2	
12	110mm Inspection eye	No	4	
	<u>uPVC gulleys</u>			
13	110mm Dished gully trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	1	
	<u>Testing :</u>			
14	Testing soil drainage system		Item	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or equal approved</u>			
15	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1	
16	Vaal Sanitaryware vitreous china "Afsan" low level 90B0 outlet washdown pan. Vaal Sanitaryware vitreous china "Hibiscus Elite Vandal Proof" low level cistern (code 7116LV), complete with front push button, lid, fitments and low level flush pipe.	No	1	
17	Vaal Sanitaryware vitreous china "Protea Paraplegic" 90B0 outlet pan (code 750200) and matching 9 litre cistern (code 7116LP) complete with lid, fitments, and purpose-made C.P. side-flush lever (left or right) or a back inlet exposed flushvalve	No	1	
18	Vaal Sanitaryware vitreous china wall hung "Lavatera" urinal with top inlet (code 705426). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 7054Z1). include a 38mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets.	No	3	
	<u>WASTE UNIONS, ETC</u>			
19	32mm "301CP" Basin waste union	No	1	
	<u>TRAPS, ETC.</u>			
	Carried Forward		R	
	Section No. 4 BUILDING WORKS -SD1 Bill No. 7 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
	<u>"Marley"</u>			
20	32 x 50mm Deep seal "P" or "S" trap	No	1	
	<u>TAPS, VALVES, ETC.</u>			
	<u>"Cobra Watertech" or other equal approved</u>			
21	15mm gate valve plugged	No	1	
22	15mm Elbow action pillar tap	No	1	
23	19mm Chrome plated push button taps to WHB	No	2	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
24	50mm Pipes	m	10	
	<u>Extra over uPVC pipes for fittings</u>			
25	50mm Bend	No	5	
26	50 mm Junction	No	2	
27	50mm Access junction	No	2	
28	50mm Access bend	No	2	
29	50mm "GI Two-way" vent valve	No	2	
	<u>WATER SUPPLIES</u>			
	<u>Class 0 copper pipes</u>			
30	15 mm Pipes	m	15	
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
31	15mm Fittings	No	12	
	<u>Copper overflow and service pipes</u>			
32	15mm Service pipe 350mm girth	No	3	
	Carried Forward		R	
	Section No. 4 BUILDING WORKS -SD1 Bill No. 7 PLUMBING AND DRAINAGE			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m ²	4	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m ²	9	
3	On doors (External)	m ²	8	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m ²	9	
5	On gates (Measured over the full flat area of both sides)	m ²	8	
6	On gutters and down pipes	m	10	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m ²	10	
	Carried Forward to Summary of Section No. 4			
	Section No. 4 BUILDING WORKS -SD1 Bill No. 9 PAINTWORK		R	

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Bill No	Section No. 4 BUILDING WORKS -SD1 <u>SECTION SUMMARY - BUILDING WORKS -SD1</u>	Page No	Amount
1	MASONRY	56	
2	WATERPROOFING	57	
3	CARPENTRY AND JOINERY	58	
4	IRONMONGERY	60	
5	METALWORK	61	
6	IN SITU FINISHES	62	
7	PLUMBING AND DRAINAGE	66	
8	GLAZING	67	
9	PAINTWORK	68	
Carried to Final Summary			
Section No. 4 BUILDING WORKS -SD1			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.1</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>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.</p> <p>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.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 5 BUILDING WORKS - SD2 Bill No. 1 MASONRY</p>		R	

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	Brought Forward		R	
	<u>SAMPLES</u>			
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
	<u>BRICKWORK SUNDRIES</u>			
	<u>Ventillation bricks</u>			
1	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 BUILDING WORKS - SD2 Bill No. 1 MASONRY			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.2</u></p> <p><u>WATERPROOFING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>FLOOR AND WALLS SEALERS</u></p> <p><u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u></p>			
1	1 Around steel windows and door frames.	m	11	
	Carried Forward to Summary of Section No. 5		R	

Section No. 5
BUILDING WORKS - SD2
Bill No. 2
WATERPROOFING

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sundries</u>			
1	Hurricane clips	No	24	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
2	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	25	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
3	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	
4	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	2	
	<u>Carried Forward to Summary of Section No. 5</u>			
	Section No. 5 BUILDING WORKS - SD2 Bill No. 3 CARPENTRY AND JOINERY		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	2	
	<u>HANDLES</u>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<u>DOORSTOPPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	4	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	3	
		Carried Forward		R
	Section No. 5 BUILDING WORKS - SD2 Bill No. 4 IRONMONGERY			

