

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 1</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
<p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 Edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (March 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>			
Carried Forward		R	
PRELIMINARIES Ps & Gs <b>BTKM QUANTITY SURVEYORS</b>			

	<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>PREAMBLES FOR TRADES</u></b></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><b><u>GENERAL</u></b></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><b><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b><u>Definitions (A1)</u></b></p> <p>1 Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>PRELIMINARIES Ps &amp; Gs <b>BTKM QUANTITY SURVEYORS</b></p>	<p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

INDEPENDENT DEVELOPMENT TRUST  
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Brought Forward		R	
<b><u>Objective and Preparation (A2 to A14)</u></b>			
2	Offer acceptance and performance (clause 2) F:..... V:..... T:.....	Item	
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:.....	Item	
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			
Carried Forward		R	
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	The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process		
6	Site representative (clause 6) F:..... V:..... T:.....	Item	
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	
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Brought Forward			R	
13	NO CLAUSE	N/A		
14	Security (clause 14) F:..... V:..... T:.....	Item		
<b><u>Execution (A15-A23)</u></b>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
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		
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Brought Forward		R	
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	
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item	
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item	
<b><u>Completion (A24-A30)</u></b>			
24	Practical completion (clause 24) F:..... V:..... T:.....	Item	
25	Works completion (clause 25) F:..... V:..... T:.....	Item	
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Brought Forward			R	
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		
30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
<b><u>Payment (A31 - A35)</u></b>				
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:.....	Item		
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	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		
33	Recovery of expense and loss (clause 33) F:..... V:..... T:.....	Item	
34	Final account and final payment (clause 34) F:..... V:..... T:.....	Item	
	The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion		
	The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account		
35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item	
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Brought Forward		R
<b><u>Cancellation (A36-A39)</u></b>		
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item
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
<b><u>Dispute (A40)</u></b>		
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item
<b><u>Substitute Provisions (A41)</u></b>		
41	State clauses (Clause 41) F:..... V:..... T:.....	Item
Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder		
Carried Forward		R
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	<b>Brought Forward</b>		R	
	<b><u>THE SCHEDULE</u></b>			
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42)			
	F:..... V:..... T:.....	Item		
	<b><u>42.1 CONTRACTING AND OTHER PARTIES</u></b>			
	42.1.1 Employer: INDEPENDENT DEVELOPMENT TRUST (IDT)			
	42.1.2 Principal Agent: BTKM QUANTITY SURVEYORS			
	<b><u>42.2 CONTRACT DETAILS</u></b>			
	42.2.1 Works Description: Construction of sanitation facilities			
	42.2.2 Site Description: as per the information on the tender data			
	42.2.3 Work or installations by direct contractors:			
	N/A			
	42.2.4 This agreement is for a government contract where there are specific options that are applicable to a <b>State</b> organ only			
	Yes			
	<b>Carried Forward</b>		R	
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<p><b>Brought Forward</b></p>	
<p>42.2.5 Date on which possession of the site is intended to be given:</p> <p>As per the information provided in the Tender Data</p>	
<p>42.2.6 Period for the commencement of the works after the contractor takes possession of site:</p> <p>7 DAYS</p>	
<p>42.2.7 For the works <b>as a whole</b>. Intended date of practical completion and the penalty per calendar day</p> <p>Intended Date of Practical Completion: <i>As per the information provided in the Tender Data</i></p> <p>Penalty Amount: <i>The penalty per <b>calender day</b> shall be 0.05 per R100 of the Contract Value (inclusive of value added tax)</i></p>	
<p>42.2.8 For the works in <b>sections</b>: Intended date of practical completion and the penalty per calendar day</p> <p>N/A</p>	
<p>42.2.9 The <b>law</b> applicable to this <b>agreement</b> shall be that of</p> <p><i>South Africa (country)</i></p>	
<p><b>Carried Forward</b></p> <p>PRELIMINARIES Ps &amp; Gs <b>BTKM QUANTITY SURVEYORS</b></p>	R

