

## C2.2: BILL OF QUANTITIES

The priced Bill of Quantities (BOQ's), following hereafter will form an integral part of the "Contract" between the successful appointed Contractor and the Employer.

It is compulsory for the Tenderer to complete the Bill of Quantities in full. Failure to complete the Bill of Quantities in full be disqualified.

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described			
The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities			
Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof			
These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents			
Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"			
Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence			
<b><u>PREAMBLES FOR TRADES</u></b>			
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			
<b>Carried Forward</b>		R	
Bill No. 1 Preliminaries and General Items			

<p style="text-align: center;"><b>Brought Forward</b></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><b><u>Objective and Preparation (A2 to A14)</u></b></p> <p>2 Offer acceptance and performance (clause 2)</p> <p>F:..... V:..... T:.....</p> <p>3 Documents (clause 3)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Bill No. 1 Preliminaries and General Items</p>	<p style="text-align: center;">Item</p> <p style="text-align: center;">Item</p> <p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>	
--	---	--------------------------------------	--

Brought Forward		R	
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		
	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	
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			

Brought Forward		R	
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	
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			

Brought Forward		R	
<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	
20	Nominated subcontractors (clause 20)  F:..... V:..... T:.....	Item	
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			

Brought Forward			R
21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>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</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p>	Item	
22	<p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p>	Item	
23	<p>Contractor's Domestic Sub-Contractors (Clause 23)</p> <p>F:..... V:..... T:.....</p>	Item	
<b><u>Completion (A24-A30)</u></b>			
24	<p>Practical completion (clause 24)</p> <p>F:..... V:..... T:.....</p>	Item	
25	<p>Works completion (clause 25)</p> <p>F:..... V:..... T:.....</p>	Item	
26	<p>Final completion (clause 26)</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
Bill No. 1 Preliminaries and General Items			

Brought Forward		R	
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:.....	Item	
	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)		
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	
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			



	<b>Brought Forward</b>		R	
	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		
	<b>Carried Forward</b>		R	
	Bill No. 1 Preliminaries and General Items			

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	
Bill No. 1 Preliminaries and General Items			

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>THE SCHEDULE</u></b></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p>42 Pre-tender information (clause 42)</p> <p>F:..... V:..... T:.....</p> <p><b><u>42.1 CONTRACTING AND OTHER PARTIES</u></b></p> <p>42.1.1 Employer: As per infomation on the tender data</p> <p>42.1.2 Principal Agent: As per the infomation on the Tender data</p> <p>42.1.3 Architect: Afro Architectural</p> <p>42.1.4 Quantity Surveyor:</p> <p>Structural :</p> <p>42.1.5 Civil:</p> <p>42.1.6 Electrical Engineer:</p> <p>42.1.6 Mechanical Engineer:</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Bill No. 1 Preliminaries and General Items</p>	<p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>	
--	--	---	--------------------------------------	--

Brought Forward	R	
<b>42.2 CONTRACT DETAILS</b>		
42.2.1 Works Description: Construction of sanitation facilities		
42.2.2 Site Description: as per the infomation on the tender data		
42.2.3 Work or installations by direct contractors: N/A		
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a <b>State</b> organ only Yes		
42.2.5 Date on which possession of the site is intended to be given: UNKNOWN		
42.2.6 Period for the commencement of the works after the contractor takes posse		
42.2.7 For the works <b>as a whole</b> . Intended date of practical completion and the penalty per calendar day		
2 months after contractual commencement date <i>Date</i>  <i>Penalty Amount</i> <i>The penalty per <b>calender day</b> shall be 0.05% of the tendered amount ( inclusive of value added tax)</i>		
Carried Forward	R	
Bill No. 1 Preliminaries and General Items		