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	Brought Forward		R	
	<u>"Vaal Paragon" or similar approved</u>			
7	32mm Type 9 back grab rail 800mm long plugged	No	1	
8	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similiar</u>			
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	3	
	<u>Stainless steel</u>			
10	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	1	
	<u>Sundries</u>			
11	Brushed stainless steel She bin approximately 330 x 280 x 180mm plugged	No	2	
	<u>Carried Forward to Summary of Section No. 5</u>		R	
	Section No. 5 BUILDING WORKS - SD2 Bill No. 4 IRONMONGERY			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m ²		Rate Only
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
2	On screed	m ²	20	
	<u>Carried Forward to Summary of Section No. 5</u>			
	Section No. 5 BUILDING WORKS - SD2 Bill No. 6 IN SITU FINISHES		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
1	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
2	Extra over for closed ends	No	2	
3	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
4	Extra over rainwater pipe for eaves offset	No	2	
5	Ditto ,for shoe	No	2	
	<u>PRECAST CONCRETE TROUGH</u>			
6	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
	<u>SOIL DRAINAGE</u>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
7	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	5	
8	110mm Pipes laid in and including trenches not exceeding 1m deep	m	15	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
9	110mm Bend	No	14	
	Carried Forward			R
	Section No. 5 BUILDING WORKS - SD2 Bill No. 7 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
10	110mm Junction	No	7	
11	110mm Rodding eye	No	7	
12	110mm Inspection eye	No	7	
	<u>uPVC gulleys</u>			
13	110mm Dished gully not exceeding 500mm deep	No	1	
	<u>Testing :</u>			
14	Testing soil drainage system		Item	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal or equal approved</u>			
15	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1	
16	Vaal Sanitaryware vitreous china "Afsan" low level 90B0 outlet washdown pan.Vaal Sanitaryware vitreous china "Hibiscus Elite Vandal Proof" low level cistern (code7116LV), complete with front push button, lid, fitments and low level flush pipe.	No	2	
17	Vaal Sanitaryware vitreous china "Protea Paraplegic" 90B0 outletpan (code 750200) and matching 9 litre cistern (code 7116LP) complete with lid, fitments, and purpose-made C.P. side-flush lever (left or right) or a back inlet exposed flushvalve	No	1	
18	Vaal Sanitaryware vitreous china wall hung "Lavatera" urinal with top inlet (code705426). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 7054Z1). include a 38mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets.	No	3	
	<u>WASTE UNIONS, ETC</u>			
19	32mm "301CP" Basin waste union	No	1	
	<u>TRAPS, ETC.</u>			
	Carried Forward		R	
	Section No. 5 BUILDING WORKS - SD2 Bill No. 7 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
	<u>"Marley"</u>			
20	32 x 50mm Deep seal "P" or "S" trap	No	1	
	<u>TAPS, VALVES, ETC.</u>			
	<u>"Cobra Watertech" or other equal approved</u>			
21	15mm gate valve plugged	No	1	
22	15mm Elbow action pillar tap	No	1	
23	19mm Chrome plated push button taps to wash trough	No	2	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
24	50mm Pipes	m	15	
	<u>Extra over uPVC pipes for fittings</u>			
25	50mm Bend	No	8	
26	50 mm Junction	No	2	
27	50mm Access junction	No	2	
28	50mm Access bend	No	2	
29	50mm Access reducing junction	m	2	
30	50mm "GI Two-way" vent valve	No	3	
	<u>WATER SUPPLIES</u>			
31	50mm Bend	No	10	
	<u>Class 0 copper pipes</u>			
32	15 mm Pipes	m	14	
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
33	15mm Fittings	No	10	
	Carried Forward			
	Section No. 5 BUILDING WORKS - SD2 Bill No. 7 PLUMBING AND DRAINAGE			R

