

Item No		Quantity	Amount
	<u>BILL 1</u>		
	<u>PRELIMINARIES</u>		
	<u>NOTES</u>		
	i) The Agreement is to be the JBCC Series 2000 Principal Building Agreement, March 2005 Edition, including all other JBCC support documentation that together form the contract between the Employer and Contractor		
	ii) The Preliminaries are to be the JBCC Series 2000 Preliminaries, May 2005 Edition for use with the JBCC Principal Building Agreement and shall be deemed to be incorporated herein		
	iii) The Tenderer is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only		
	iv) Where standard clauses or options are not applicable to this contract such modifications, corrections or supplements as are necessary, are given under each relevant clause		
	v) Where any items are not used for this specific contract such items are nevertheless listed but marked NOT APPLICABLE in the amount column		
	vi) If option A as set out in clause B10.3.1 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 and entered in the spaces provided under each item		
	vii) Items not priced in these preliminaries shall be deemed to be included elsewhere		
	viii) Should there be any discrepancy between these Preliminaries and the Agreement, these Preliminaries shall take precedence		
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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS (A1)

1 Definitions and interpretation (clause 1)

Fixed:..... Value Related:..... Time Related:.....

Item

OBJECTIVE AND PREPARATION (A2 TO A14)

2 Offer, acceptance and performance (clause 2)

Fixed:..... Value Related:..... Time Related:.....

Item

3 Documents (clause 3)

Fixed:..... Value Related:..... Time Related:.....

Item

4 Design responsibility (clause 4)

Fixed:..... Value Related:..... Time Related:.....

Item

5 Employer's agents (clause 5)

Fixed:..... Value Related:..... Time Related:.....

Item

6 Site representative (clause 6)

Fixed:..... Value Related:..... Time Related:.....

Item

7 Compliance with regulations (clause 7)

Occupational Health and Safety Act, 1993

Without limiting the generality of the provisions of clause 7.1 of the **Agreement**, the **Contractor's** attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the **Employer** shall prepare a documented health and safety specification for the **Works**, and that the **Employer** shall ensure that the **Contractor** has made provision for the cost of health and safety measures during the execution of the Works

Fixed:..... Value Related:..... Time Related:.....

Item

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8	Works risk (clause 8)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
9	Indemnities (clause 9)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
10	Works insurances (clause 10)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
11	Liability insurances (clause 11)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
12	Effecting insurances (clause 12)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
13	No clause (clause 13)		
14	Security (clause 14)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>EXECUTION (A15 TO A23)</u>		
15	Preparation for and execution of the Works (clause 15)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
16	Access to the Works (clause 16)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
17	Contract instructions (clause 17)		
	In addition to the provisions of sub-clause 17.3, contract instructions are to be recorded in triplicate in a contract instruction book, which is to be supplied and maintained on site by the Contractor		
	Fixed:..... Value Related:..... Time Related:.....	Item	
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18	Setting out of the Works (clause 18) The Contractor shall notify the Principal Agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order to make the necessary arrangements for the rectification of any such encroachments Fixed:..... Value Related:..... Time Related:.....	Item	
19	Assignment (clause 19) Fixed:..... Value Related:..... Time Related:.....	Item	
20	Nominated Subcontractors (clause 20) In addition to the provisions of sub-clause 20.1.2, the Contractor shall, at any time on being requested to do so by the Principal Agent , furnish a copy of the JBCC Nominated Subcontract Agreement to the Employer , within five (5) working days of such request Fixed:..... Value Related:..... Time Related:.....	Item	
21	Selected Subcontractors (clause 21) No clause	Item	
22	Employer's Direct Contractors (clause 22) Fixed:..... Value Related:..... Time Related:.....	Item	
23	Contractor's Domestic Subcontractors (Clause 23) In addition to the provisions of sub-clause 23.1, the Contractor shall, at any time on being requested to do so by the Principal Agent , furnish a copy of the Domestic Subcontract Agreement to the Employer , within five (5) working days of such request Fixed:..... Value Related:..... Time Related:.....	Item	
<u>COMPLETION (A24 TO A30)</u>			
24	Practical completion (clause 24) Fixed:..... Value Related:..... Time Related:.....	Item	
25	Works completion (clause 25) Fixed:..... Value Related:..... Time Related:.....	Item	
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26	Final completion (clause 26)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
27	Latent defects liability period (clause 27)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
28	Sectional completion (clause 28)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
29	Revision of date for practical completion (clause 29)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
30	Penalty for noncompletion (clause 30)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>PAYMENT (A31 TO A35)</u>		
31	Interim payment to the contractor (clause 31)		
	Clause 31.4.2 is amended by adding the following:		
	Materials and goods stored off site shall not be included in the amount authorised for payment		
	Fixed:..... Value Related:..... Time Related:.....	Item	
32	Adjustment to the contract value (clause 32)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
33	Recovery of expense and loss (clause 33)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
34	Final account and final payment (clause 34)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
35	Payment to other parties (clause 35)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
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CANCELLATION (A36 TO A39)

36	Cancellation by Employer - Contractor's default (clause 36)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
37	Cancellation by Employer - Loss and damage (clause 37)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
38	Cancellation by Contractor - Employer's default (clause 38)		
	Fixed:..... Value Related:..... Time Related:.....	Item	
39	Cancellation - Cessation of the Works (clause 39)		
	Fixed:..... Value Related:..... Time Related:.....	Item	

DISPUTE (A40)

40	Dispute settlement (clause 40)		
	Fixed:..... Value Related:..... Time Related:.....	Item	

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SUBSTITUTE PROVISIONS (A41)

41 State clauses (clause 41)

The following standard clauses to be marked with a # or the # deleted as indicated:

- Clause 3.5 - Add #
- Clause 10.3 - Delete #
- Clause 19.2 - Add #
- Clause 21.1/10 - Add #
- Clause 26.1.2 - Add #
- Clause 31.12 - Add #
- Clause 31.16 - Delete #
- Clause 34.1 - Delete #
- Clause 34.2 - Add #

The following state clause references are to be amended as indicated:

Clause 10.2/4 - Amend to 10.2 and 10.4, both marked "no clause"

The following state clauses are to be expanded as indicated:

Clause 34.1.2 - Add the wording "of the date of practical completion" after the words "working days"

The following additional state clauses are to be substituted for the standard clauses printed in the body of the text:

- Clause 3.5 - See 5.1.2 below
- Clause 21.1/10 - No clause

Fixed:..... Value Related:..... Time Related:.....