<p style="text-align: right;"><b>Brought Forward</b></p> <p>42.2.8 For the works in <b>sections</b>: Intended date of practical completion and the penalty per calender day</p> <p style="text-align: right;"><b>Section 1</b></p> <p style="text-align: right;">.N/A..... <i>Date</i></p> <p style="text-align: right;">R.N/A..... <i>Penalty Amount</i></p> <p>42.2.9 The <b>law</b> applicable to this <b>agreement</b> shall be that of</p> <p style="text-align: right;"><i>South Africa (country)</i></p> <p><b><u>42.3 INSURANCES</u></b></p> <p>42.3.1 Contract works insurance to be effected by:</p> <p style="text-align: right;"><i>Contractor:</i></p> <p style="text-align: right;"><i>For the Sum of R Contract Amount + 20.00 %</i></p> <p style="text-align: right;"><i>With a deductible of - to be determined by the contractor</i></p> <p>42.3.2 Supplementary insurance is required</p> <p style="text-align: right;"><i>No</i></p> <p>42.3.3 Public liability insurance to be effected by:</p> <p style="text-align: right;"><i>Contractor:</i></p> <p style="text-align: right;"><i>For the Sum of R 2 500 000-00</i></p> <p style="text-align: right;"><i>With a deductible of - to be determined by the contractor</i></p> <p><b><u>42.4 DOCUMENTS</u></b></p> <p>42.4.1 Waivers of <b>contractors lien</b> or right of continuing possession is required</p> <p style="text-align: right;"><i>Yes</i></p> <p>42.4.2 Number of construction document copies to be supplied to the <b>contractor</b> free of charge:</p> <p style="text-align: right;"><i>3 Number of</i></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Bill No. 1 Preliminaries and General Items</p>	<p style="text-align: right;">R</p> <hr/> <p style="text-align: right;">R</p>
--	---

<b>Brought Forward</b>		R	
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”		
42.4.4	On acceptance of the tender the bills of quantities/lump sum document is to be submitted within <b>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>Yes</i>  Where <b>JBCC CPAP</b> is to be used <i>Base Month July 2010</i>		
42.4.7	Details of changes made to the provision of JBCC standard documentation:		
<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	
Bill No. 1 Preliminaries and General Items			

Brought Forward		R	
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	
	<b>Carried Forward</b>	R	
	Bill No. 1 Preliminaries and General Items		

Brought Forward		R	
53	Existing premises occupied (B3.4)		
	F:..... V:.....		
	T:.....		
54	Previous work - dimensional accuracy (B3.5)		
	F:..... V:.....		
	T:.....		
55	Previous work - defects (B3.6)		
	F:..... V:.....		
	T:.....		
56	Services - known (B3.7)		
	F:..... V:.....		
	T:.....		
57	Services - unknown (B3.8)		
	F:..... V:.....		
	T:.....		
58	Protection of trees etc (B3.9)		
	F:..... V:.....		
	T:.....		
59	Articles of value (B3.10)		
	F:..... V:.....		
	T:.....		
Carried Forward		R	
Bill No. 1			
Preliminaries and General Items			



<b>Brought Forward</b>			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		
<b>Carried Forward</b>			R	
Bill No. 1 Preliminaries and General Items				

Brought Forward		R	
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	
<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	
<b>Carried Forward</b>		R	
Bill No. 1 Preliminaries and General Items			

	<b>Brought Forward</b>		R	
72	Subcontractors' notice board (B6.6)			
	F:..... V:..... T:.....	N/A		
	<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		
	<b>Carried Forward</b>		R	
	Bill No. 1 Preliminaries and General Items			

<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	
Bill No. 1 Preliminaries and General Items				

Brought Forward		R	
<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	
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			

Brought Forward		R	
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)		
12.1.5	Geotechnical investigation (B3.2)		
	N/A		
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			

<b>Brought Forward</b>		R		
12.1.6 Existing premises occupied (B3.4)				
12.1.7 Previous work - dimensional accuracy (B3.4)				
12.1.8 Previous work - defects (B3.5)				
12.1.9 Services - known (B3.7)				
12.1.10 Protection of trees (B3.9)				
All trees should be protected and only on instruction of the Principal Agent may any trees be removed				
12.1.12 Enclosure of the works (B6.2)				
12.1.11 Inspection of adjoining properties (B3.11)				
12.1.13 Offices (B6.4.3)				
An office for the clerck of works should be provided				
12.1.14 Main notice board (B6.5)				
	YES			
12.1.15 Subcontractors notice board (B6.6) A notice board is required				
	No			
12.1.16 Water (B7.2) Alternative Selected: A				
12.1.17 Electricity (B7.3) Alternative selected: A				
12.1.18 Telecommunications (B7.4)				
<b>Carried Forward</b>		R		
Bill No. 1 Preliminaries and General Items				