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	Brought Forward		R	
	<u>Copper overflow and service pipes</u>			
34	15mm Service pipe 350mm girth	No	2	
	<u>Sundries</u>			
35	Testing water pipe system		Item	
	<u>Carried Forward to Summary of Section No. 5</u>		R	
	Section No. 5 BUILDING WORKS - SD2 Bill No. 7 PLUMBING AND DRAINAGE			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.9</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	5	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	13	
3	On doors (External)	m2	11	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	13	
5	On gates (Measured over the full flat area of both sides)	m2	11	
6	On gutters and down pipes	m	14	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	12	
	Carried Forward to Summary of Section No. 5			
	Section No. 5 BUILDING WORKS - SD2 Bill No. 9 PAINTWORK		R	

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Bill No	Section No. 5 BUILDING WORKS - SD2 <u>SECTION SUMMARY - BUILDING WORKS - SD2</u>	Page No	Amount
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5	METALWORK	76	
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9	PAINTWORK	83	
Carried to Final Summary			
Section No. 5 BUILDING WORKS - SD2			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.1</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>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.</p> <p>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.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 6 BUILDING WORKS -MGR1 Bill No. 1 MASONRY</p>		R	

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	Brought Forward		R	
	<u>SAMPLES</u>			
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
	<u>BRICKWORK SUNDRIES</u>			
	<u>Ventillation bricks</u>			
1	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8	
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 1 MASONRY			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sundries</u>			
1	Hurricane clips	No	30	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
2	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	22	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
3	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	
4	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	1	
	Carried Forward to Summary of Section No. 6			
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 3 CARPENTRY AND JOINERY		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	3	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	2	
	<u>HANDLES</u>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<u>DOORSTOPPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	3	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with Grade R symbol	No	3	
		Carried Forward		
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 4 IRONMONGERY			R

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	Brought Forward		R	
	<u>"Vaal Paragon" or other approved</u>			
7	32mm Type 9 back stainless steel side grab rail 800mm long plugged	No	1	
8	32mm Type 8 back stainless steel side grab rail 900mm long plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	2	
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 4 IRONMONGERY			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m ²	24	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
2	On screed	m ²	24	
	<u>Carried Forward to Summary of Section No. 6</u>			
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 6 IN SITU FINISHES		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
1	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	6	
2	Extra over for closed ends	No	2	
3	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	7	
4	Extra over rainwater pipe for eaves offset	No	2	
5	Ditto ,for shoe	No	2	
	<u>PRECAST CONCRETE TROUGH</u>			
6	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
	<u>SOIL DRAINAGE</u>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
7	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	5	
8	110mm Pipes laid in and including trenches not exceeding 1m deep	m	15	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
9	110mm Bend	No	14	
	Carried Forward			R
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 7 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
10	110mm Junction	No	7	
11	110mm Rodding eye	No	7	
12	110mm Inspection eye	No	7	
	<u>uPVC gulleys</u>			
13	110mm Dished gully not exceeding 500mm deep	No	1	
	<u>Testing :</u>			
14	Testing soil drainage system		Item	
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal" or equal approved</u>			
15	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1	
16	Vitreous china "Junior" 104° outlet washdown pan (code 751300), matching Junior Elite 6 litre cistern (code 7116LL) complete with lid and fitments, and Junior Jazz seat (code 8532Z000) or equal approved	No	1	
17	"Protea Junior Paraplegic" code 7502 vitreous china pan with "Walcro 103 (LHS) HT" or equal approved flushing valve with elbow lever complete with lid, fitments and heavy duty seat	No	1	
18	Vaal Sanitaryware vitreous china wall hung "Lavatera" urinal with top inlet (code 705426). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 7054Z1). include a 38mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets.	No	3	
	<u>WASTE UNIONS, ETC</u>			
19	32mm "301CP" Basin waste union	No	1	
	<u>TRAPS, ETC.</u>			
		Carried Forward		
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 7 PLUMBING AND DRAINAGE		R	

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	Brought Forward		R	
	<u>"Marley"</u>			
20	32 x 50mm Deep seal "P" or "S" trap	No	1	
	<u>TAPS, VALVES, ETC.</u>			
	<u>"Cobra Watertech" or other equal approved</u>			
21	15mm gate valve plugged	No	2	
22	15mm Elbow action pillar tap	No	1	
23	19mm Chrome plated push button taps to wash trough	No	2	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
24	50mm Pipes	m	10	
	<u>Extra over uPVC pipes for fittings</u>			
25	50mm Bend	No	5	
26	50 mm Junction	No	2	
27	50mm Access junction	No	2	
28	50mm Access bend	No	2	
29	50mm Access reducing junction	m	2	
30	50mm "GI Two-way" vent valve	No	2	
	<u>WATER SUPPLIES</u>			
31	50mm Bend	No	10	
	<u>Class 0 copper pipes</u>			
32	15 mm Pipes	m	14	
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
33	15mm Fittings	No	10	
	Carried Forward			
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 7 PLUMBING AND DRAINAGE			R