Item

CONTRACT VARIABLES (A42)

THE SCHEDULE

42 Pre-tender information (clause 42)

Fixed:..... Value Related:..... Time Related:.....

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42.1 CONTRACTING AND OTHER PARTIES

42.1.1 **Employer:** Waterberg TVET College

Postal address: Postnet Suite #59
Private X2449
Mokopane

Code 0600

Tel 015-492 9000

Fax 015-492 9042

E-mail

Tax/VAT Registration No: Not applicable

[1.2] Physical Address: CNR Totius & Hooge Streets
Mokopane
0600

42.1.2 **Principal Agent:** Nale Holdings

[5.1]

Postal address: PO Box 1528
Faerie Glen

Code 0043

Tel 012-997 2437

Fax 086-533 1844

E-mail admin@naleholdings.co.za

42.1.3 **Agent (1):** Nale Holdings

[5.1] **Agent's service:** Architect

Postal address: PO Box 1528
Faerie Glen

Code 0043

Tel 012-997 2437

Fax 086-533 1844

E-mail admin@naleholdings.co.za

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42.1.4 **Agent (2):** Nale Holdings
[5.2]
Agent's service: Quantity Surveyor

Postal address: PO Box 1528
 Faerie Glen
Code 0043

Tel 012-997 2437
Fax 086-533 1855
E-mail admin@naleholdings.co.za

42.1.5 **Agent (3):** Nale Holdings
[5.2]
Agent's service: Structural & Civil Engineer

Postal address: PO Box 1528
 Faerie Glen
Code 0043

Tel 012-997 2437
Fax 086-533 1844
E-mail admin@naleholdings.co.za

42.1.6 **Agent (4):** Nale Holdings
[5.2]
Agent's service: Electrical Engineer

Postal address: P O Box 1528
 Faerie Glen
Code 0043

Tel 012-997 2437
Fax 086-533 1844
E-mail admin@naleholdings.co.za

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42.1.7 **Agent (5):** Nale Holdings
[5.2]
Agent's service: Mechanical Engineer

Postal address: PO Box 1528
 Faerie Glen
Code 0043

Tel 012-977 2437
Fax 086-533 1844
E-mail admin@naleholdings.co.za

42.2 CONTRACT DETAILS

42.2.1 **Works description:**

 **Maintenance to Existing Classrooms, Electrical
Workshop, Diesel Workshop, Female Ablutions, Male
Ablutions, Hostel Block C and Hostel Block H**

 Upgrading of the Existing Pump House

42.2.2 **Site description:**

 Existing Lebowakgomo Campus in Lebowakgomo Township

42.2.3 Work or installations by **direct contractors:**
[22.2#]

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42.2.4	Specific options that are applicable to a State organ only		
[41.0]	Where so:		
[31.11.2#]	(1) Interest rate legislation: As determined by the Minister of Justice in terms of Section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act no. 55 of 1975) from time to time		
[11.2#]	(2) Lateral support insurance to be effected by the Contractor : No		
[31.4.2#]	(3) Payment will be made for materials and goods : Yes		
[40.2.2#]	(4) Dispute resolution by litigation: Yes		
[26.1.2#]	(5) Extended defects liability period applicable to the following elements: Electrical installation Mechanical installation		
42.2.5	Possession of the site is to be given:		
[15.2.1#]	Within ten (10) working days of the contractor providing the employer with the construction guarantees in accordance with the provisions of 14.0		
42.2.6	Period for the commencement of the Works after the contractor takes possession of the site :		
[15.3]	Five (5) working days		
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42.2.7	Intended date of practical completion and the penalty per calendar day for the works as a whole:	
[24.3.1]	Within 4 months of the commencement of the construction period	
[30.1]	and the penalty per calendar day	
	An amount equal to 0.05% of the contract sum exclusive of Value Added Tax	
42.2.8	Intended date of practical completion and the penalty per calendar day for the works in sections :	
	N/A	
42.2.9	The law applicable to this agreement shall be that of:	
[1.2]	Republic of South Africa	
42.3	<u>INSURANCES</u>	
42.3.1	Contract Works insurance to be effected by: [10.1#, 10.2#, 12.1#]	
	Contractor:	
	For a sum equal to the Contract Sum plus 20%	
	With a deductible equal to 0,1% of the above insured amount	
42.3.2	Supplementary insurance is required: [10.1#, 10.2#, 12.1#]	
	No	
42.3.3	Public liability insurance to be effected by: [11.1#, 12.1#]	
	Contractor:	
	For the Sum of R 5 000 000.00	
	With a deductible of R5 000.00	
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42.3.4	Support insurance to be effected by: [11.2#, 12.1#] N/A	
42.4	DOCUMENTS	
42.4.1	Waiver of the Contractor's lien or right of continuing possession is required: [3.3#, 15.1.3#, 31.16.2#] No clause	
42.4.2	Construction document copies to be supplied to the Contractor free of charge: [3.7] Three (3)	
42.4.3	Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: Standard System of Measuring Building Work 1999, Sixth Edition (Revised)	
42.4.4	On acceptance of the tender the bills of quantities document is to be submitted within ten (10) working days : [15.1.1] N/A	
42.4.5	JBCC Engineering General Conditions are to be included in the contract documents : [3.4] No	
42.4.6	The contract value is to be adjusted using CPAP indices: [31.5.3] No.	
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42.4.7

Details of changes made to the provision of **JBCC** standard documentation:

[3.10]

Section A

Clause 7	Note added
Clause 17	Note added
Clause 18	Note added
Clause 20	Note added
Clause 21	Note added
Clause 23	Note added
Clause 31	Amended
Clause 41	Amended

Section B

Clause 2.5	Note added
Clause 2.6	Amended
Clause 4.1	Note added
Clause 6.3	Note added
Clause 6.4	Note added
Clause 9.1	Note added
Clause 10.1	Note added
Clause 10.3	Note added/amended

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SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

43	Definitions and interpretation (B1.1 to B1.4.6)	
	Fixed:..... Value Related:..... Time Related:.....	Item

DOCUMENTS (B2)

44	Checking of documents (B2.1)	
	Fixed:..... Value Related:..... Time Related:.....	Item

45	Provisional bills of quantities (B2.2)	
	See Schedule of Variables (B12)	
	Fixed:..... Value Related:..... Time Related:.....	Item

