

FREEDOM PARK SECURITY MAIN ENTRANCE GATE

Bill No. 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	<p>PRELIMINARIES</p> <p><u>PRINCIPAL BUILDING AGREEMENT</u></p> <p>The agreement shall be the Principal Building Agreement prepared and published by the Joint Building Contracts Committee: Edition 4.1 Code 2101, March 2005. (The JBCC Series 2000 Principal Building Agreement).</p> <p><u>PRELIMINARIES</u></p> <p>The preliminaries shall be the Preliminaries prepared and published by the Joint Building Agreement: Code 2103, May 2005. (The JBCC Series 2000 Preliminaries)</p> <p><u>FULL INTENT AND MEANING OF CLAUSES</u></p> <p>Tenderers shall be deemed to have referred to the afore-mentioned documents for the full intent and meaning of each clause. These clauses are hereinafter referred to by the heading and clause number only.</p> <p>Where standard clauses or alternatives are not applicable to this contract, such modifications, corrections or supplements as are necessary are given under each relevant clause heading or within the relevant schedule.</p> <p>Where an item is not relevant to this specific contract, such item is marked "N/A" signifying "Not applicable".</p> <p><u>PRICING OF CLAUSES</u></p> <p>Tenderers shall allow opposite each clause for any cost involved with complying with such clause. Any clauses left unpriced shall be deemed to be covered by rates and prices elsewhere incorporated throughout these bills of quantities.</p> <p style="text-align: right;">Carried Forward</p>			
				R

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	PAYMENT CATEGORIES			
	Should 'Alternative A', as set out withinin clause Clause 10.3 of the JBCC 2000 Preliminaries, be used for the adjustment of preliminaries, then each item priced is to be allocated to one or more categories by the insertion of the letter 'F' "V" or "T", as the case may be, against the price in the rate column. These letters shall indicate the relevant categories as follows:			
	"F" - A fixed amount			
	"V" - A variable amount in proportion to the value			
	"T" - An amount in proportion time			
	<u>SECTION A:PRINCIPAL BUILDING AGREEMENT</u>			
	<u>DEFINATIONS</u>			
	Definations and interpretation			
	Clause 1.0			
	F:.....V:.....T:.....			
	<u>OBJECTIVE AND PREPARATION</u>			
	Offer, acceptance and performance			
	Clause 2.0			
	F:.....V:.....T:.....			
	Documents			
	Clause 3.1 is hereby deleted and no payment guarantee will thus be provided by the employer.			
	Carried Forward			R -