<b>Brought Forward</b>	R	
<b><u>42.3 INSURANCES</u></b>		
42.3.1 Contract works insurance to be effected by:		
<i>Contractor:</i>		
<i>For the Sum of R Contract Amount + 20.00 %</i>		
<i>With a deductible of - to be determined by the contractor</i>		
42.3.2 Supplementary insurance is required		
		Yes
42.3.3 Public liability insurance to be effected by:		
<i>Contractor:</i>		
<i>For the Sum of R 10 000 000-00</i>		
<i>With a deductible of - to be determined by the contractor</i>		
<b><u>42.4 DOCUMENTS</u></b>		
42.4.1 Waivers of <b>contractors lien</b> or right of continuing possession is required		
		Yes
42.4.2 Number of construction document copies to be supplied to the <b>contractor</b> free of charge:		
3 Number of		
42.4.3 <b>Bills of Quantities/Lump sum document</b> schedule of rates drawn up in accordance with:		
"Standard System of Measuring Builders' Work"		
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	42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within <b>5 working days</b> <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 <b>contract documents</b> : <i>No</i>			
	42.4.6 The contract value is to be adjusted using escalation adjustment indices <i>No</i> Where <b>JBCC CPAP</b> is to be used <i>Base Month N/A</i>			
	42.4.7 Details of changes made to the provision of JBCC standard documentation:  Part 1 - Contract Data completed by Employer			
	<b><u>SECTION B: PRELIMINARIES</u></b>			
	<b><u>Definitions and interpretation (B1)</u></b>			
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item		
	<b><u>Documents (B2)</u></b>			
44	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
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45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A	
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item	
47	Interests of agents (B2.4) F:..... V:..... T:.....	Item	
48	Priced documents (B2.5) F:..... V:..... T:.....	Item	
49	Tender submission (B2.6) F:..... V:..... T:.....	Item	
50	Defined works area (B3.1) F:..... V:..... T:.....	Item	
<b><u>The site (B3)</u></b>			
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item	
52	Inspection of the site (B3.3) F:..... V:..... T:.....	Item	
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Existing premises occupied (B3.4)			
F:..... V:..... T:.....			
Specific requirements:			
The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.			
Previous work - dimensional accuracy (B3.5)			
F:..... V:..... T:.....			
Previous work - defects (B3.6)			
F:..... V:..... T:.....			
53	Services - known (B3.7)		
	F:..... V:..... T:.....	Item	
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	
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Brought Forward		R	
<b><u>Management of contract (B4)</u></b>			
57	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item	
58	Management of the works (B4.1) F:..... V:..... T:.....	Item	
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item	
60	Progress meetings (B4.3) F:..... V:..... T:.....	Item	
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item	
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item	
<b><u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u></b>			
63	Samples of materials (B5.1) F:..... V:..... T:.....	Item	
64	Workmanship samples (B5.2) F:..... V:..... T:.....	Item	
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Brought Forward		R	
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item	
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item	
<b><u>Temporary works and plant (B6)</u></b>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item	
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	
Carried Forward		R	
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	<b>Brought Forward</b>		R	
	<b><u>Temporary services (B7)</u></b>			
73	Location (B7.1) F:..... V:..... T:.....	Item		
74	Water (B7.2) <b>Option [A] shall apply</b> F:..... V:..... T:.....	Item		
75	Electricity (B7.3) <b>Option [A] shall apply</b> F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) <b>Option [A] shall apply</b> F:..... V:..... T:.....	Item		
	<b><u>Prime cost amounts (B8)</u></b>			
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
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	<b>Brought Forward</b>		R	
	<b><u>Attendance on N/S Subcontractors (B9)</u></b>			
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		
	<b><u>Financial aspects (B10)</u></b>			
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) <b>Option [B] shall apply</b> F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) <b>Option [A] shall apply</b> F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
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<b><u>General (B11)</u></b>			
85	Protection of works (B11.1) F:..... V:..... T:.....	Item	
86	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item	
87	Security of the Works (B11.3) F:..... V:..... T:.....	Item	
88	Notice before covering work (B11.4) F:..... V:..... T:.....	Item	
89	Disturbance (B11.5) F:..... V:..... T:.....	Item	
90	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item	
91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item	
92	Vermin (B11.8) F:..... V:..... T:.....	Item	
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93	Overhand work (B11.9) F:..... V:..... T:.....	Item	
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item	
95	As built information (B11.11) F:..... V:..... T:.....	Item	
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item	
<b><u>Schedule of variables (B12)</u></b>			
97	Pre-tender information (B12.1) F:..... V:..... T:.....	Item	
12.1.1	Provisional bills of quantities (B2.2) The quantities are provisional: No		
12.1.2	Availability of construction documentation (B2.3) Construction documentation is not complete No		
12.1.3	Interest of agents (B2.4)		
12.1.4	Defined works area (B3.1)		
Carried Forward		R	
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<b>Brought Forward</b>	R
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)	
12.1.13 Offices (B6.4.3)  Specific requirements:  The contractor shall provide, maintain and remove, on completion of the works, an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.	
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12.1.14 Main notice board (B6.5)  YES				
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)				
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				
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		Brought Forward			R
<b><u>Post tender information (B12.2)</u></b>					
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				
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>					
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					
98	<b>Site instructions</b>  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	
99	<b>Black economic empowerment and training</b>  F:..... V:..... T:.....			Item	
100	<b>Proprietary branded products</b>  F:..... V:..... T:.....			Item	
		Carried Forward			R
PRELIMINARIES Ps & Gs <b>BTKM QUANTITY SURVEYORS</b>					



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	<b>Brought Forward</b>		R	
101	<b>Testing of flat roof waterproofing for watertightness</b>  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		
102	<b>Contract instructions</b>  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		
103	<b>Labour record</b>  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		
104	<b>Plant record</b>  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	PRELIMINARIES Ps & Gs <b>BTKM QUANTITY SURVEYORS</b>			

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		<b>Brought Forward</b>		R	
		At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week			
105	Guarantees	F:..... V:..... T:.....	Item		
		Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement			
106	Overtime	F:..... V:..... T:.....	Item		
		Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer			
		<b>Carried Forward</b>		R	
	PRELIMINARIES Ps & Gs <b>BTKM QUANTITY SURVEYORS</b>				

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	<b>Brought Forward</b>		R	
107	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	Item		
108	Occupational Health and Safety Specification  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	PRELIMINARIES Ps & Gs <b>BTKM QUANTITY SURVEYORS</b>			

<p style="text-align: center;"><b>Brought Forward</b></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. 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 style="text-align: center;">R</p>
<p style="text-align: center;"><b>Carried Forward</b></p> <p>PRELIMINARIES Ps &amp; Gs <b>BTKM QUANTITY SURVEYORS</b></p>	<p style="text-align: center;">R</p>

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Brought Forward			R
109	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	
110	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	
111	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	
112	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of reflective vests	Item	
113	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of hard hats	Item	
Carried Forward			R
PRELIMINARIES Ps & Gs BTM QUANTITY SURVEYORS			