46	Availability of construction documentation (B2.3)	
	See Schedule of Variables (B12)	
	Fixed:..... Value Related:..... Time Related:.....	Item

47	Interests of agents (B2.4)	
	See Schedule of Variables (B12)	
	Fixed:..... Value Related:..... Time Related:.....	Item

48	Priced documents (B2.5)	
	Notwithstanding the provisions of this clause, the contractor shall submit the priced documents within the time as stated in A42.4.4 of the Schedule of Contract Variables	
	Rates (items)	
	Where appropriate, rates for similar items in the various sections of these bills of quantities should be the same	
	Fixed:..... Value Related:..... Time Related:.....	Item

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49	<p>Tender submission (B2.6)</p> <p>This clause is amended by substituting "JBCC Form of Tender" with "PED Bid/Tender Forms 2007" as used by Waterberg TVET College</p> <p>Fixed:..... Value Related:..... Time Related:.....</p> <p><u>THE SITE (B3)</u></p>	Item	
50	<p>Defined works area (B3.1)</p> <p>See Schedule of Variables (B12)</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
51	<p>Geotechnical investigation (B3.2)</p> <p>See Schedule of Variables (B12)</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
52	<p>Inspection of the site (B3.3)</p> <p>Tenderers shall complete the Compulsory Site Inspection Certificate (Returnable Schedule No.12) included in the tender documents and return the same with the tender submission</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
53	<p>Existing premises occupied (B3.4)</p> <p>See Schedule of Variables (B12)</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
54	<p>Previous work - dimensional accuracy (B3.5)</p> <p>See Schedule of Variables (B12)</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
55	<p>Previous work - defects (B3.6)</p> <p>See Schedule of Variables (B12)</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
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56	Services - known (B3.7) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
57	Services - unknown (B3.8) Fixed:..... Value Related:..... Time Related:.....	Item	
58	Protection of trees (B3.9) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
59	Articles of value (B3.10) Fixed:..... Value Related:..... Time Related:.....	Item	
60	Inspection of adjoining properties (B3.11) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
<u>MANAGEMENT OF CONTRACT (B4)</u>			
61	Management of the Works (B4.1) The Contractor shall obtain all necessary particulars of Sub-contractors' work timeously so that provision for recesses, chases, holes, etc. can be made Fixed:..... Value Related:..... Time Related:.....	Item	
62	Programme for the Works (B4.2) Fixed:..... Value Related:..... Time Related:.....	Item	
63	Progress meetings (B4.3) Fixed:..... Value Related:..... Time Related:.....	Item	
64	Technical meetings (B4.4) Fixed:..... Value Related:..... Time Related:.....	Item	
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65	Labour and plant records (B4.5) Fixed:..... Value Related:..... Time Related:.....	Item	
	<p><u>SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS (B5)</u></p>		
66	Samples of materials (B5.1) Fixed:..... Value Related:..... Time Related:.....	Item	
67	Workmanship samples (B5.2) Fixed:..... Value Related:..... Time Related:.....	Item	
68	Shop drawings (B5.3) Fixed:..... Value Related:..... Time Related:.....	Item	
69	Compliance with manufacturer's instructions (B5.4) Fixed:..... Value Related:..... Time Related:.....	Item	
	<p><u>TEMPORARY WORKS AND PLANT (B6)</u></p>		
70	Deposits and fees (B6.1) Fixed:..... Value Related:..... Time Related:.....	Item	
71	Enclosure of the works (B6.2) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
72	Advertising (B6.3) Advertisements on the hoarding or elsewhere on the site will be allowed, subject to the written approval of the Principal Agent Fixed:..... Value Related:..... Time Related:.....	Item	
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73	Plant, equipment, sheds and offices (B6.4) In addition to the provisions of sub-clause B6.4.1, scaffolding shall not be permitted to be erected from buildings on adjacent sites See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
74	Main noticeboard (B6.5) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
75	Sub-contractors' noticeboard (B6.6) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
<u>TEMPORARY SERVICES (B7)</u>			
76	Location (B7.1) Fixed:..... Value Related:..... Time Related:.....	Item	
77	Water (B7.2) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
78	Electricity (B7.3) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
79	Telecommunication facilities (B7.4) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
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80	Ablution facilities (B7.5) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
<u>PRIME COST AMOUNTS (B8)</u>			
81	Responsibility for prime cost amounts (B8.1) Fixed:..... Value Related:..... Time Related:.....	Item	
<u>ATTENDANCE ON NOMINATED SUBCONTRACTORS (B9)</u>			
82	General attendance (B9.1) In addition to the provisions of clause B9.1, the Contractor shall, at his own expense, provide the following additional general attendance: Make good after Nominated Sub-contractors Fixed:..... Value Related:..... Time Related:.....	Item	
83	Special attendance (B9.2) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
84	Commissioning - fuel, water and electricity (B9.3) Fixed:..... Value Related:..... Time Related:.....	Item	
<u>FINANCIAL ASPECTS (B10)</u>			
85	Statutory taxes, duties and levies (B10.1) In addition to the provisions of clause B10.1, all individual amounts in these bills of quantities exclude Value Added Tax (VAT), VAT is to be calculated as a lump sum and added to the total of all values in the Final Summary under the item provided for VAT Fixed:..... Value Related:..... Time Related:.....	Item	
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86	Payment of preliminaries (B10.2) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
87	Adjustment of preliminaries (B10.3) Notwithstanding the provisions of sub-clause B10.3.1 (Option A) and for the purpose of adjusting the Time Related amount, only revision of the date for practical completion granted by the Principal Agent for variations, omissions, additions and substitutions referred to in sub-clauses A29.2 and A29.3 of the Principal Building Agreement, shall be taken into account As an allowance, the first ten (10) working days of the construction period is regarded as an administration period and shall be deducted from both the initial and the revised construction periods for calculation purposes Fixed:..... Value Related:..... Time Related:.....	Item	
88	Payment certificate cash flow (B10.4) Fixed:..... Value Related:..... Time Related:.....	Item	
<u>GENERAL (B11)</u>			
89	Protection of the Works (B11.1) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
90	Protection/isolation of existing/sectionally occupied Works (B11.2) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
91	Security of the works (B11.3) Fixed:..... Value Related:..... Time Related:.....	Item	
92	Notice before covering work (B11.4) Fixed:..... Value Related:..... Time Related:.....	Item	
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93	Disturbance (B11.5) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
94	Environmental disturbance (B11.6) See Schedule of Variables (B12) Fixed:..... Value Related:..... Time Related:.....	Item	
95	Works cleaning and clearing (B11.7) Fixed:..... Value Related:..... Time Related:.....	Item	
96	Vermin (B11.8) Fixed:..... Value Related:..... Time Related:.....	Item	
97	Overhand work (B11.9) Fixed:..... Value Related:..... Time Related:.....	Item	
98	Instruction manuals and guarantees (B11.10) Fixed:..... Value Related:..... Time Related:.....	Item	
99	As built information (B11.11) Fixed:..... Value Related:..... Time Related:.....	Item	
100	Tenant installations (B11.12) Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>SCHEDULE OF VARIABLES (B12)</u>		
	<u>PRE-TENDER INFORMATION</u>		
101	Pre-tender information (B12.1) Fixed:..... Value Related:..... Time Related:.....	Item	
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12.1.1 Provisional bills of quantities		
[2.2] The quantities are provisional: Yes		
12.1.2 Availability of construction documentation		
[2.3] Construction documentation are complete: Yes		
12.1.3 Interests of agents		
[2.4] The agents have no interest in this project apart from their professional interest		
12.1.4 Defined Works area		
[3.1] Maintenance to the existing Classrooms, Electrical Workshop, Diesel Workshop, Female Ablutions, Male Ablutions, Hostel Block H and Hostel Block C		
Complete Refurbishment of Pump house		
12.1.5 Geotechnical investigation		
[3.2] Report is available		
No		
12.1.6 Existing premises occupied		
[3.4] Yes		
12.1.7 Previous work - dimensional accuracy		
[3.5] N/A		
12.1.8 Previous work - defects		
[3.6] N/A		
12.1.9 Services - known		
[3.7] To be shown out at site inspection		
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12.1.10 Protection of trees