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	Brought Forward		R	
	<u>Copper overflow and service pipes</u>			
34	15mm Service pipe 350mm girth	No	2	
	<u>Sundries</u>			
35	Testing water pipe system		Item	
	<u>Carried Forward to Summary of Section No. 6</u>		R	
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 7 PLUMBING AND DRAINAGE			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m ²	5	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m ²	10	
3	On doors (External)	m ²	3	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m ²	1	
5	On gates (Measured over the full flat area of both sides)	m ²	1	
6	On gutters and down pipes	m	10	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m ²	6	
	Carried Forward to Summary of Section No. 6			
	Section No. 6 BUILDING WORKS -MGR1 Bill No. 9 PAINTWORK		R	

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8	GLAZING	97	
9	PAINTWORK	98	
Carried to Final Summary			
Section No. 6 BUILDING WORKS -MGR1			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.1</u></p> <p><u>BRICKWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>BRICKWORK</u></p> <p>Sizes in descriptions</p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Hollow walls etc</p> <p>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.</p> <p>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.</p> <p>User note: The above preamble generally applies for works in hot and humid coastal areas</p> <p>Face bricks</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 7 BUILDING WORKS - FGR2 Bill No. 1 MASONRY</p>		R	

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	Brought Forward		R	
	<u>SAMPLES</u>			
	Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
	<u>BRICKWORK SUNDRIES</u>			
	<u>Ventillation bricks</u>			
1	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	8	
	Carried Forward to Summary of Section No. 7			
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 1 MASONRY		R	

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO.2</u></p> <p><u>WATERPROOFING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to be used - PW 371"</p> <p><u>FLOOR AND WALLS SEALERS</u></p> <p><u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u></p>			
1	1 Around steel windows and door frames.	m	14	
	Carried Forward to Summary of Section No. 7		R	

Section No. 7
BUILDING WORKS - FGR2
Bill No. 2
WATERPROOFING

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Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sundries</u>			
1	Hurricane clips	No	30	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
2	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	20	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
3	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	
4	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	2	
	Carried Forward to Summary of Section No. 7			
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 3 CARPENTRY AND JOINERY		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	2	
3	Indicator lockset	No	2	
	<u>HANDLES</u>			
	<u>Aluminium Pull handle</u>			
4	Set of two ,300mm pull handles fixed back to back on door	No	1	
	<u>DOORSTOPPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	4	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with Grade R symbol	No	2	
	Carried Forward			R
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 4 IRONMONGERY			

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	Brought Forward		R	
	<u>"Vaal Paragon" or other approved</u>			
7	32mm Type 9 back stainless steel side grab rail 800mm long plugged	No	1	
8	32mm Type 8 back stainless steel side grab rail 900mm long plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	3	
	<u>Stainless steel</u>			
10	Stainless steel mirror 350 x 400mm high	No	1	
	<u>Sundries</u>			
11	Brushed stainless steel She bin approximately 330 x 280 x 180mm plugged	No	2	
	Carried Forward to Summary of Section No. 7		R	
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 4 IRONMONGERY			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m ²	15	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
2	On screed	m ²	15	
	Carried Forward to Summary of Section No. 7			
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 6 IN SITU FINISHES		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
1	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	5	
2	Extra over for closed ends	No	2	
3	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	5	
4	Extra over rainwater pipe for eaves offset	No	2	
5	Ditto ,for shoe	No	2	
	<u>PRECAST CONCRETE TROUGH</u>			
6	Supply and install pre-cast concrete double wash-trough, complete with all necessary pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
	<u>SOIL DRAINAGE</u>			
	<u>Normal duty (Class 51) uPVC sewer and drain pipes</u>			
7	110mm Pipes vertically or ramped to cleaning eyes, etc.	m	5	
8	110mm Pipes laid in and including trenches not exceeding 1m deep	m	15	
	<u>Extra over normal duty (Class 51) uPVC sewer and drain pipes for fittings</u>			
9	110mm Bend	No	14	
	Carried Forward			R
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 7 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
10	110mm Junction	No	7	
11	110mm Rodding eye	No	7	
12	110mm Inspection eye	No	7	
	<u>uPVC gulleys</u>			
13	110mm Dished gully not exceeding 500mm deep	No	1	
	<u>Testing :</u>			
14	Testing soil drainage system		Item	
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal" or equal approved</u>			
15	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	1	
16	Vitreous china "Junior" 104° outlet washdown pan (code 751300), matching Junior Elite 6 litre cistern (code 7116LL) complete with lid and fitments, and Junior Jazz seat (code 8532Z000) or equal approved	No	2	
17	"Protea Junior Paraplegic" code 7502 vitreous china pan with "Walcro 103 (LHS) HT" or equal approved flushing valve with elbow lever complete with lid, fitments and heavy duty seat	No	1	
	<u>WASTE UNIONS, ETC</u>			
18	32mm "301CP" Basin waste union	No	1	
	<u>TRAPS, ETC.</u>			
	<u>"Marley"</u>			
19	32 x 50mm Deep seal "P" or "S" trap	No	1	
	<u>TAPS, VALVES, ETC.</u>			
		Carried Forward		
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 7 PLUMBING AND DRAINAGE		R	