<p style="text-align: center;"><b>Brought Forward</b></p> <p>12.1.19 Ablution facilities (B7.5) Alternative selected: A</p> <p>12.1.20 Protection of existing/sectionally occupied works (B11.2)</p> <p>12.1.21 Special attendance (B9.2) Subcontractor (1) details: N/A</p> <p>12.1.22 Protection of the works (B11.1) N/A</p> <p>12.1.23 Disturbance (B11.5) N/A</p> <p>12.1.24 Environmental Disturbance (B11.6) N/A</p> <p><b><u>Post tender information (B12.2)</u></b></p> <p>12.2.1 Payment of preliminaries Alternative selected: B</p> <p>12.2.2 Adjustment of preliminaries Alternative selected: A</p> <p>12.2.3 Additional agreed preliminaries items N/A</p> <p><b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b></p> <p>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</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Bill No. 1 Preliminaries and General Items</p>		R	
---	--	---	--



Brought Forward		R	
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	Black economic empowerment and training  F: ..... V: ..... T: .....	Item	
100	Proprietary branded products  F: ..... V: ..... T: .....	Item	
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	
Carried Forward		R	
Bill No. 1 Preliminaries and General Items			

	<b>Brought Forward</b>		R	
103	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		
104	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		
105	Guarantees  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Bill No. 1 Preliminaries and General Items			

-92-

<b>Brought Forward</b>			R	
	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors			
108	Occupational Health and Safety Specification  F:..... V:..... T:.....	Item		
	Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained			
109	Preparation and Submission of Project specific SHE plan and safety file based on the Health & Safety specification Fixed:..... Value related:..... Time related: .....	Item		
110	Personal Protective clothing / Equipment and ensure use thereof for full compliance Fixed:..... Value related:..... Time related: .....	Item		
111	C10.3 Medical certificates of fitness (entry and exit) for Contractor's employees Fixed:..... Value related:..... Time related: .....	Item		
<b>Carried Forward</b>			R	
Bill No. 1 Preliminaries and General Items				

112

**Brought Forward**

C10.4 Compliance with the Covid-19 Occupational  
Health and Safety Measures in Workplaces as per item  
12.9 of the Health & Safety Specifications

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time  
related: \_\_\_\_\_

Item

R

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Summary**

R

Bill No. 1  
Preliminaries and General Items

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 2</u></b>			
	<b><u>EARTHWORKS (PROVISIONALS)</u></b>			
	<b><u>DEMOLITIONS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	NOTE			
	Contractor rates for demolitions shall include for carting away and disposal of debris to a tip to be found by the contractor unless specificl instructed otherwise.			
1	Take out and remove existing galvanised IBR toilet size 1000 x 750 x 1 950mm high from concrete slab and including steel structure and cartaway from site	No	6	
2	Demolish concrete slab	m3	7.00	
3	Hardcore filling to pit	m3	100.00	
4	Desludge and disinfect existing pit	Item		
	<b><u>SITE CLEARANCE</u></b>			
5	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	54	
6	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	18	
	<b><u>EXCAVATION,FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
7	Trenches	m3	7	
8	Pit	m3	4	
9	For aprons thickening	m3	1	
	<b>Carried Forward</b>		R	
	Bill No. 2 Foundations(Provisional)			

Brought Forward				R
<u>Extra over trench and hole excavations in earth for excavation:</u>				
10	Soft rock	m3	2	
11	Hard rock	m3	2	
<u>Extra over all excavations for carting away:</u>				
12	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	5	
<u>Risk of collapse of excavations</u>				
13	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	45	
<u>Keeping excavations free of water.</u>				
14	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>				
15	Under floors, steps, pavings, etc.	m3	4	
16	Backfilling to trenches, holes, etc.	m3	3	
<u>Compaction of surfaces</u>				
17	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	14	
18	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	10	
Carried Forward				R
Bill No. 2 Foundations(Provisional)				