[3.9] **As shown out on site inspection**

12.1.11 Inspection of adjoining properties

[3.11] **N/A**

12.1.12 Enclosure of the Works

[6.2] **Applicable**

12.1.13 Offices

[6.4.3] **Office accommodation shall be minimum 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric light and fitted with boarded floor, table and ten chairs**

12.1.14 Main notice board

[6.5] **The main notice board shall be strongly made, 2,77m wide and 3,7m high, with 19mm thick surround projecting 13mm over face. The board is to have a flush even surface and is to be divided into four sections and painted navy blue and ivory white**

The lettering is to be 50mm and 100mm "sans serif" in ivory white on the blue background and in 100mm "sans serif" in navy blue on the ivory white background. The inscription, in one language only, which must bear the approval of the Employer, will be given to the Contractor by the Principal Agent. The board must be adequately supported. No other names or notice boards may be erected without the written approval of the Principal Agent

Sketch drawings of all proposed names or notice boards must be submitted to the Principal Agent for approval, before being prepared and erected on site. These sketch drawings must not only show the full content of the proposed names or notice boards, but also the position and locality in which the boards will be erected

12.1.15 Sub-contractors notice board

[6.6] **A noticeboard is required:
No**

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12.1.16 Water			
[7.2]	Option A (by contractor)	Yes	
	Option B (by employer - free of charge)	No	
	Option C (by employer - metered)	No	
12.1.17 Electricity			
[7.3]	Option A (by contractor)	Yes	
	Option B (by employer - free of charge)	No	
	Option C (by employer - metered)	No	
12.1.18 Telecommunications			
[7.4]	Telephone	Yes	
	Facsimile	No	
	E-mail	No	
12.1.19 Ablution facilities			
[7.5]	Option A (by contractor)	Yes	
	Option B (by employer)	No	
12.1.20 Protection of existing/sectionally occupied works			
[11.2]	Protection is required:	Yes	
12.1.21 Special attendance			
[9.2]	Subcontractor (1) details:		
	N/A		
12.1.22 Protection of the works			
[11.1]	Applicable		
12.1.23 Disturbance			
[11.5]	N/A		
12.1.24 Environmental disturbance			
[11.6]	N/A		
		Carried to Collection	R
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105	<p>Drawings issued with tender documents (C3)</p> <p>Where drawings are issued with the tender documents they do not comprise the complete set, but serve as a guide only for tendering purposes and for indicating the scope of the work, to enable the Tenderer to acquaint himself with the nature and extent of the Works and the manner in which they are to be executed</p> <p>Should any part of the drawings not be clearly intelligible to the Tenderer, he shall, before submitting his tender, obtain clarification in writing from the Principal Agent</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
106	<p>Pricing and rates (C4)</p> <p>All prices or rates inserted in these bills of quantities shall, unless otherwise stated, include for materials, duty, taxes other than Value Added Tax (VAT), making, conveyance and delivery, unloading, storing, unpacking, hoisting, labour setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works, return of packings, establishment charges, profit and all other obligations arising from the Principal Building Agreement</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
107	<p>Submission of priced bills of quantities (Also see A15) (C5)</p> <p>Notwithstanding the provisions of sub-clause A15.1.1 of the Principal Building Agreement, it is an express requirement that the Tenderer shall submit, together with his tender, his priced bills of quantities with all items properly priced, extended and cast in ink</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
108	<p>Commencement and completion (C6)</p> <p>Notwithstanding compliance with the provisions of sub-clauses A15.1.1, A15.1.2 and A15.2.1 of the Principal Building Agreement, which may result in a period of less than ten (10) working days for administrative functions from the date of acceptance of the Tender until the date of handing over the site, the Contractor shall have no right to demand the handing over of the site before ten (10) working days from the date of acceptance of the Tender has elapsed</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
	Carried to Collection	R	
	<p>Bill 1 Preliminaries NH2109 Maintenance</p>		

109	<p>Detail drawings (C7)</p> <p>Upon receipt of detail drawings for any work, the Contractor shall, before putting that work in hand, ascertain that the dimensions given on the detail drawings correspond with the dimensions of any work already built. In the event of the detail drawings not agreeing with work already built, the drawings shall immediately be returned for alteration, as no claim for extra work in this regard will be entertained</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
110	<p>Ordering of materials (C8)</p> <p>The Contractor shall place orders timeously for materials or special articles that are required. Should these bills of quantities be used for ordering materials, this shall be entirely at the Contractor's risk</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
111	<p>Jobbing (C9)</p> <p>Each trade shall perform all necessary jobbing and attendance and shall make good after all other trades</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
112	<p>Damage to existing buildings and/or structures, etc. (C10)</p> <p>Any damage whatsoever to the existing buildings and/or structures, etc. from building operations during the construction period shall be rectified to the approval of the Principal Agent at the Contractor's expense</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
Carried to Collection		R	
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113 Community development and SME involvement (RDP Programme) (C11)