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	Brought Forward		R	
	<u>"Cobra Watertech" or other equal approved</u>			
20	15mm gate valve plugged	No	1	
21	15mm Elbow action pillar tap	No	1	
22	19mm Chrome plated push button taps to wash trough	No	2	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
23	50mm Pipes	m	15	
	<u>Extra over uPVC pipes for fittings</u>			
24	50mm Bend	No	5	
25	50 mm Junction	No	2	
26	50mm Access junction	No	2	
27	50mm Access bend	No	2	
28	50mm Access reducing junction	m	1	
29	50mm "GI Two-way" vent valve	No	3	
	<u>WATER SUPPLIES</u>			
	<u>Class 0 copper pipes</u>			
30	15 mm Pipes	m	14	
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
31	15mm Fittings	No	10	
	<u>Copper overflow and service pipes</u>			
32	15mm Service pipe 350mm girth	No	2	
	<u>Sundries</u>			
33	Testing water pipe system		Item	
	<u>Carried Forward to Summary of Section No. 7</u>			
	Section No. 7			
	BUILDING WORKS - FGR2			
	Bill No. 7			
	PLUMBING AND DRAINAGE			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m ²	5	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (External)	m ²	7	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
3	On door frames	m ²	2	
4	On gates (Measured over the full flat area of both sides)	m ²	4	
5	On gutters and down pipes	m	10	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
6	On windows with burglar bars	m ²	4	
	Carried Forward to Summary of Section No. 7			
	Section No. 7 BUILDING WORKS - FGR2 Bill No. 9 PAINTWORK			R

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Bill No	Section No. 7 BUILDING WORKS - FGR2 <u>SECTION SUMMARY - BUILDING WORKS - FGR2</u>	Page No	Amount
1	MASONRY	101	
2	WATERPROOFING	102	
3	CARPENTRY AND JOINERY	103	
4	IRONMONGERY	105	
5	METALWORK	106	
6	IN SITU FINISHES	107	
7	PLUMBING AND DRAINAGE	110	
8	GLAZING	111	
9	PAINTWORK	112	
Carried to Final Summary			
Section No. 7 BUILDING WORKS - FGR2			R

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	Brought Forward		R	
	<u>Compaction of surfaces</u>			
7	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	m ²	200	
	<u>Soil poisoning</u>			
8	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1 m ²	m ²	200	
	<u>Unreinforced Concrete</u>			
	<u>25Mpa/19mm concrete</u>			
9	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 sailboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	200	
10	Extra for fair open end	No	20	
11	Extra for fair stopped end	No	20	
12	Extra for angle intersection	No	25	
	Carried Forward to Summary of Section No. 8		R	
	Section No. 8 EXTERNAL WORKS Bill No. 1 STORMWATER CONTROL			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO 2</u>			
	<u>PAVED WALKWAYS</u>			
	<u>EARTHWORKS</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	300	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	300	
	<u>Earthworks</u>			
	<u>Open face excavation in earth over sloping site</u>			
3	Open face excavation to form platforms under parking areas, roads, etc and dispose in prescribed stock piles on site	m3	90	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from stock piles on site to a dumping site to be located by the Contractor	m3	45	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted as specified</u>			
5	Subbase course of G5 material in 150mm layer, compacted to 93% Mod AASHTO density	m3	90	
	<u>Compaction of surfaces</u>			
6	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	300	
	Carried Forward			R
	Section No. 8 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY			