Brought Forward			R
19	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	22
	<u>Prescribed density tests on filling</u>		
20	Modified AASHTO Density tests	No	1
	<b><u>SOIL POISONING</u></b>		
	<u>Soil insecticide</u>		
21	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	14
22	To bottom of concrete aprons	m2	22
23	To bottoms and sides of trenches, etc.	m2	40
	<b><u>CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<u>20MPa/19mm concrete</u>		
24	Strip footings	m3	3
25	Surface bed in pit	m3	1
	<b><u>TEST CUBES</u></b>		
26	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 (one block to be tested after 7 days).	Sets	1
	<b><u>BRICKWORK IN FOUNDATIONS</u></b>		
	<u>Brickwork of NFP bricks in class II mortar</u>		
27	One brick walls in pit	m2	27
	<b><u>BRICKWORK SUNDRIES</u></b>		
Carried Forward			R
Bill No. 2 Foundations(Provisional)			



-98-

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.3</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	Surface beds cast in panels on waterproofing.	m3	1	
2	Surface bed in pit	m3	1	
3	Aprons cast in panels	m3	2	
4	Thickening down apron on edge 110mm deep x 200mm wide	m	22	
	<b><u>REINFORCED CONCRETE, ETC</u></b>			
	<u>25Mpa/19mm Concrete</u>			
5	Slabs	m3	2	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
6	Aprons and pavings to falls	m2	22	
	<b><u>TEST CUBES</u></b>			
7	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.	Sets	4.0	
	<b>Carried Forward</b>		R	
	Bill No. 3 Concrete, Formwork and Reinforcement			

-100-

-101-

-102-

-103-

Item No		Quantity	Rate	Amount
	<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	6	
	<b><u>DOORSTOPS</u></b>			
	<u>Approved</u>			
2	38mm Diameter rubber door stop plugged	No	6	
	<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
	<u>"Union" or similar approved</u>			
3	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	5	
4	"DISABLED TOILETS" sign plate drilled and screwed to door with chromium plated domeheaded screws	No	1	
	<u>"Vaal Paragon" or similar approved</u>			
5	32mm Type 9 back grab rail 800mm long plugged	No	1	
6	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<b><u>BATHROOM FITTINGS</u></b>			
	<b><u>"Kimberley-Clark" or Simlilar</u></b>			
7	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	6	
	<b>Carried Forward</b>		R	
	Bill No. 7 Ironmongery			

-105-



-106-

-107-

-108-

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 11</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Aluzink seamless metal gutters:</u></b>			
1	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	6	
2	Extra over for closed ends	No	1	
3	Extra over rainwater pipe for eaves offset	No	1	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u></b>			
4	Approved toilet seat	No	5	
5	Vaal Sanitaryware 600 x 385 x 380mm Lavatera white vitreous china wall mounted top inlet urinal (code: 705426) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated top inlet spreader spreader (code: 7054Z1), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (code: 8127Z0)	No	1	
6	"Vaal hibiscus" or similar approved wash hand basin bolted to wall including all fittings and necessary brackets	No	6	
	<b><u>"Cobra Watertech"</u></b>			
7	Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.	No	6	
	<b>Carried Forward</b>		R	
	Bill No. 11 Plumbing and Drainage			

Brought Forward			R
<b><u>TRAPS ETC</u></b>			
8	"Cobra Ref. 365/40" CP bottle trap	No	6
<b><u>SANITARY PLUMBING</u></b>			
<u>uPVC pipes</u>			
9	50mm Pipes	m	12
10	50mm Pipes laid in and including trenches n.e 1m deep	m	6
<u>Extra over uPVC pipes for fittings</u>			
11	50mm Bend	No	6
12	50mm Junction	No	6
<b><u>WATER SUPPLIES</u></b>			
<u>uPvc pipes</u>			
13	25mm Pipes	m	12
<u>Extra over uPVC pipes for capillary fittings</u>			
14	25mm Fittings	No	18
15	"Cobra Ref. 232/350" Angle regulating valve	No	5
16	Elbow taps	No	6
<u>Gratings, covers, etc</u>			
17	Inspection chamber with lockable steel lid and stay (Prime cost amount of R 2000.00 each excluding vat for supply and installation)	m2	6
18	Precast concrete manhole cover and frame	No	1.00
19	Lifting key for manhole cover	No	1.00
<b><u>RAINWATER TANKS AND STANDS</u></b>			
Carried Forward			R
Bill No. 11 Plumbing and Drainage			