The building and related projects of the Limpopo Provincial Education Department shall be labour intensive and shall promote community employment in the execution of this contract. Furthermore, it shall contribute to the development of SME's (Small and Medium Enterprises) especially from previously disadvantaged communities

Local labour

It is an explicit condition of this Agreement that only persons normally resident in the locality of the **Works** (Local labour) may be employed on this project. Provided however, that should adequate and appropriate labour not be available within the locality, other labour may be employed, subject to the approval of the **Principal Agent** and satisfactory proof being provided that every reasonable endeavour has been made to employ labour from the immediate locality. The **Contractor** shall identify the local community leaders, with the purpose of negotiating with them, regarding the utilisation of local labour in the construction process. In this regard the **Contractor** shall furthermore give preference, where possible, to the employment of single heads of households, women, youth and disabled persons. The **Contractor** shall in general, maximise the involvement of the local community

Fixed:..... Value Related:..... Time Related:.....

Item

114 Local subcontractors (C12)

The **Contractor** is to take note that it is a specific requirement and imperative that local subcontractors be employed on this project for trades such as bricklaying, carpentry, ceilings, plastering, tiling, plumbing, electrical installation, painting, etc.

It is compulsory that the Tenderer submits with the tender the following specific details, in respect of each of the local subcontractors he shall employ on this project:

- (i) Name, trade and address of subcontractor
- (ii) Value of work to be carried out by subcontractor
- (iii) Percentage value of subcontract in relation to the contract sum

Failure to furnish and submit the required information will invalidate the tender

Fixed:..... Value Related:..... Time Related:.....

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115 Empowerment of HDE and SME entities (C13)

It is an express condition of this Agreement that the **Contractor** shall allocate a minimum of 15% of this contract value to and shall state his involvement with the empowerment and development of HDE (Historically Disadvantaged Enterprises) and SME (Small and Medium Enterprises) firms/companies as subcontractors. A document highlighting the Tenderer's contribution to the transformation of this country must be submitted with special reference to the following:

(1) MENTORSHIP PROGRAM OF A HDE/SME FIRM SELECTED BY THE TENDERER

(1)(a) Construction management

(1)(b) Financial management of contracts

(2) TRAINING PROGRAM

(2)(a) Training in specialised fields pertaining to the contract

(2)(b) Students (Both professional and technical) on building sites

(3) CLARIFICATION OF THE ROLE AND STATUS OF PARTNERS/SHAREHOLDERS IN THE HDE/SME FIRM/COMPANY WITH EMPHASIS ON HDE/SME PARTNERS/SHAREHOLDERS

(3)(a) Proof of shareholding

(3)(b) Job description and responsibilities

(3)(c) Details of profit sharing

(3)(d) Details of improvement in life conditions of partners/shareholders

(4) LIST OF HDE/SME SUBCONTRACTORS UTILISED IN PREVIOUS PROJECTS INCLUDING TRAINING DETAILS

(5) TENDERER'S EMPLOYMENT EQUITY PLAN

(6) OTHER SOCIAL RELATED CONTRIBUTIONS OF THE TENDERER

Failure to furnish and submit the required information will invalidate the tender

Fixed:..... Value Related:..... Time Related:.....

Item

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116 **HIV / AIDS AWARENESS (C14)**

It is required of the **contractor** to thoroughly study the HIV AIDS Specification annexed to these bills of quantities that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV AIDS awareness is made under items C14.1 to C14.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The **contractor** must take note that compliance with the HIV / AIDS Specification in compulsory. In the event of partial or total non - compliance, the **principal agent**, notwithstanding the provisions of Clause A31.0 or any other clause to the contrary, reserves the right to delay issuing any interim **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.

Fixed:.....Value Related:.....Time related:.....

Item

117 **Awareness Champion (C14.1)**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV / AIDS Specification

Fixed:.....Value Related:.....Time related:.....

Item

118 **Awareness Workshops (C14.2)**

Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV / AIDS Specification.

Fixed:.....Value Related:.....Time related:.....

Item

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119	<p>Posters, booklets, videos, etc (C14.3)</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed:.....Value Related:.....Time related:.....</p>	Item	
120	<p>Access to condoms (C14.4)</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed:.....Value Related:.....Time related:.....</p>	Item	
121	<p>Monitoring (C14.5)</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the contract period and close out, all in accordance with the HIV/AIDS Specification.</p> <p>Fixed:.....Value Related:.....Time related:.....</p>	Item	
Carried to Collection		R	
<p>Bill 1 Preliminaries NH2109 Maintenance</p>			

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Item No		Unit	Quantity	Rate	Amount
	<u>BILL 2</u>				
	<u>ALTERATIONS</u>				
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Breaking up and removing mass concrete</u>				
1	85mm Thick surface bed	m ²	150		
	<u>Taking out and removing doors including ironmongery from steel frames to receive new door (New door measured elsewhere)</u>				
2	Timber single door 813 x 2032mm high	No	25		
3	40mm Double door 1613 x 2032mm high with rebated meeting edges/stiles	No	20		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
4	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m ²	448		
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>				
5	Internal plaster from walls	m ²	715		
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
6	Tiles to floors	m ²	775		
7	Tiles to walls	m ²	1 237		
	Carried to Collection			R	
	Bill 2 Alterations NH2109 Maintenance				

Taking out and removing piping, sanitary fittings, etc including disconnecting and blocking off piping from fittings

8	Vitreous china wash hand basin	No	22
9	Vitreous china WC low level cistern	No	31
10	Wash trough, 1030 x 440 x 388mm deep	No	7
11	Geyser	No	6
12	"Vitreous china" wall mounted urinal with two hanger brackets wall mounted urinal bowl and fittings (flush valve elsewhere).	No	12

Taking out and removing electrical light fittings

Fluorescent fittings

13	Fluorescent	No	131
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Carried to Collection

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Bill 2
Alterations
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Bill 2