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	Brought Forward		R	
	<u>Additional tests required by the engineer (Refer to Supplementary Preambles for contractor's tests: SABS 1200)</u>			
7	"Modified AASHTO Density" test <u>Paving of type 60mm interlocking precast concrete paving blocks with butt joints including 50mm thick river sand bed with sand swept into joints, including preparation of ground or filling</u>	No	8	
8	Paving to parking areas etc to falls, including necessary straight edge blocks <u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>	m ²	300	
9	Under paving etc <u>Kerbs, etc</u> <u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>	m ²	300	
10	Fig 12 kerb with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	410	
	<u>STEEL HANDRAILS, BALUSTRADES, ETC</u>			
	<u>Welded handrails to walkways and ramps</u>			
11	Horizontal welded balustrading 1 000mm high formed of 50 x 50 x 3mm thick square hollow section top and bottom rails, with uprights formed of 50 x 50 x 3mm thick square hollow section steel at 986mm centres, the balustrading with two cross members formed of 50 x 25 x 3mm thick hollow section and welded to 75 x 75 x 3mm thick columns at 1 500mm centres	m	40	
	<u>Carried Forward</u>		R	
	Section No. 8 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY			

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	Brought Forward		R	
12	Raking welded balustrading 1 000mm high formed of 50 x 50 x 3mm thick square hollow section top and bottom rails, with uprights formed of 50 x 50 x 3mm thick square hollow section steel at 986mm centres, the balustrading with two cross members formed of 50 x 25 x 3mm thick hollow section and welded to 75 x 75 x 3mm thick columns at 1 500mm centres	m	8	
13	100 x 100 x 5mm Thick base plate, four times holed and welded to bottom of posts (e/m)	No	19	
14	Extra over last for closed end to 50 x 50mm rails	No	6	
15	M16 x 100mm expansion bolt	No	75	
16	Painting to steel handrails and balustrades (both sides measured)	m2	80	
Carried Forward to Summary of Section No. 8				
Section No. 8 EXTERNAL WORKS Bill No. 2 PAVED WALKWAY				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 3</u>			
	<u>FENCING</u>			
	<u>Steel Palisade Fencing</u>			
	<u>The following in steel palisade fencing colour to be</u> <u>Traffic Green</u>			
	<u>Steel Palisade Fencing Around Grade R</u>			
1	1800mm High palisade fencing comprising of 3m panels of 40 x 40 x 2mm angle iron welded flash with the back of the post 300mm from top of paling and 300mm from bottom of paling (350mm from ground level),21 palings per panel consisting of 30 x 30 x 2mm steel angle iron paling 1.8m high inserted and firmly welded to the bearers at 133mm centre to centre with a "Devil Fork" effect on top and dovetail at bottom welded to 76 x 76 x 2 mm steel square tubing post with closing pyramids caps on top ,post to be 2400mm high set and casted into 300 x 300 x 600 mm deep 20 Mpa concrete.	m	120	
2	1800mm High and 900mm wide swing gate from 32mm diameter framework, all tube hot dipped galvanised after fabrication, with 50 x 50 x 2.5mm hot dipped galvanised welded mesh infill, fixed with heavy duty hinges to 100mm diameter x 3.5mm HDG corner posts, 2400mm long with standard type cap, 150 x 150 x 3mm base plate and casting into and including 500 x 500 x 600mm deep 20MPa concrete in ground, each corner post with off 32mm diameter x 2.5mm HDG stays at 45 degree angle, 50 x 50 x 2mm baseplate and casting into and including 300 x 300 x 300mm deep 20MPa concrete complete with all earthworks, trimmings and fixing	No	1	
	<u>Steel Palisade Fencing</u>			
	<u>The following in steel palisade fencing</u>			
	Carried Forward			R
	Section No. 8 EXTERNAL WORKS Bill No. 3 FENCING			

