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	<p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (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 (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>			
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<p><u>PREAMBLES FOR TRADES</u></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><u>GENERAL</u></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><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions (A1)</u></p> <p>1 Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p> <p><u>Objective and Preparation (A2 to A14)</u></p> <p>2 Offer acceptance and performance (clause 2)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 SECTION No. 1: PRELIMINARIES Bill No. 1 PRELIMINARIES</p>	<p>Item</p> <p>Item</p>	<p></p> <p></p>	<p></p> <p></p> <p style="text-align: center;">R</p>
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3	<p>Documents (clause 3)</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Design responsibility (clause 4)</p> <p>F:..... V:..... T:.....</p>	Item		
5	<p>Employer's agents (clause 5)</p> <p>F:..... V:..... T:.....</p> <p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>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</p> <p>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</p>	Item		
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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		
13	NO CLAUSE	N/A		
14	Security (clause 14)			
	F:..... V:..... T:.....	Item		
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	<u>Execution (A15-A23)</u>				
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			
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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> <p><u>Completion (A24-A30)</u></p>	Item			
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			
27	<p>Latent defects liability period (clause 27)</p> <p>F:..... V:..... T:.....</p>	Item			
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28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29) F:..... V:..... T:..... The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
30	Penalty for non-completion (clause 30) F:..... V:..... T:..... <u>Payment (A31 - A35)</u>	Item		
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:..... Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing	Item		
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33	Recovery of expense and loss (clause 33) F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34) F:..... V:..... T:..... The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account	Item		
35	Payment to other parties (clause 35) F:..... V:..... T:..... <u>Cancellation (A36-A39)</u>	Item		
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item		
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38	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>F:..... V:..... T:.....</p>	Item		
39	<p>Cancellation - cessation of the works (clause 39)</p> <p>F:..... V:..... T:.....</p> <p><u>Dispute (A40)</u></p>	Item		
40	<p>Dispute Settlement (clause 40)</p> <p>F:..... V:..... T:.....</p> <p><u>Substitute Provisions (A41)</u></p>	Item		
41	<p>State clauses (Clause 41)</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p><u>THE SCHEDULE</u></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>	Item		
42	<p>Pre-tender information (clause 42)</p> <p>F:..... V:..... T:.....</p>	Item		
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42.1 CONTRACTING AND OTHER PARTIES

42.1.1 Employer's Agent:

**THE KWAZULU-NATAL DEPARTMENT OF
COOPERATIVE GOVERNANCE AND TRADITIONAL
AFFAIRS**

Physical Address:

14th Floor Natalia Building
330 Langalibalele Street
Pietermaritzburg
3201

Telephone: (033) 345 6432

42.1.2 Architects and Principal Agents:

Physical Address:

Tel:
Fax:

42.1.3 Quantity Surveyor:

Physical Address:

Tel:
Fax:

42.1.4 Civil and Structural Engineers:

Physical Address:

Tel :
Fax:

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42.1.5 Electrical and Mechanical Engineers:

Physical Address:

Tel :

Fax:

42.2 CONTRACT DETAILS

42.2.1 Works Description:

42.2.2 Site Description:

42.2.3 Work or installations by direct contractors:

N/A

42.2.4 This agreement is for a government contract
where there are specific options that are
applicable to a **State** organ only

Yes

42.2.5 Date on which possession of the site is intended
to be given:

TBA

42.2.6 Period for the commencement of the works after
the contractor takes possession

Five (05) Days

42.2.7 For the works **as a whole**. Intended date of
practical completion and the penalty per
calendar day

TBA

Penalty Amount
5.00 cents per R100 of the total contract amount

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42.2.8 For the works in **sections**: Intended date of practical completion and the penalty per calendar day

N/A

42.2.9 The **law** applicable to this **agreement** shall be that of

South Africa (country)

42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

Contractor:

For the Sum of R Contract Amount + 10.00 %

With a deductible of - to be determined by the contractor

42.3.2 Supplementary insurance is required

No

42.3.3 Public liability insurance to be effected by:

Contractor:

For the Sum of R 1 000 000-00

With a deductible of - to be determined by the contractor

42.4 DOCUMENTS

42.4.1 Waivers of **contractors lien** or right of continuing possession is required

Yes

42.4.2 Number of construction document copies to be supplied to the **contractor** free of charge:

3 Number of

42.4.3 **Bills of Quantities/Lump sum document** schedule of rates drawn up in accordance with:

"Standard System of Measuring Builders' Work"

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Interests of agents (B2.4)			
F:..... V:..... T:.....	Item		
Priced documents (B2.5)			
F:..... V:..... T:.....	Item		
Tender submission (B2.6)			
F:..... V:..... T:.....	Item		
<u>The site (B3)</u>			
Defined works area (B3.1)			
F:..... V:..... T:.....	Item		
Geotechnical investigation (B3.2)			
F:..... V:..... T:.....	Item		
Inspection of the site (B3.3)			
F:..... V:..... T:.....	Item		
Existing premises occupied (B3.4)			
F:..... V:..... T:.....			
Previous work - dimensional accuracy (B3.5)			
F:..... V:..... T:.....			
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68	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
69	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
<u>Temporary works and plant (B6)</u>				
70	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
71	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
72	Advertising (B6.3) F:..... V:..... T:.....	Item		
73	Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:.....	Item		
74	Main notice board (B6.5) F:..... V:..... T:.....	N/A		
75	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	N/A		
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89	Protection/isolation of existing/sectionally occupied works (B11.2)				
	F:..... V:..... T:.....	N/A			
90	Security of the Works (B11.3)				
	F:..... V:..... T:.....	Item			
91	Notice before covering work (B11.4)				
	F:..... V:..... T:.....	Item			
92	Disturbance (B11.5)				
	F:..... V:..... T:.....	Item			
93	Environmental Disturbance (B11.6)				
	F:..... V:..... T:.....	Item			
94	Works cleaning and clearing (B11.7)				
	F:..... V:..... T:.....	Item			
95	Vermin (B11.8)				
	F:..... V:..... T:.....	Item			
96	Overhand work (B11.9)				
	F:..... V:..... T:.....	Item			
97	Instruction manuals and guarantees (B11.10)				
	F:..... V:..... T:.....	Item			
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98	As built information (B11.11) F:..... V:..... T:.....	Item		
99	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
	<u>Schedule of variables (B12)</u>			
100	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			
	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)			
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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)			
	An office for the clerck of works should be provided			
12.1.14	Main notice board (B6.5)			
	No			
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)			
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			

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103	<p>Proprietary branded products</p> <p>F:..... V:..... T:.....</p>	Item		
104	<p>Testing of flat roof waterproofing for watertightness</p> <p>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</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
105	<p>Contract instructions</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
106	<p>Labour record</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
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107	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
108	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
109	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
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110	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
111	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occopational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation 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</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item		
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Section No. 2
SECTION No. 2: BUILDING WORKS
Bill No. 1
EARTHWORKS (PROVISIONAL)

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	<p><u>SECTION 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
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	<p><u>SECTION 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>BRICKWORK</u></p> <p><u>SUB-STRUCTURE</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></p>			
20	One brick walls	m ²	60	
	<p><u>BRICKWORK SUNDRIES</u></p> <p><u>Brickwork reinforcement</u></p>			
21	150mm Wide reinforcement built in horizontally	m	706	
	Carried Forward to Summary of Section No.			R
	Section No. 2			
	SECTION No. 2: BUILDING WORKS			
	Bill No. 3			
	MASONRY (PROVISIONAL)			

Section No. 2
SECTION No. 2: BUILDING WORKS
Bill No. 4
WATERPROOFING (PROVISIONAL)

Item No		Quantity	Rate	Amount R
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>SECTION No. 2: BUILDING WORKS</p> <p>Bill No. 5</p> <p>PLUMBING AND DRAINAGE (PROVISIONAL)</p>			

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Carried to Collection

R

Section No. 2
SECTION No. 2: BUILDING WORKS
Bill No. 5
PLUMBING AND DRAINAGE (PROVISIONAL)

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Stainless steel basins, sinks, wash troughs, urinals, etc.