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Brought Forward		R	
114	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of protective footwear	Item	
115	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of earplugs	Item	
116	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of dust masks	Item	
117	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of gloves	Item	
118	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of high visibility overalls to SARTSM Chapter 13 Level 3	Item	
Carried Forward		R	
PRELIMINARIES Ps & Gs BTKM QUANTITY SURVEYORS			

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Brought Forward		R	
119	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of SANS approved ear defenders		
120	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of face masks (Covid -19)		
121	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of face shields (Covid -19)		
122	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of gloves (Covid -19)		
123	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of hand sanitiser (min 70% alchohol), foot press stands and paper towels (Covid -19)		
124	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
Carried Forward		R	
PRELIMINARIES Ps & Gs BTM QUANTITY SURVEYORS			

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Brought Forward		R	
	Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)		
125	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)		
126	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)		
127	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of signage, including Covid -19 related signage		
128	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of full time construction health and safety officer (SACPCMP Registered)		
129	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
Carried Forward		R	
PRELIMINARIES Ps & Gs BTKM QUANTITY SURVEYORS			



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Brought Forward		R	
	Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations		
130	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Medical screenings, examinations, etc in terms of Covid-19 regulations		
131	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Induction training, including Covid-19 training		
132	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Provision of first aid boxes to GSR requirements		
133	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc		
134	Provision of personal protective equipment (PPE) F:..... V:..... T:.....	Item	
	Submission of health and safety file		
Carried Forward		R	
PRELIMINARIES Ps & Gs BTKM QUANTITY SURVEYORS			

[illegible]

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>ALTERATIONS</u></b>			
	<b><u>Supplementary Preambles:</u></b>			
	<u>View site</u>			
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.			
	<u>Explosives</u>			
	No explosives whatsoever may be used for demolition.			
	<u>General</u>			
	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 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.			
	Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.			
	Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging,			
	<b>Carried Forward</b>		R	
	ALTERATIONS DEMOLITIONS & REFURBISHMENT <b>BTKM QUANTITY SURVEYORS</b>			

<b>Brought Forward</b>		R
<p>cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc.</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing.</p> <p>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.</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary.</p> <p>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).</p>		
<b><u>DEMOLITIONS OF EXISTING STRUCTURES</u></b>		
Demolitions of existing pit toilet structures including foundations and surface beds, doors, windows and door frames, ironmongery and plumbing fittings complete. All pits are to be filled and compacted according to the Engineer's specification.	No	12
Demolitions of existing concrete aprons around enviro loo toilet blocks	m2	75
<b><u>REMOVAL OF EXISTING WORK</u></b>		
<b>Carried Forward</b>		R
<p>ALTERATIONS DEMOLITIONS &amp; REFURBISHMENT <b>BTM QUANTITY SURVEYORS</b></p>		

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Brought Forward			R
	<u>Taking out and removing doors, etc including removing all ironmongery and making good frames and preparing frames to receive new doors (new doors and ironmongery elsewhere):</u>		
3	Timber single door 813 x 2032mm high.	No	12
	<u>Taking out and removing glass and mirrors:</u>		
4	Glass from steel windows including cleaning out rebates and preparing for new glass.	m2	10
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>			
5	Hacking faces of existing face brickwork to receive plaster	m2	300
<b><u>PREPARATORY WORK, MAKING GOOD, ETC TO EXISTING</u></b>			
6	Remedial work to the existing surface bed/concrete slab in accordance with the Engineer's detail for <b>ALL FOUR ENVIRO LOO BLOCKS</b> (refer to drawing C-200)	Item	
7	<u>Clean surfaces with high pressure water jet and approved chemicals to remove marks, add hoop iron wall ties as specified by the Architect and apply two coats of bitumen emulsion waterproof coating to hacked brick walls</u>	m2	300
8	Examining IBR steel roof coverings, including ridge cappings and securing loose roofing screws, replacing missing or defective screws and/or washers with 8 x 120mm galvanised steel drive screws and 'Everseal' combination galvanised cup and PVC washers, making good bolt holes with approved sealant to render watertight, and sealing all overlapping of sheeting with approved sealant.	m2	85
9	Installation of missing hurricane clips to the roof rafters including replacement of nails and installation of bolts and nuts where directed by the Architect	m2	85
Carried Forward			R
ALTERATIONS DEMOLITIONS & REFURBISHMENT BTKM QUANTITY SURVEYORS			

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Brought Forward			R
10	Replace damaged, cracked, loose or untidy putty to existing glazing	m2	5
<b><u>CLEANING FLOORS</u></b>			
11	Clean up all enviro loo blocks internal floors	m2	65
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>Supplementary Preambles:</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>UNREINFORCED CONCRETE, ETC</u></b>			
<u>25Mpa/19mm Concrete</u>			
12	2Aprons cast in panels	m3	9
13	Ramp	m3	5
14	Thickening down apron on edge 110mm deep x 200mm wide	m	75
<b><u>CONCRETE SUNDRIES</u></b>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
15	Aprons and pavings to falls	m2	75
<b><u>TEST CUBES</u></b>			
16	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	4
Carried Forward			R
ALTERATIONS DEMOLITIONS & REFURBISHMENT BTKM QUANTITY SURVEYORS			

Brought Forward				R
<b><u>FORMWORK</u></b>				
<u>Rough formwork to sides:</u>				
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	75	
<b><u>CARPENTRY AND JOINERY</u></b>				
<b><u>Supplementary Preambles:</u></b>				
<u>Joinery:</u>				
<u>Descriptions of hardwood joinery shall be deemed to include punching nail heads and filling with matching wood filler and sinking and pelleting heads and nuts of bolts.</u>				
<u>Fixing:</u>				
<u>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</u>				
<u>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres.</u>				
<b><u>FRAMED DOORS, ETC</u></b>				
<u>Wrought meranti framed doors:</u>				
18	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	8	
Carried Forward				R
ALTERATIONS DEMOLITIONS & REFURBISHMENT BTKM QUANTITY SURVEYORS				