	Brought Forward		R	
	<u>Steel Palisade Fencing Around School Perimeter</u>			
3	1800mm High palisade fencing comprising of 3m panels of 40 x 40 x 2mm angle iron welded flash with the back of the post 300mm from top of paling and 300mm from bottom of paling (350mm from ground level),21 palings per panel consisting of 30 x 30 x 2mm steel angle iron paling 1.8m high inserted and firmly welded to the bearers at 133mm centre to centre with a "Devil Fork" effect on top and dovetail at bottom welded to 76 x 76 x 2 mm steel square tubing post with closing pyramids caps on top ,post to be 2400mm high set and casted into 300 x 300 x 600 mm deep 20 Mpa concrete.	m	820	
4	Sliding gate 5000mm x 1800mm High formed from 40 x 40 x 2mm welded angle iron paling; 76 x 38 x 2mm rectangular tubing frame; two 80mm roller coaster wheels fitted with ball bearing; track formed of 12mm steel rod welded to 40 x 40 x 5mm angel iron fixed into a 300 x 400 x 5000mm concrete base; gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length planted into 450 x 450 x 600mm concrete base (all concrete work to engineer's specification).	No	1	
5	Pedestrian gate 1500mm x 1800mm High formed from 40 x 40 x 2mm welded angle iron paling; 50 x 25 x 1.6mm rectangular tubing frame; gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length planted into 450 x 450 x 600mm concrete base (all concrete work to engineer's specification).	No	2	
	<u>PAINTWORK</u>			
	<u>On metal</u>			
	<u>Undercoat and minimum 2 coats gloss enamel</u>			
6	Prime, apply one coat undercoat and two coats of high gloss enamel paint on steel (Measured over the full flat area of both sides according specification)	m ²	3 384	
	<u>Carried Forward to Summary of Section No. 8</u>		R	
	Section No. 8 EXTERNAL WORKS Bill No. 3 FENCING			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>RAIN WATER TANKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	Site clearance			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	87	
	<u>EXCAVATION, FILLING, ETC</u>			
	Excavation in earth not exceeding 2m deep			
2	Trenches	m ³	28	
	Extra over trench and hole excavations in earth for excavation in			
3	Soft rock	m ³	7	
4	Hard rock	m ³	70	
	Extra over all excavations for carting away			
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m ³	14	
	Risk of collapse of excavations			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	33	
	Keeping excavations free of water			
7	Keeping excavations free of all water other than subterranean water		Item	
	Earth filling supplied (G7) by contractor compacted to 93% Mod AASHTO density			
8	Backfilling to trenches, holes, etc	m ³	9	
	Carried Forward			
	Section No. 8 EXTERNAL WORKS Bill No. 4 RAINWATER HARVESTING TANKS			R

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	Brought Forward		R	
	<u>SOIL POISONING</u> <u>Soil poisoning mixed in accordance to supplier's specifications</u>			
9	To bottoms and sides of trenches, etc.	m2	19	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
10	Strip footings	m3	9	
11	Platform surface beds cast in panels	m3	2	
	<u>FINISHING TOP SURFACE OF CONCRETE</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
12	Surface beds, slabs, etc (rainwater tanks)	m2	19	
	<u>REINFORCEMENT</u>			
	<u>Fabric reinforcement</u>			
13	Type 295 fabric reinforcement in concrete surface beds, slabs, etc	m2	29	
	<u>TEST CUBES</u>			
14	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	3	
	<u>BRICKWORK</u>			
		Carried Forward		R
	Section No. 8 EXTERNAL WORKS Bill No. 4 RAINWATER HARVESTING TANKS			

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	Brought Forward		R	
15	<u>Brickwork of NFP bricks in class II mortar</u> One brick walls	m ²	23	
16	<u>BRICKWORK SUNDRIES</u> <u>Brickwork reinforcement</u> 150mm Wide reinforcement built in horizontally	m	70	
17	<u>FACE BRICKWORK</u> <u>Face bricks (purchase price of R 5000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u> Extra over brickwork for face brickwork	m ²	23	
18	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R3 500,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u> Coping on top of one brick wall	m	37	
19	<u>WATERPROOFING</u> <u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u> In walls	m ²	8	
20	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u> Under surface beds	m ²	19	
	Carried Forward		R	
	Section No. 8 EXTERNAL WORKS Bill No. 4 RAINWATER HARVESTING TANKS			