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

BUDGETARY ALLOWANCES

The following budgetary allowances are for work to be executed by the Principal Contractor and priced at bill rates or at rates to be agreed in terms of the contract:

Carried to Collection

R

Section No. 2
SECTION No. 2: BUILDING WORKS
Bill No. 5
PLUMBING AND DRAINAGE (PROVISIONAL)

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Section No. 2
SECTION No. 2: BUILDING WORKS
Bill No. 5
PLUMBING AND DRAINAGE (PROVISIONAL)

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Item No		Quantity	Rate	Amount R
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>PROVISIONAL SUMS & BUDGETRY ALLOWANCES</u>			
	<u>PROVISIONAL SUMS FOR SELECTED/NOMINATED SUB-CONTRACT WORKS</u>			
	All provisional sums cover supply of material and equipment and installation by an approved "Selected Subcontractor". Provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary			
	<u>Modular Building</u>			
26	Provide the sum of R 500 000.00 (Five Hundred Thousand Rand) for a Modular Building	Item		500,000.00
27	Add profit on the above item	Item		
28	Add attendance	Item		
	<u>Balustrading, Handrails, etc</u>			
29	Provide the sum of R 15 000.00 (Fifteen Thousand Rand) for Balustrading, Handrails, etc	Item		15,000.00
30	Add profit on the above item	Item		
31	Add attendance	Item		
	<u>Electrical Installation</u>			
32	Provide the sum of R 75 000.00 (Seventy Five Thousand Rand) for Electrical Installation	Item		75,000.00
33	Add profit on the above item	Item		
	Carried to Collection		R	
	Section No. 2 SECTION No. 2: BUILDING WORKS Bill No. 6 PROVISIONAL SUMS			

Section No. 2
SECTION No. 2: BUILDING WORKS
Bill No. 6
PROVISIONAL SUMS

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Item No		Quantity	Rate	Amount R
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>DRIVEWAYS, PARKING AND PAVING (PROVISIONAL)</u>			
	<p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</p>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m ³	14	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	14	
	<u>Keeping excavations free of water</u>			
3	Keeping excavations free of all water other than subterranean water	Item		
	<u>G6 filling supplied by the contractor compacted to 95% Mod AASHTO density</u>			
4	Under floors, steps, pavings, etc	m ³	9	
	Carried to Collection			R
	Section No. 3			
	SECTION No. 3: EXTERNAL WORKS (PROVISIONAL)			
	Bill No. 1			
	EXTERNAL WORKS (PROVISIONAL)			

	<u>Compaction of surfaces</u>				
5	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and compact to 93% modified AASHTO density	m ²	60		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
6	Under paving	m ²	60		
	<u>PRECAST CONCRETE</u>				
	<u>Light grey "Grinaker G-blocks" interlocking precast concrete (35 MPa) paving blocks laid with butt joints on 50mm thick river sand bed with sand swept into joints including preparation of ground or filling</u>				
7	60mm paving blocks	m ²	60		
	<u>STORMWATER DRAINAGE</u>				
	<u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>				
8	Storm water channel 600mm wide x 150mm thick with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 1800mm 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 excavation and formwork	m	64		
	<u>BUDGETARY ALLOWANCES</u>				
	The following budgetary allowances are for work to be executed by the Principal Contractor and priced at bill rates or at rates to be agreed in terms of the contract:				
	<u>Concrete Kerbs</u>				
9	Provide the sum of R 25 000.00 (Twenty Thousand Rand) for concrete kerbs	Item			25,000.00
10	Add profit on the above item	Item			
	Carried to Collection			R	
	Section No. 3 SECTION No. 3: EXTERNAL WORKS (PROVISIONAL) Bill No. 1 EXTERNAL WORKS (PROVISIONAL)				

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Section No	FINAL SUMMARY	Page No		Amount R
1	SECTION No. 1: PRELIMINARIES	28		
2	SECTION No. 2: BUILDING WORKS	45		
3	SECTION No. 3: EXTERNAL WORKS (PROVISIONAL)	49		
	<u>PART A: PRELIMINARIES, COMMUNITY HALL, ABLUTIONS & EXTERNAL WORKS</u>			
	Sub-total (A)		R	
	<u>PART B: CONTINGENCY ALLOWANCE</u>			
	Provide a Contingency Allowance of R80 000.00 (Eighty Thousand Rand) to be used at the sole discretion of the client/Principal Agent	Item		
	Sub-Total (B)		R	
	ADD: Value added Tax at 15%		R	
	Sub-Total (C)		R	
	TOTAL CARRIED TO FORM OF OFFER AND ACCEPTANCE		R	