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Brought Forward				R
19	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	4	
<b><u>IRONMONGERY</u></b>				
<b><u>Supplementary Preambles:</u></b>				
<b><u>Finishes to ironmongery:</u></b>				
<b><u>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.</u></b>				
Descriptions:				
<b><u>Descriptions of ironmongery shall be deemed to include for fixing to wood, aluminium and steel.</u></b>				
<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>				
<u>Approved</u>				
20	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	15	
<b><u>LOCKS, ETC</u></b>				
<u>Approved</u>				
21	Three lever mortice lockset	No	8	
22	Two lever mortice lockset	No	4	
Carried Forward				R
ALTERATIONS DEMOLITIONS & REFURBISHMENT BTKM QUANTITY SURVEYORS				



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Brought Forward			R	
<b><u>HANDLES</u></b>				
<u>Aluminium Pull Handle</u>				
23	Set of two, 300mm pull handles fixed back to back on doors	No	2	
<b><u>DOORSTOPS</u></b>				
<u>Approved</u>				
24	38mm Diameter rubber door stop plugged	No	23	
<b><u>LETTERS, NAMEPLATES, ETC.</u></b>				
<u>"Union" or similar approved</u>				
25	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	8	
<u>"Vaal Paragon" or similar approved</u>				
26	32mm Type 9 back grab rail 800mm long plugged	No	1	
27	32mm Type 8 side grab rail 900mm girth plugged	No	1	
<b><u>BATHROOM FITTINGS</u></b>				
<b><u>"Kimberley-Clark" or Similar</u></b>				
28	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	15	
<b><u>Stainless steel</u></b>				
29	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	1	
<u>Sundries</u>				
30	Female SHE BIN plugged to walls including purpose-made steel protective cage	No	4	
Carried Forward			R	
ALTERATIONS DEMOLITIONS & REFURBISHMENT BTKM QUANTITY SURVEYORS				

Brought Forward			R
<b><u>METALWORK</u></b>			
<b><u>Supplementary Preambles:</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>WELDED SCREENS, GATES, ETC</u></b>			
<u>Steel gates and frames</u>			
31	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	8
<b><u>PLASTERING</u></b>			
<b><u>CEMENT SCREEDS TO CONCRETE</u></b>			
<u>Screeds to steel trowelled, on concrete:</u>			
32	30mm thick on floors	m2	65
<b><u>INTERNAL PLASTER</u></b>			
<u>Cement plaster steel trowelled on brickwork:</u>			
33	On walls	m2	300
<b><u>FLOOR AND WALLS SEALERS</u></b>			
<u>Minimum two coats approved epoxy coat:</u>			
34	On screed	m2	65
35	On internal textured plaster walls and floors in pit	m2	120
<b><u>PLUMBING AND DRAINAGE</u></b>			
<b><u>CLEANING, SERVICING, ETC OF EXISTING SANITARY FITTINGS, ETC</u></b>			
Carried Forward			R
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Brought Forward			R
	<u>Cleaning down, removing dirt, grime, marks, etc with approved chemical solution and disinfectant (external and internal surfaces):</u>		
36	Enviroloo, including emptying tank.	No	15
37	Concrete double bowl wash trough.	No	4
	<u>Servicing fittings, etc:</u>		
38	Check, adjust and service 15mm bibtap including replacing washers.	No	4
	<b><u>NEW SANITARY FITTINGS</u></b>		
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>		
39	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1
	<b><u>FITTINGS</u></b>		
40	Elbow taps	No	1
	<b><u>ENVIRO LOO COMPONENTS</u></b>		
	<u>Replace and install missing enviro loo components according to manufacturer's specification:</u>		
41	Toilet seat, lid & sticker Standard	No	15
42	Ceramic bowl - standard	No	5
43	Wall sign	No	15
44	Drying box	No	15
45	Urinal Evaporator tank with all accessories	No	1
46	Urinal ceramic bowl including pipe work to the evaporator tank	No	4
Carried Forward			R
ALTERATIONS DEMOLITIONS & REFURBISHMENT BTKM QUANTITY SURVEYORS			

ALTERATIONS  
DEMOLITIONS & REFURBISHMENT  
**BTKM QUANTITY SURVEYORS**

<p style="text-align: center;">Brought Forward</p> <p><u>Surfaces shall be thoroughly sanded, washed down (high pressure cleaning to external surfaces), scrubbed with sugar soap to remove dirt and other contaminants, rinsed and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and edges feathered. Areas containing algae shall be treated with sodium hypochlorite solution (household bleach) thinned 1 part bleach to 2 parts water. Cracks shall be opened, filled with 'Polycell Mendall 90' or equal and approved or 'Polycell Polyfilla' or equal and approved exterior filler, and sanded smooth. Bridge repaired areas with crack bridging compound (PWC 520). In the case of previously limewashed surfaces, completely remove all limewash if possible or at least wire brush and scrape down to achieve a 'grey state' exposure of the substrate and apply filler as indicated.</u></p> <p><u>Previously painted or unpainted granolithic surfaces:</u></p> <p><u>Surfaces shall be thoroughly sanded, washed down, scrubbed with sugar soap powder solution to remove dirt and other contaminants, rinsed and allowed to dry completely before any paint is applied.</u></p> <p><u>Previously painted galvanised metal surfaces:</u></p> <p><u>Surfaces shall be washed with sugar soap, rinsed with water, cleaned down to remove dirt and other contaminants and sanded lightly to provide key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and edges feathered. Any rust encountered shall be removed and bare metal areas cleaned with galvanised iron cleaner and spot primed with galvogrip metal primer.</u></p> <p><u>Previously painted wood surfaces:</u></p>	<p style="text-align: center;">R</p>
<p style="text-align: center;">Carried Forward</p> <p>ALTERATIONS DEMOLITIONS &amp; REFURBISHMENT BTKM QUANTITY SURVEYORS</p>	<p style="text-align: center;">R</p>