Brought Forward			R	
<u>Rainwater tanks:</u>				
20	2 500 Litre Polyethylene vertical water tank with and including two filters complete with support structure as per Engineer's details	No	1.00	
21	Hole through top of tank lid for 100mm diameter pipe.	No	1.00	
<b><u>TESTING</u></b>				
22	Allow for filling up water tanks and testing for leak detection		Item	
<u>French Drain</u>				
23	French drain 4250mm long x 300mm wide x 900mm deep extreme including all necessary excavation complete with and including 110mm diameter porous pvc pipe 4000mm long and trench backfilled with dump rock surround to pvc pipe and to 500 x 500 x 500mm manhole at the outlet of the pvc pipe and top layer filled with and including gravel or 13mm stone filling including carting away surplus materials from the excavations.	No	1.00	
<b><u>Ventilation pipe</u></b>				
24	110mm Diameter uPVC ventilation pipe with cowl and gaze on top	No	6	
Carried to Summary			R	
Bill No. 11 Plumbing and Drainage				

-112-

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 13</u></b>			
	<b><u>WALKWAYS</u></b>			
	<u>Preambles and Descriptions</u>			
	Tenderers are referred to other Sections for preambles and full descriptions of materials and items not fully described in this Section and which shall apply equally to work in this Section, unless otherwise described.			
	<u>General</u>			
	All earthworks, filling, paving, roads, etc. must be in accordance with the applicable clauses of SABS 1200, supplemented by "Preambles to all Trades" and in the case of discrepancies the latter will take preference. All measuring and descriptions is still done in accordance with the applicable issue and ammedments of the "Standard System of Measuring Building Work"			
	<u>Excavations</u>			
	Prices of excavations are to include for putting aside excavated material to be used as filling where applicable , keeping suitable filling material clean and depositing and handling it in such a way to prevent mixing with unsuitable material as far as possible			
	Depositing excavated material in stock piles on site for use as filling or to be carted away is only measured where the stock piles are prescribed			
	<u>Filling</u>			
	Before any material is used for filling, complete test results must be submitted to the Engineer for his approval and prices are to include therefor.			
	The provision of suitable filling material and the location of depositing grounds , etc. are the sole responsibility of the Contractor and prices are to include for all transportatation			
	<b>Carried Forward</b>		R	
	Bill No. 13 Walkways (Provisional)			



Brought Forward			R
<b><u>Site Clearance etc</u></b>			
1	Clean site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	153
<b><u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level</u></b>			
2	Reduced levels under paving	m3	27
<b><u>Extra over all excavations for carting away</u></b>			
3	Surplus excavated material to a dumping site to be located by the Contractor	m3	27
<b><u>Keeping excavations free of water</u></b>			
4	Keeping excavations free of all water other than subterranean water	Item	
<b><u>Compaction of surfaces</u></b>			
5	Scarify earth surface to a depth of 150mm, breaking down over size material and reconsolidate to 93% modified AASHTO density	m2	90
<b><u>Approved gravel filling supplied and carted on by the Contractor, spread, levelled, well watered and compacted in layers not exceeding 150mm to a density of 93% modified AASHTO</u></b>			
6	Walkways, yards, etc	m3	41
<b><u>Pavers</u></b>			
7	50mm Thick class 25Mpa plain concrete interlocking paving blocks	m2	90
<b><u>Kerbs, etc</u></b>			
8	Precast concrete figure 7 kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	75
Carried Forward			R
Bill No. 13 Walkways (Provisional)			

Brought Forward				R
<b><u>25mm River sand</u></b>				
9	Under concrete pavers	m2	90	
<b><u>Approved weed killer</u></b>				
10	Hyvar X or other equally approved soil herbicide at a rate of 50 gram/m2 under paving etc.	m2	90	
<b><u>CONCRETE</u></b>				
<b><u>Concrete tests</u></b>				
11	Prepare set of three concrete cubes each size 150 x 150 x 150mm and deliver to an approved laboratory for testing and pay all charges <b><u>(Provisional)</u></b>	Sets	1	
<b><u>Mass concrete (20Mpa) in :</u></b>				
12	Ramps	m3	1	
<b><u>Sundries</u></b>				
13	Finishing top surfaces of concrete to an evenly brushed non-slip surface to falls (Provisional)	m2	6	
<b><u>ROUGH FORMWORK</u></b>				
<b><u>General formwork</u></b>				
14	Edges, risers, ends and reveals not exceeding 300mm high or wide (Provisional)	m	8	
<b><u>STEEL HANDRAILS, BALUSTRADES, ETC</u></b>				
<b><u>Welded balustrading to ramp</u></b>				
15	1 050mm High Balustrades formed with 50 x 50mm hollow section top and bottom rails, 50 x 50mm hollow section vertical posts at 1000mm centres with 100 x 100 x 3mm base plate bolted four times to concrete floor with M16 expansion bolts including 25 x 25 hollow section vertical intermediate members at 10mm spacings and close end to rails and posts	m	10	
<b>Carried to Summary</b>				R
Bill No. 13				
Walkways (Provisional)				