Alterations

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Bill 2
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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 3</u></p> <p><u>EARTHWORKS</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>No Soil investigation has been carried out</p> <p><u>Soil poisoning and insecticide:</u></p> <p>All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of Specialists</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>General Notes:</u></p> <p>1 Fill material shall be placed in lifts of not more than 150mm. Compaction density to be controlled using DCP apparatus to a maximum of 30mm/blow 93% MOD AASHTO compaction is to be achieved.</p> <p>2 Where backfill is required on both sides of walls, backfill both sides simultaneously.</p> <p>3 Where compaction of fill material behind retaining walls is done using mechanical rollers, the rollers must be kept 500mm away from the wall & this 500mm portion must be compacted with hand stampers or wackers.</p>				
	Carried to Collection				R
	<p>Bill 3 Earthworks NH2109 Maintenance</p>				

EXCAVATION, FILLING, ETC

Earth filling supplied by the contractor compacted to 93% Mod AASHTO density

1	Under floors, steps, pavings, etc	m ³	38	
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Compaction of surfaces

2	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	m ²	150	
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SOIL POISONING

"Chlordane" or other approved

3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	150	
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Carried to Collection

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Bill 3

Earthworks

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 4</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE:</u></p> <p>All prices/rates to be net, excluding Value Added Tax</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 architect. 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>				
	Carried to Collection				R
	<p>Bill 4 Concrete, Formwork and Reinforcement NH2109 Maintenance</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.

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

25MPa/19mm concrete

1	Surface beds	m ³	12	
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TEST CUBES

2	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	2	
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

3	Surface beds, slabs, etc to falls	m ²	150	
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MOVEMENT JOINTS ETC

Expansion joints with 10mm soft board between vertical concrete and brick surfaces

4	Not exceeding 300mm high to edge of surface beds	m	150	
---	--	---	-----	--

REINFORCEMENT

Carried to Collection

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Bill 4
Concrete, Formwork and Reinforcement
NH2109
Maintenance

Fabric reinforcement

5 Type 193 fabric reinforcement in concrete surface beds, slabs, etc. with 300mm wide side and end laps (measured net)

m²

150

Carried to Collection

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Bill 4
Concrete, Formwork and Reinforcement
NH2109
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Bill 4

Concrete, Formwork and Reinforcement

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Bill 4

Concrete, Formwork and Reinforcement

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 5</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE :</u></p> <p>All prices/rates to be net, excluding Value Added Tax.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>				
	Carried to Collection				R
	<p>Bill 5 Carpentry and Joinery NH2109 Maintenance</p>				

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

DOORS ETC

Wrought meranti doors hung to steel door frames

1	40mm Framed, ledged and braced batten door 914 x 2032mm high filled in with 22mm V-jointed one side boarding and covered on other side with 6mm plywood with veneer to match door let into and including rebates all round	No	8
2	40mm Framed, ledged and braced batten double door 1511 x 2032mm high with rebated meeting edges, filled in with 22mm V-jointed one side boarding and covered on other side with 6mm plywood with veneer to match door let into and including rebates all round	No	20
3	40mm Door 813 x 2032mm high	No	25

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Bill 5
Carpentry and Joinery
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Bill 5

Carpentry and Joinery

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Bill 5

Carpentry and Joinery

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 6</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE:</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>CEILINGS ETC</u></p> <p><u>NAILED UP CEILINGS</u></p> <p><u>4mm "Everite Nutec" fibre-cement boards with standard H-type pressed steel jointing strips</u></p>				
1	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres	m ²	448		
	Carried to Final Summary				R
	<p>Bill 6 Ceilings, Partitions and Access Flooring NH2109 Maintenance</p>				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 7</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE :</u></p> <p>All prices/rates to be net, excluding Value Added Tax.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>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 Anodized silver AB Anodized bronze AG Anodized gold ABL Anodized black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <p><u>References</u></p> <p>Where ironmongery is referred to proprietary types, such ironmongery is to be exactly of such proprietary types or other approved by the Principal Agent</p> <p><u>"EN-SUITE" LOCKS</u></p> <p>The following locks are to be suitable for master and grand master key operation</p> <p><u>"Union" or similar approved</u></p>				
1	Lockset suitable for double door	No	20		
	Carried to Collection			R	
	<p>Bill 7 Ironmongery NH2109 Maintenance</p>				

2	Code CZ80941 WC indicator bolt	No	17
3	Code CZ692-24-61SC Radius 4 lever lockset	No	16
4	Master key	No	2
5	Grand master key	No	1
<u>DOOR CLOSERS</u>			
<u>"Dorma"</u>			
6	Pair of Dorma RTS 85/EN3 double swing action 90° hold open transom concealed door closers with back check for steel frame and timber double doors up to 950mm wide per leaf, opening width not exceeding 1900mm, with 85W anodised aluminium cover plate, 8530 closer arm with channel, 8550 27mm high floor pivot	No	8
<u>HANDLES</u>			
<u>"Union" or similar approved</u>			
7	Handle set suitable for double door	No	20
<u>SUNDRIES</u>			
<u>"Union" or similar approved</u>			
8	CZ8731SC Door stop	No	53
<u>CATCHES, CABIN HOOKS, ETC</u>			
<u>"Solid"</u>			
9	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	20

PELMETS AND CURTAIN TRACKS

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Ironmongery
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Bill 7

Ironmongery

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 8</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>Primer</u></p> <p>All surfaces of steelwork to be painted with one coat approved factory primer before leaving the workshop of the Manufacturer and all scratches, chips or blemishes to be made good on site after erection. All rates tendered must make provision for this as no claim will afterwards be entertained.</p> <p><u>Bolts, etc.</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork and concrete.</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described.</p> <p><u>WELDED SCREENS, GATES, ETC</u></p> <p><u>Security Gates</u></p>				
1	<p>Complete double gate in two equal leaves, each leaf formed of 40 x 60 x 2mm rectangular tube framing all round mitred and welded at angles with two 40 x 6 mm flat section horizontal intermediate rails with end welded to framing and with 4 x 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing sizes 1500 x 2100mm high overall</p>	No	8		
	Carried to Final Summary				R
	<p>Bill 8 Metalwork NH2109 Maintenance</p>				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 9</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE:</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preparatory work for textured finishes:</u></p> <p>Textured finishes to be applied to plaster (plaster elsewhere)</p> <p>All surfaces are to be inspected and approved by the Representative/Agent before any work is commenced with</p> <p><u>Prices for textured finishes:</u></p> <p>Prices are to include for all priming, preparatory work, etc.</p> <p><u>PVC acrylic waterbased and PVC resin bonded textured finish:</u></p> <p>All specialist plaster wall finishes are to be applied to the satisfaction of the Representative/Agent and executed by an approved firm of specialists, all strictly in accordance with the materials supplied and methods employed by the Manufacturer</p> <p><u>INTERNAL PLASTER</u></p>				
	Carried to Collection				R
	<p>Bill 9 Plastering NH2109 Maintenance</p>				