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Brought Forward			R
<p><u>Surfaces shall be scrubbed with sugar soap to remove dirt and other contaminants, rinsed with water, thoroughly sanded and cleaned down. Blistered or peeling paint shall be completely removed and edges feathered. Cracks and crevices shall be primed, filled with wood filler and sanded smooth. In the case of previously varnished surfaces, all existing varnish must be thoroughly sanded off before new coats are applied.</u></p> <p><b><u>PAINTWORK TO NEW WORK</u></b></p> <p><b><u>ON FLOATED PLASTER SURFACES</u></b></p> <p><u>Prepare surfaces, spot prime with Dulux Trade Alkali Resistant Plaster Primer and apply two coats Dulux Trade 100 Low Sheen acrylic emulsion paint:</u></p>			
49	On walls	m2	300
<p><b><u>ON WOOD</u></b></p> <p><u>Undercoat and minimum 2 coat gloss enamel</u></p>			
50	On doors (External)	m2	28
51	On doors (Internal)	m2	15
<p><b><u>ON FACE BRICKWORK</u></b></p> <p><u>Prepare surfaces and apply two coats Nova 1 Novabrick sealant:</u></p>			
52	On exterior walls.	m2	245
<p><b><u>ON METAL SURFACES</u></b></p> <p><u>Prepare surfaces and apply three coats Dulux Woodgard Interior/Exterior Timbavarnish:</u></p>			
53	On door frames.	m2	35
<b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b>			
Carried Forward			R
<p>ALTERATIONS DEMOLITIONS &amp; REFURBISHMENT BTKM QUANTITY SURVEYORS</p>			

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Brought Forward			R
<b><u>ON PREVIOUSLY PAINTED FIBRE-CEMENT SURFACES</u></b>			
<u>Prepare surfaces and apply one coat Dulux Trade Alkali Resistant Plaster Primer and two coats Dulux Weatherguard acrylic emulsion paint:</u>			
54	On fascias and bargeboards, including priming metal jointing strips.	m2	30
<b><u>ON PREVIOUSLY PAINTED METAL SURFACES</u></b>			
<u>Prepare surfaces, spot prime with Dulux Trade Steel Primer and apply one coat Dulux Trade Universal Undercoat and two coats Dulux Trade Gloss Enamel paint on factory primed steel:</u>			
55	On door frames etc.	m2	75
56	On gates (Measured over the full flat area of both sides)	m2	28
57	On windows (both sides measured over full flat area).	m2	25
<b><u>ON PREVIOUSLY PAINTED WOOD SURFACES</u></b>			
<u>Prepare surfaces and apply three coats Powafix Creosote wood preservative:</u>			
58	On members of exposed roof timbers at eaves, verges, etc.	m2	55
Carried to Final Summary			R
ALTERATIONS			
DEMOLITIONS & REFURBISHMENT			
BTKM QUANTITY SURVEYORS			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SITE CLEARANCE</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	100	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	100	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	13	
4	Pit	m3	33	
5	For aprons thickening	m3	1	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	5	
7	Hard rock	m3	2	
	<b>Carried Forward</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS EARTHWORKS <b>BTKM QUANTITY SURVEYORS</b>			



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Brought Forward			R
<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	10
<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	49
<u>Keeping excavations free of water.</u>			
10	Keeping excavations free of water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
11	Under floors, steps, pavings, etc.	m3	5
12	Backfilling to trenches, holes, etc.	m3	39
<u>Compaction of surfaces</u>			
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	38
14	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	22
Carried Forward			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS EARTHWORKS <b>BTKM QUANTITY SURVEYORS</b>			

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Brought Forward			R
15	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod <b>AASHTO</b> density	m2	27
	<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density tests	No	4
	<b><u>SOIL POISONING</u></b>		
	<u>Soil insecticide</u>		
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	33
18	To bottom of concrete aprons	m2	25
19	To bottoms and sides of trenches, etc.	m2	55
Carried Forward to Summary of Section No. 3			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS			
EARTHWORKS			
BTKM QUANTITY SURVEYORS			

Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
For preambles see "Specifications of materials and methods to				
be used - PW 371"				
<b><u>UNREINFORCED CONCRETE, ETC</u></b>				
<u>25Mpa/19mm Concrete</u>				
1	Strip footings	m3	5	
2	Ditto, but surface bed in pit	m3	2	
3	2Aprons cast in panels	m3	3	
4	Ramp	m3	1	
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	25	
6	Thickening down apron on edge 110mm deep x 200mm wide	m	25	
<b><u>REINFORCED CONCRETE, ETC</u></b>				
<u>25Mpa/19mm Concrete</u>				
7	Slabs	m3	3	
<b><u>CONCRETE SUNDRIES</u></b>				
<b>Carried Forward</b>				R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS CONCRETE,FORMWORK AND REINFORCEMENT <b>BTKM QUANTITY SURVEYORS</b>				