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	Brought Forward		R	
	<u>Galvanized medium normalized mild steel piping</u>			
21	25mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive"	m	60	
22	50mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive"	m	60	
	<u>Extra over galvanised mild steel water supply pipes for fittings:</u>			
23	25mm Fittings.	No	30	
24	50mm Elbows.	No	30	
25	50mm Union.	No	30	
26	50mm Reducing bush.	No	30	
27	15mm "Cobra Ref. 108LK" brass hose biptap.	No	10	
	<u>"Jojo" approved SANS PVC water tanks</u>			
28	5 000 Litre plastic water tank fitted onto and secured to tank platforms	No	5	
Carried Forward to Summary of Section No. 8				
Section No. 8 EXTERNAL WORKS Bill No. 4 RAINWATER HARVESTING TANKS				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>WATER SUPPLIES</u>			
	<u>BILL NO. 5</u>			
	<u>Class 10 HDPe type IV pipes</u>			
1	40mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive"	m	10	
2	50mm Pipes laid in and including trenches not exceeding 1m deep "Labour Intensive"	m	260	
	<u>Extra over Class 10 HDPe type IV pipes for fittings</u>			
3	40mm Fittings	No	20	
4	50mm Fittings	No	25	
5	40mm Reducer	No	6	
6	50mm Reducer	No	6	
7	40mm Bend	No	12	
8	50mm Bend	No	12	
9	50mm Threaded adaptor	No	5	
	Carried Forward to Summary of Section No. 8			
	Section No. 8 EXTERNAL WORKS Bill No. 5 WATER SUPPLY		R	

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>BILL NO. 6</u>			
	<u>WATER FOUNTAINS</u>			
	<u>Earthworks</u>			
	<u>Excavation in compacted building platform not exceeding 2m deep</u>			
1	Trenches	m3	2	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2	
	<u>Compaction of surfaces</u>			
3	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	2	
	<u>FILLING</u>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>			
4	Backfilling to trenches, holes, etc	m3	1	
	<u>Concrete, etc</u>			
	<u>25Mpa/19mm reinforced concrete</u>			
5	Wall	m3	1	
6	Slabs	m3	1	
	<u>Rough formwork to sides</u>			
7	Edges, risers, ends and reveals not exceeding 300mm high or wide "Labour Intensive"	m	12	
	Carried Forward			
	Section No. 8 EXTERNAL WORKS Bill No. 6 STAND PIPES			R

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	Brought Forward				
8	Formwork to sides <u>Mesh Reinforcement (measure nett)</u>	m2	4	R	
9	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	4		
	<u>WATER SUPPLIES</u>				
10	15mm Pipes <u>Extra over class 0 pipes for capillary fittings</u>	m	16		
11	15mm fittings <u>Cobra Watertech or equal approved</u>	No	8		
12	19mm chrome plated push button taps	No	4		
	Carried Forward to Summary of Section No. 8			R	
	Section No. 8 EXTERNAL WORKS Bill No. 6 STAND PIPES				

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Bill No	Section No. 8 EXTERNAL WORKS <u>SECTION SUMMARY - EXTERNAL WORKS</u>	Page No	Amount
1	STORMWATER CONTROL	115	
2	PAVED WALKWAY	118	
3	FENCING	120	
4	RAINWATER HARVESTING TANKS	124	
5	WATER SUPPLY	125	
6	STAND PIPES	127	
Carried to Final Summary			
Section No. 8 EXTERNAL WORKS			R

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Item No		Quantity	Rate	Amount
	<u>PROVISIONAL SUMS</u> All the provisional sums cover supply of material and equipment and installation where applicable by firms of specialists. Provisional sums are net and do not include builder's discount, but the Tenderer may allow under "Profit" items any profit he considers necessary. The Tenderer is referred to Clause 87.1 and 87.2 in the "Preliminaries" section for the definition and adjustment of "General Attendance". <u>N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE</u> <u>PROVIDE FOR AN AMOUNT FOR UNQUANTIFIED REMIDIAL WORKS</u>			
1	Provide and amount of R 500 000.00 (FIVE HUNDRED THOUSAND RANDS AND ZERO CENTS) NET for unquantified remedial works	Item		500 000.00
2	Allow for profit		%	
3	Allow for attendance		%	
	Carried to Final Summary			
Section No. 9 PROVISIONAL SUMS Bill No. 1 Provisional sums				R

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