1	<p><u>Cement plaster on brickwork</u></p> <p>On walls</p>	m ²	715		
	<p>Bill 9 Plastering NH2109 Maintenance</p>			<p>Carried to Collection</p>	<p>R</p>

Bill 9

Plastering

COLLECTION

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Plastering
NH2109
Maintenance

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 10</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE:</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Unglazed clay tiles:</u></p> <p>All tiles to be true and even in shape and free from cracks, chips, blemishes and other defects and to be factory sealed with an approved sealer . All tiles to be dipped in water for 24 hours immediately before fixing and are to be bedded in and including cement mortar, unless otherwise described, to true and even surfaces and grouted with 8 mm wide continuous joints in both directions, all strictly in accordance with the Manufacturer's instructions</p> <p><u>Prices:</u></p> <p>Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete. Any additional area caused by the thickness of tiling and screed are to be allowed for in prices</p> <p><u>WALL TILING</u></p>				
	Carried to Collection				R
	<p>Bill 10 Tiling NH2109 Maintenance</p>				

1	<p><u>200 x 200 x 5mm "SANS" approved, white glazed tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with "SANS" approved white epoxy grouting</u></p> <p>On walls</p>	m ²	1 237		
<u>FLOOR TILING</u>					
2	<p><u>600 x 600 x 11mm "SANS" approved unglazed extruded ceramic floor tiles fixed on a "SANS" approved adhesive and flush pointed with a light grey "SANS" approved epoxy grouting</u></p> <p>On floors</p>	m ²	775		
Carried to Collection					
<p>Bill 10 Tiling NH2109 Maintenance</p>				R	

Bill 10

Tiling

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Tiling
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Maintenance**

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 11</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE:</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></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>Copper pipes:</u></p> <p>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</p>				
	Carried to Collection			R	
	<p>Bill 11 Plumbing and Drainage NH2109 Maintenance</p>				

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

Exposed concrete surfaces:

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

Excavations

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

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 SAB.

Flush pans

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

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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

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

SANITARY FITTINGS

"Vaal" or similar approved

1	Tuscany 560 vitreous china lavatory basin (code : 7006), size 560 x 415mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts (code: 8448Z0) and including Classic floor mounted pedestal (code: 7150) and sealed with silicone sealant where basin meets wall.	No	22
2	Vaal Sanitaryware Daisy White vitreous china semi close coupled washdown suite comprising 90° outlet open rim pan (code: 751400) and matching 9 litre front single flush cistern (code: 710532) including lid, fitments and flushpipe elbow, with durable double flap seat.	No	31
3	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 (code: 7054Z1), fixed on and including two hanger brackets (code: 8127Z0).	No	12

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	<u>"Franke" or other approved</u>				
4	Model EL 102 double fabricated economy type wash trough, 1030 x 440 x 388mm deep	No	7		
	<u>WASTE UNIONS ETC</u>				
	<u>"Cobra Watertech" or other approved:</u>				
5	38mm Bath or sink waste union	No	7		
6	32mm 303CP Basin waste union and 309CP anti theft plug	No	22		
	<u>TRAPS ETC</u>				
	<u>"Cobra Watertech" or other approved</u>				
7	40mm 345/40 CP bottle trap	No	29		
	<u>TAPS, VALVES, ETC</u>				
	<u>'Cobra Watertech' or similar approved</u>				
8	15mm 1090-15 Fullway gate valve	No	22		
9	Code 232-10 Angle regulating valve	No	14		
10	15mm one tap hole basin mixer code: 3294ST	No	22		
11	15mm 'Star 111-15' pillar tap	No	14		
12	32mm 181/020/070CP shower mixer	No	9		
13	15mm 078CP shower rose	No	9		
14	15mm 027CP overhead shower arm	No	9		
15	Code 232-10 Angle regulating valve	No	31		
16	22mm Code FJ6.000 "Flushmaster" urinal flushvalve complete with connector, tailpipe (Code FJT 5.5) and wallplate	No	12		
	<u>SANITARY PLUMBING</u>				
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	Bill 11 Plumbing and Drainage NH2109 Maintenance				

<u>uPVC soil and vent pipes</u>					
17	110mm Pipes	m	31		
<u>Extra over uPVC soil and vent pipes for fittings</u>					
18	110mm Bent pan connector	No	31		
<u>WATER SUPPLIES</u>					
<u>Class 1 copper pipes with capillary fittings</u>					
19	15mm Pipes	m	248		
<u>Extra over class 1 copper pipes for capillary fittings</u>					
20	15mm Fittings	No	198		
<u>Extra over class 1 copper pipes for brass compression fittings</u>					
21	15mm Fittings	No	136		
<u>ELECTRIC WATER HEATERS</u>					
<u>'Kwikot' or other approved</u>					
22	150 Litre horizontal wall mounted electric water heater	No	4		
<u>'Suntank' or other approved</u>					
23	400 Litre Stainless-steel high pressure Solar Geyser	No	2		
Carried to Collection					
Bill 11 Plumbing and Drainage NH2109 Maintenance					R

Bill 11

Plumbing and Drainage

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 12</u></p> <p><u>ELECTRICAL WORK (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>ELECTRICAL INSTALLATION</u></p> <p><u>LIGHT FITTINGS</u></p> <p>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps or tubes. Allowance must be made in the rates for all the required fixing materials and accessories Fittings to be equal and similar approved to the below quoted manufacturer</p> <p><u>Fluorescent fittings</u></p>				
1	Type F1 "Lascon" catalogue no LP1-258 SS	No	131		
	Carried to Final Summary				R
	<p>Bill 12 Electrical Work (Provisional) NH2109 Maintenance</p>				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 13</u></p> <p><u>GLAZING</u></p> <p><u>PREAMBLES</u></p> <p>For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></p> <p><u>6 mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:</u></p>				
1	Mirror 600 x 900 mm high with four screws	No	22		
	Carried to Final Summary				R
	<p>Bill 13 Glazing NH2109 Maintenance</p>				