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Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
8	Aprons and pavings to falls	m2	25
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>		
9	Surface beds, slabs, etc.	m2	33
<b><u>TEST CUBES</u></b>			
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4
<b><u>FORMWORK</u></b>			
	<u>Rough formwork to sides:</u>		
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28
	<u>Permanent formwork to soffits:</u>		
12	Slabs propped up not exceeding 1.5m high	m2	3
13	Leave or form 500mm diameter opening in top of floor slab	No	5
<b><u>REINFORCEMENT</u></b>			
	<u>Mesh Reinforcement (measure nett)</u>		
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	33
Carried Forward to Summary of Section No. 3			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS CONCRETE, FORMWORK AND REINFORCEMENT BTKM QUANTITY SURVEYORS			

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Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>BRICKWORK</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<b><u>BRICKWORK</u></b>			
Sizes in descriptions			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
Hollow walls etc			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.			
User note: The above preamble generally applies for works in hot and humid coastal areas			
Face bricks			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b>Carried Forward</b>			
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS MASONRY <b>BTKM QUANTITY SURVEYORS</b>			
		R	

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Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>SAMPLES</u></b>			
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			
<b><u>FOUNDATIONS</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>			
1	One brick walls	m2	15
2	One brick walls in pit	m2	18
3	4Half brick corbelling in pit	m	25
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	4
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>FACE BRICKWORK</u></b>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
5	Half brickwork for face brick walls pointed both sides	m2	23
Carried Forward			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS MASONRY BTKM QUANTITY SURVEYORS			

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Brought Forward			R
6	One brickwork for face brick walls pointed both sides	m2	62
7	Extra over brickwork for face brickwork in beamfilling	m2	6
8	Fair raking and cutting	m	11
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>		
9	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	9
10	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	11
11	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	2
	<b><u>BRICKWORK SUNDRIES</u></b>		
	<u>Brick reinforcement</u>		
12	75mm Wide reinforcement built in horizontally	m	76
13	150mm Wide reinforcement built in horizontally	m	260
	<u>Turning pieces</u>		
14	220mm Wide turning piece to lintel etc	m	6
	<u>Galvanised wire ties etc</u>		
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	27
	<u>Prestressed fabricated lintels</u>		
16	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	8
	<b>Carried Forward</b>		
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS MASONRY <b>BTKM QUANTITY SURVEYORS</b>		

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	6	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	32	
	<b><u>FLOOR AND WALLS SEALERS</u></b>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames.	m	11	
	<b>Carried Forward to Summary of Section No. 3</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS WATERPROOFING			
	<b>BTKM QUANTITY SURVEYORS</b>			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u></b>			
1	Roof covering with pitch not exceeding 25 degrees	m2	36	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	37	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	8	
4	Extra over for closed ends	No	2	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	6	
	<b>Carried Forward</b>			
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS ROOF COVERINGS <b>BTKM QUANTITY SURVEYORS</b>			
			R	

Brought Forward			R
6	Extra over rainwater pipe for eaves offset	No	2
7	Ditto ,for shoe	No	2
Carried Forward to Summary of Section No. 3			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS			
ROOF COVERINGS			
BTKM QUANTITY SURVEYORS			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ROOFS, ETC.</u></b>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	42	
2	76 x 38mm Wall plates	m	8	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	47	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	29	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	18	
6	Hurricane clips	No	24	
	<b><u>EAVES, VERGES, ETC.</u></b>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	25	
	<b><u>DOORS, ETC.</u></b>			
	<b>Carried Forward</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS CARPENTRY AND JOINERY BTKM QUANTITY SURVEYORS			

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Brought Forward			R
<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	3
9	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	3
Carried Forward to Summary of Section No. 3			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS			
CARPENTRY AND JOINERY			
BTKM QUANTITY SURVEYORS			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>CATCHES, CABIN, HOOKS, ETC</u></b>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	3	
	<b><u>LOCKS</u></b>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	3	
3	Indicator lockset	No	3	
	<b><u>HANDLES</u></b>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	1	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	6	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<b>Carried Forward</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS IRONMONGERY <b>BTKM QUANTITY SURVEYORS</b>			

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Brought Forward			R	
	<u>"Union" or similar approved</u>			
6	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	3	
	<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	
<b><u>BATHROOM FITTINGS</u></b>				
	<u>"Kimberley-Clark" or Similar</u>			
9	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	4	
<b><u>Stainless steel</u></b>				
10	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	1	
	<u>Sundries</u>			
11	Female SHE BIN plugged to walls including purpose-made steel protective cage	No	1	
Carried Forward to Summary of Section No. 3			R	
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS				
IRONMONGERY				
BTKM QUANTITY SURVEYORS				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No	3	
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	3	
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	5	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	2	
	<b><u>WELDED SCREENS, GATES, ETC</u></b>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	3	
	<b>Carried Forward to Summary of Section No. 3</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS METALWORK			
	<b>BTKM QUANTITY SURVEYORS</b>			



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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 9</u></b>			
	<b><u>PLASTERING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>SELF-SMOOTHING EPOXY SCREEDS</u></b>			
	<u>Apply one coat 'Flowcrete Flowprime' solvent based epoxy sealer and penetrating coat and one 2mm thick coat 'Flowcrete Flowshield SL' epoxy, applied in strict accordance with manufacturer's specifications by approved 'Flowcrete' applicator:</u>			
1	On floors to falls	m2	32	
	<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	18	
	<b><u>FLOOR AND WALLS SEALERS</u></b>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	32	
4	On internal textured plaster walls and floors in pit	m2	18	
	<b>Carried Forward to Summary of Section No. 3</b>			
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS IN SITU FINISHES			
	<b>BTKM QUANTITY SURVEYORS</b>			
			R	