Item No		Quantity	Rate	Amount
	<b><u>BILL NO.14</u></b>			
	<b><u>SUB-SOIL DRAINAGE</u></b>			
	<u>Preambles and Descriptions</u>			
	Tenderers are referred to other Sections for preambles and full descriptions of materials and items not fully described in this Section and which shall apply equally to work in this Section, unless otherwise described.			
	<u>General</u>			
	All earthworks, filling, paving, roads, etc. must be in accordance with the applicable clauses of SABS 1200, supplemented by "Preambles to all Trades" and in the case of discrepancies the latter will take preference. All measuring and descriptions is still done in accordance with the applicable issue and ammedments of the "Standard System of Measuring Building Work"			
	<u>Excavations</u>			
	Prices of excavations are to include for putting aside excavated material to be used as filling where applicable , keeping suitable filling material clean and depositing and handling it in such a way to prevent mixing with unsuitable material as far as possible			
	Depositing excavated material in stock piles on site for use as filling or to be carted away is only measured where the stock piles are prescribed			
	<u>Filling</u>			
	Before any material is used for filling, complete test results must be submitted to the Engineer for his approval and prices are to include therefor.			
	The provision of suitable filling material and the location of depositing grounds , etc. are the sole responsibility of the Contractor and prices are to include for all transportatation			
	<b>Carried Forward</b>		R	
	Bill No. 14 Sub-soil Drainage (Provisional)			

Brought Forward			R
<b><u>Site Clearance etc</u></b>			
1	Clean site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	25
<b><u>Excavations not exceeding 2m deep</u></b>			
2	Excavate trench for pipe	m3	30
<b><u>Risk of collapse</u></b>			
3	To sides of trench	m2	100
<b><u>Keeping excavations free of water</u></b>			
4	Allow for pumping out water and keeping trench free of water		Item
<b><u>Backfilling</u></b>			
5	Imported G5 material fully compacted	m3	15
6	Selected fill material from excavations	m3	14
<b><u>Floor-drain</u></b>			
7	(Keytech) geosynthetics or approved equal filter blanket including side and end laps minimum 300mm	m2	59
<b><u>Geo Pipes</u></b>			
<b><u>Slotted uPvc flexible drainage pipes</u></b>			
8	160mm Geo pipe laid to slope	m	25
<b><u>Extra over uPvc pipes for fittings</u></b>			
9	160mm end cap	No	1
10	160mm bend	No	1
11	160mm access bend	No	1
<b>Carried to Summary</b>			R
Bill No. 14			
Sub-soil Drainage (Provisional)			

-118-

Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries and General Items	94	
2	Foundations(Provisional)	98	
3	Concrete, Formwork and Reinforcement	100	
4	Precast concrete	101	
5	Waterproofing	102	
6	Roof coverings	103	
7	Ironmongery	105	
8	Structural steelwork	106	
9	Metalwork	107	
10	In situ finishes	108	
11	Plumbing and Drainage	111	
12	Paintwork	112	
13	Walkways (Provisional)	115	
14	Sub-soil Drainage (Provisional)	117	
15	Provisional sums	118	
	Sub Total		R
	<b><u>CONTINGENCIES</u></b>		
	Allowance for Contingency amount at 5% (Five percent) of Sub-Total above, to be used at the discretion of the Employer or His appointed Agent and deducted in whole or in part if not required	Item	
	Sub Total		R
	<u>Add:</u> Value Added Tax at 15%		R
	<b>Carried to Form of Tender</b>		R