Item No		Unit	Quantity	Rate	Amount
	<u>BILL 14</u>				
	<u>PAINTWORK</u>				
	<u>PREAMBLES</u>				
	For specifications and preambles "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0 and Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0"				
	<u>NOTE:</u>				
	All prices/rates to be net, excluding Value Added Tax				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Paint:</u>				
	All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed.				
	<u>PAINTWORK ETC TO NEW WORK</u>				
	<u>ON FLOATED PLASTER</u>				
	<u>Apply one coat Durafill Fillercoat and two coats Dulux Acrylic PVA or similar approved</u>				
1	On internal walls	m ²	715		
	<u>ON FIBRE-CEMENT</u>				
	<u>Apply one coat Durafill Fillercoat and two coats Dulux Acrylic PVA or similar approved</u>				
2	On ceilings and cornices	m ²	448		
	<u>ON METAL</u>				
	Carried to Collection			R	
	Bill 14 Paintwork NH2109 Maintenance				

	<p><u>One coat self-etching primer, one universal undercoat and two coats gloss enamel paint</u></p>				
3	<p>On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)</p>	m ²	50		
	<p><u>ON WOOD</u></p>				
	<p><u>One coat wood primer and two coats Duragloss Dulux Matchmaker or similar approved</u></p>				
4	<p>On doors</p>	m ²	82		
	<p><u>Two coats gloss clear varnish</u></p>				
5	<p>Doors</p>	m ²	156		
	<p style="text-align: center;">Carried to Collection</p>			<p style="text-align: center;">R</p>	

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Bill 14

Paintwork

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL 15</u></p> <p><u>PROVISIONAL AMOUNTS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Provisional Sums</u></p> <p>Provisional sums are for materials and equipment supplied and installed complete by firms of specialists.</p> <p>Provisional sums are NET.</p> <p>Under no circumstances may any Provisional Sum be extended at an amount other than the amount given in the Bill.</p> <p>Provisional sums will be deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.</p> <p><u>Reimbursement</u></p> <p>Unless otherwise stated, the Profit and Attendance will be calculated on the final agreed installation value in accordance with Clauses of the Conditions of Subcontract.</p>				
	Carried to Collection				R
	<p>Bill 15 Provisional Amounts NH2109 Maintenance</p>				

Attendance on subcontractors

Attendance by the Contractor for provisional sum for Subcontractors' work, shall be deemed to cover all the Contractor's costs incurred in providing free of charge to the nominated subcontractors, the following:

1. Services such as offices, water, electricity, latrines, laydown areas, transport, security, scaffolding, hoisting, etc. as necessary and agreed between the Subcontractor and Contractor to complete the works.
2. Making good in all trades and cleaning down and removal of rubbish on completion.

No additional claims whatsoever in this regard will be entertained.

Builder's work in connection with specialist services

Builder's work in connection with specialist services is given elsewhere in these bills of quantities.

NOTE: The Contractors are to note the following:

The following amounts are for work to be carried out by a selected or nominated sub-contractor, nominated or selected by the Principal Agent

RAINWATER GOODS

1	Provide the sum of R 50 000.00 (Fifty Thousand Rand) for the complete refurbishment of the rainwater goods including waterproofing	Item	50 000.00
2	Add for profit upon above, if required	Item	
3	Attend upon the firm executing the installation	Item	

ELECTRICAL INSTALLATIONS

4	Provide the sum of R 120 000.00 (One Hundred and Twenty Thousand Rand) for testing, fixing and provision of CoC	Item	120 000.00
5	Add for profit upon above, if required	Item	

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6	Attend upon the firm executing the installation	Item	
	<u>IRONING BOARDS INSTALLATIONS</u>		
7	Provide the sum of R 20 000.00 (Twenty Thousand Rand) for ironing boards installation	Item	20 000.00
8	Add for profit upon above, if required	Item	
9	Attend upon the firm executing the installation	Item	
	<u>REPAIRS TO EXISTING STORMWATER</u>		
10	Provide the sum of R 90 000.00 (Ninety Thousand Rand) for repairs to existing stormwater system	Item	90 000.00
11	Add for profit upon above, if required	Item	
12	Attend upon the firm executing the installation	Item	
	<u>PUMP HOUSE INSTALLATION</u>		
13	Provide the sum of R 300 000.00 (Three Hundred Thousand Rand) for the complete refurbishment of the existing pump house	Item	300 000.00
14	Add for profit upon above, if required	Item	
15	Attend upon the firm executing the installation	Item	
	<u>REPAIRS TO STEEL WINDOWS</u>		
16	Provide the sum of R 15 000.00 (Fifteen Thousand Rand) for replacement of window furniture	Item	15 000.00
17	Add for profit upon above, if required	Item	
18	Attend upon the firm executing the installation	Item	
	<u>REPAIRS TO ROOFS</u>		
19	Provide the sum of R 55 000.00 (Fifty Five Thousand Rand) for repairs to existing Diesel Mechanic Workshop	Item	55 000.00
20	Add for profit upon above, if required	Item	
	Carried to Collection		R
	Bill 15 Provisional Amounts NH2109 Maintenance		

21	Attend upon the firm executing the installation	Item	
	<u>REPAIRS TO ROOFS</u>		
22	Provide the sum of R 50 000.00 (Fifty Thousand Rand) for removal and installation of new kitchen (Diesel Mechanic Workshop)	Item	50 000.00
23	Add for profit upon above, if required	Item	
24	Attend upon the firm executing the installation	Item	
	Carried to Collection		R
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Bill 15

Provisional Amounts

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1	Preliminaries	34	
2	Alterations	37	
3	Earthworks	40	
4	Concrete, Formwork and Reinforcement	44	
5	Carpentry and Joinery	47	
6	Ceilings, Partitions and Access Flooring	48	
7	Ironmongery	52	
8	Metalwork	53	
9	Plastering	56	
10	Tiling	59	
11	Plumbing and Drainage	65	
12	Electrical Work (Provisional)	66	
13	Glazing	67	
14	Paintwork	70	
15	Provisional Amounts	75	
	SUB-TOTAL		R
	<u>CONTINGENCIES</u>		
	Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rand) for contingencies to be expended as directed by the Principal Agent or deducted in whole or in part from the contract amount if not required.		R 250 000.00
	SUB-TOTAL BEFORE VAT		R
	ADD: Value Added Tax @ 15%		R
	Total Sum carried to Form of Tender		R
	NH2109 Maintenance		