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ENVIRO-LOO TOILET SYSTEMS</u></b>			
1	Supply and Install "Enviro-Loo" Industrial 1040 Model, complete as per manufacturer's specification	No	4	
2	Supply and Install "Enviro-Loo" 1-bowl Urinal Evaporative Tank system complete as per manufacturer's specification	No	1	
3	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	
	<b><u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u></b>			
4	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1	
	<b><u>FITTINGS</u></b>			
5	19mm chrome plated push button taps to wash troughs	No	2	
6	Elbow taps	No	1	
	<b>Carried Forward</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS PLUMBING AND DRAINAGE <b>BTKM QUANTITY SURVEYORS</b>			

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Brought Forward				R
	<u>Sundires</u>			
7	Stainless-steel SHE-BIN plugged to walls including steel protective cage	No	1	
Carried Forward to Summary of Section No. 3				R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS PLUMBING AND DRAINAGE BTKM QUANTITY SURVEYORS				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>ON FIBRE-CEMENT</u></b>			
	<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	
	<b><u>ON WOOD</u></b>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	13	
3	On doors (External)	m2	11	
	<b><u>ON METAL</u></b>			
	<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	
	<b>Carried Forward</b>		R	
	3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS PAINTWORK <b>BTKM QUANTITY SURVEYORS</b>			

Brought Forward			R
	<u>Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>		
7	On windows with burglar bars	m2	6
<p><b>Carried Forward to Summary of Section No. 3</b></p> <p>3/1/1 SEATS, URINAL &amp; PARAPLEGIC STAFF TOILETS PAINTWORK</p> <p><b>BTKM QUANTITY SURVEYORS</b></p>			R

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Section No. 3

3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS

**SECTION SUMMARY - 3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILET**

Bill No		Page No	Amount
1	EARTHWORKS	50	
2	CONCRETE, FORMWORK AND REINFORCEMENT	52	
3	MASONRY	56	
4	WATERPROOFING	57	
5	ROOF COVERINGS	59	
6	CARPENTRY AND JOINERY	61	
7	IRONMONGERY	63	
8	METALWORK	64	
9	IN SITU FINISHES	65	
10	PLUMBING AND DRAINAGE	67	
11	GLAZING	68	
12	PAINTWORK	70	
Carried to Final Summary			R
3/1/1 SEATS, URINAL & PARAPLEGIC STAFF TOILETS			
BTKM QUANTITY SURVEYORS			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>STORMWATER CONTROL</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Earthworks</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	95	
2	Excavate in earth below natural, reduced or made up ground level, not exceeding 2m deep, to reduced levels under aprons, paving, etc	m3	20	
3	Extra over surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	20	
4	Extra over trench or hole for excavations in soft rock	m3	11	
5	Extra over trench or hole for excavations in hard rock	m3	7	
6	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	95	
7	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1m2	m2	95	
	<b>Carried Forward</b>		R	
	<b>EXTERNAL WORKS</b>			
	<b>STORMWATER CONTROL</b>			
	<b>BTKM QUANTITY SURVEYORS</b>			



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Brought Forward			R
<u>Reinforced Concrete</u>			
8	25Mpa/19mm Mass concrete in V-shaped channel 2000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, with and including one layer of ref.193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	256
9	Extra for fair open end	No	15
10	Extra for fair stopped end	No	15
11	Extra for angle intersection	No	20
Carried Forward to Summary of Section No. 4			R
EXTERNAL WORKS			
STORMWATER CONTROL			
BTKM QUANTITY SURVEYORS			

INDEPENDENT DEVELOPMENT TRUST  
WATER & SANITATION PROGRAMME  
TSEANA SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>PAVED WALKWAYS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Site Clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	230	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	230	
	<u>Open face excavation in earth over sloping site</u>			
3	Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep	m3	42	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	42	
	<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>			
5	Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density	m3	30	
	<b>Carried Forward</b>		R	
	EXTERNAL WORKS PAVED WALKWAYS <b>BTKM QUANTITY SURVEYORS</b>			

INDEPENDENT DEVELOPMENT TRUST  
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TSEANA SECONDARY SCHOOL

Brought Forward			R
<u>Compaction of surfaces</u>			
6	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	230
<u>Soil poisoning</u>			
7	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m <sup>2</sup> on cleared ground	m2	230
<u>60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:</u>			
8	Paving to toilet areas etc to falls	m2	230
9	25Mpa/19mm unreinforced concrete edge beam	m	300
<b>Carried Forward to Summary of Section No. 4</b>			R
EXTERNAL WORKS			
PAVED WALKWAYS			
<b>BTKM QUANTITY SURVEYORS</b>			

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>WATER TANKS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	4	
	<u>Extra over trench and hole excavations in earth for excavation in</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/stock piles on site to the dumping site to be located by the Contractor.	m3	4	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	10	
	<u>Keeping excavations free of water.</u>			
6	Keeping excavations free of water.		Item	
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>			
7	Backfilling to trenches, holes, etc.	m3	4	
	<b>Carried Forward</b>		R	
	EXTERNAL WORKS			
	WATER TANKS			
	<b>BTKM QUANTITY SURVEYORS</b>			

INDEPENDENT DEVELOPMENT TRUST  
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Brought Forward			R	
	<u>Soil insecticide</u>			
8	To bottoms and sides of trenches, etc.	m2	5	
	<u>15Mpa/19mm Concrete</u>			
9	Strip footings	m3	3	
10	Platform surface beds cast in panels	m3	1	
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
11	Platform surface beds	m2	3	
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
12	One brick walls	m2	9	
	<u>Brick reinforcement</u>			
13	150mm Wide reinforcement built in horizontally	m	25	
	<u>Face bricks pointed with recessed horizontal and vertical joints to match the existing.</u>			
14	Extra over brickwork for face brickwork in foundation	m2	7	
	<u>Extra over brickwork for face brickwork in foundation bricks pointed with recessed joints on all exposed faces to match the existing.</u>			
15	Coping on top of one brick wall	m	6	
	<u>One layer of 375 micron embossed black polyethylene damp proof course</u>			
16	On walls	m2	3	
Carried Forward			R	
EXTERNAL WORKS				
WATER TANKS				
BTKM QUANTITY SURVEYORS				

INDEPENDENT DEVELOPMENT TRUST  
WATER & SANITATION PROGRAMME  
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Brought Forward			R	
	<u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions.</u>			
17	Under surface beds	m2	3	
	<u>Galvanized medium normalized mild steel piping</u>			
18	25mm Pipes	m	15	
19	50mm Pipes	m	15	
	<u>Extra over galvanised mild steel water supply pipes for fittings:</u>			
20	25mm Fittings.	No	7	
21	50mm Elbows.	No	5	
22	50mm Union.	No	5	
23	50mm Reducing bush.	No	5	
24	15mm "Cobra Ref. 108LK" brass hose biptap.	No	1	
	<u>"Jojo" approved SANS PVC water tanks</u>			
25	5 000 Litre plastic water tank fitted onto and secured to tank platforms	No	1	
26	10 000 Litre plastic water tank fitted onto and secured to tank platforms	No	2	
Carried Forward to Summary of Section No. 4			R	
EXTERNAL WORKS				
WATER TANKS				
BTKM QUANTITY SURVEYORS				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>FENCING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>Welded mesh fence</u>			
1	1800mm High welded mesh fencing formed of 2.5 x 50mm galvanized welded mesh in long lengths, with three strands of 1.6mm galvanized steel wire at 150mm centres to and including four strings of 2.5mm galvanized steel binding wire stringed through holes and secured to straining bolts or posts ,10mm Diameter galvanized straining eye bolt 300mm long with nut and washer sawn off and bent after straining, 3150mm high, 50mm diameter x 2.8mm round mild steel intermediates posts with cover cap,Corner post formed of 100mm diameter x 3mm thick x 3150mm overall length steel post and 50mm Diameter x 2.6mm steel stays.	m	150	
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	2	
	<b>Carried Forward to Summary of Section No. 4</b>		R	
	EXTERNAL WORKS			
	FENCING			
	<b>BTKM QUANTITY SURVEYORS</b>			

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Section No. 4

EXTERNAL WORKS

**SECTION SUMMARY - EXTERNAL WORKS**

Bill No		Page No	Amount
1	STORMWATER CONTROL	73	
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3	WATER TANKS	78	
4	FENCING	79	
Carried to Final Summary			R
EXTERNAL WORKS			
BTKM QUANTITY SURVEYORS			



Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 5</u></b>			
<b><u>BILL NO.1</u></b>			
<b><u>PROVISIONAL SUMS</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
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".			
<b><u>N.B ALL PROVISIONAL WORKS ARE SUBJECT TO RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER THE WORK DONE</u></b>			
<b><u>Testing existing borehole, upgrade reticulation system and water filtration system:</u></b>			
1	Provide an amount of R180 000.00 (One Hundred and Eighty Thousand Rand and Zero Cents) for testing existing borehole, upgrading reticulation and installing water filtration system	Item	180 000.00
2	Allow for profit	Item	
3	Allow for attendance	Item	
<b>Carried Forward</b>			R
PROVISIONAL SUMS PS, PROFIT & ATTENDANCE <b>BTKM QUANTITY SURVEYORS</b>			

**INDEPENDENT DEVELOPMENT TRUST  
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<b>Brought Forward</b>		R	
<b><u>Structural Steel Stands:</u></b>			
4	Provide an amount of R240 000.00 (Two Hundred and Forty Thousand Rand and Zero Cents) for two (2) structural steel stands	Item	240 000,00
5	Allow for profit	Item	
6	Allow for attendance	Item	
<b><u>Lockable fabricated steel manhole for borehole pumps:</u></b>			
7	Provide an amount of R6 500.00 (Six Thousand Five Hundred Rand and Zero Cents) for a lockable fabricated steel manhole for borehole pump	Item	6 500,00
8	Allow for profit	Item	
9	Allow for attendance	Item	
<b><u>YBE (Youth Built Environment):</u></b>			
10	Provide an amount of R19 000.00 (Nineteen Thousand Rand and Zero Cents) for Youth Built Environment mentoring programme (one candidate)	Item	19 000,00
11	Allow for profit	Item	
12	Allow for attendance	Item	
<b><u>CLO (Community Liaison Officer):</u></b>			
13	Provide an amount of R35 000.00 (Thirty Five Thousand Rand and Zero Cents) for a Community Liaison Officer monthly wages for 7 Months	Item	35 000,00
14	Allow for profit	Item	
15	Allow for attendance	Item	
<b>Carried to Final Summary</b>		R	
PROVISIONAL SUMS			
PS, PROFIT & ATTENDANCE			
<b>BTKM QUANTITY SURVEYORS</b>			

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