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	<p>Clause 3.3 is hereby amended by deleting the words " within seven (7) calender days of havin received a payment guarantee from the employer in terms of 3.1 "in the first sentence and subsitituting with" within twenty-one (21) calender days of written acceptance of the the contractor's tender." The second sentence shall remain unchanged.</p> <p style="text-align: center;">Clause 3.0</p> <p>F:.....V:.....T:.....</p>			
4	<p>Design responsibility</p> <p>The following new subclause is hereby added to this clause:</p> <p>4.4 Notwithstanding the provisions of 4.2, the contractor shall ensure that every such nominated or selected subcontractor shall simultaneously with the signing of the relevant nominated or selected subcontract sign and deliver to the employer a Design materials and Workmanship Warrantly and Untertaking in favour of the employer or a Materials and Workmanship Undertaking strictly in accordance with the instructions or provisions contained in the tender documents for the nominated or selected subcontract works.</p> <p style="text-align: center;">Clause 4.0</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
5	Employer's agents Clause 5.0 F:.....V:.....T:.....			
6	Site representative Clause 6.0 F:.....V:.....T:.....	1		R -
7	Compliance with regulations The following new subclause is hereby added to this clause: Without limiting the generality of the provisions of clause 7.0 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 (copy of the relevant specification attached hereto) and that the Employer shall ensure that the contractor has made provision for the cost of health and safety measures durin the execution of the Works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification. Clause 7.0 F:.....V:.....T:.....	1		R -
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
8	Works risk Clause 8.0 F:.....V:.....T:.....	1		R -
9	Indemnities Clause 9.0 F:.....V:.....T:.....	1		R -
10	Works insurance Clause 10.0 F:.....V:.....T:.....			
11	Liability insurance Clause 11.0 F:.....V:.....T:.....			
12	Effecting insurances Clause 12.0 F:.....V:.....T:.....			
13	13,0 No Clause			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
14	<p>Security</p> <p>Notwithstanding the provisions of sub-clause 14.1, the contractor shall submit with his tender a letter of intent from an accredited guarantor, undertaking to provide the selected JBCC constructio guarantee to the Provision of Security format appended to these bills of quantities.</p> <p>The employer reserves the riht to reject a construction guarantee if, in the employer, the guarantor is not accredited.</p> <p style="text-align: center;">Clause 14.0</p> <p>F:.....V:.....T:.....</p> <p>EXECUTION</p>			
15	<p>Preparation for and execution of the Works</p> <p style="text-align: center;">Clause 15.0</p> <p>F:.....V:.....T:.....</p>			
16	<p>Access to the Works</p> <p>The contractor shall afford all reasonable access to other contractors and/or sub-contractors who may be employed by the client to execute other work whether in connection with the Contract Work or not.</p> <p style="text-align: center;">Clause 16.0</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
17	<p>Contract instructions</p> <p style="text-align: center;">Clause 17.0</p> <p>F:.....V:.....T:.....</p>			
18	<p>Setting out of the Works</p> <p>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.</p> <p style="text-align: center;">Clause 18.0</p> <p>F:.....V:.....T:.....</p>			
19	<p>Assignment</p> <p style="text-align: center;">Clause 19.0</p> <p>F:.....V:.....T:.....</p>			
20	<p>Nominated Subcontractors</p> <p style="text-align: center;">Clause 20.0</p> <p>F:.....V:.....T:.....</p>			
21	<p>Selected subcontractors</p> <p style="text-align: center;">Clause 21.0</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
22	Employer's Direct Contractors Clause 22.0 F:.....V:.....T:.....			
23	Contractor's Domestic Subcontractors Clause 23.0 F:.....V:.....T:.....			
	COMPLETION			
24	Practical completion Clause 24.0 F:.....V:.....T:.....			
25	Works completion Clause 25.0 F:.....V:.....T:.....			
26	Final completion Clause 26.0 F:.....V:.....T:.....			
27	Latent defects liability period Clause 27.0 F:.....V:.....T:.....			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
Brought Forward				R
28	Sectional completion Clause 28.0 F:.....V:.....T:.....			
29	Revision of date for practical completion Subclause 29.1.1 is hereby deleted and substituted by the following: Exceptionally inclement whether, which shall only relate to weather with a degree of inclemency which is materially greater than or is materially beyond the average inclemency experienced in the past five years and/or recorded, in terms of available records or otherwise, at or for the area in which the site is situated, for the period(s) in questions. Any revision of date of practical completion which may, in terms of this clause be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally time, during which exceptionally inclement whether contractor is is experienced and/or recorded in the vagaries of the weather. area in which the site is situated, is exceeded. The inclement weather by which the average periods of therefore to make allowance for normal Clause 29.0 F:.....V:.....T:.....			
30	Penalty for non-completion Clause 30.0 F:.....V:.....T:..... Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
	PAYMENT			
31	<p>Interim payment to the contractor</p> <p>Notwithstanding in this or any other clause, materials and goods stored off site shall not be included in the amount authorised for payment</p> <p>Subclause 31.9 is hereby amended by the substitution of the words "seven (7) calendar days" in the first line by the words "twenty one (21) calendar days".</p> <p>Subclause 31.10 is hereby amended by the substitution of the words "practical completion" in the second and fourth lines by the word "final completion".</p> <p style="text-align: center;">Clause 31.0</p> <p>F:.....V:.....T:.....</p>			
32	<p>Adjustment to the contract value</p> <p>Notwithstanding the provisions of subclause 32.13 or any other clause, all fluctuations in costs shall be for the account of the contractor. See also subclause 42.4.6</p> <p>Where prices are submitted by the contractor and/or sub-contractors during progress of the works in respect of 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</p>			
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	Clause 32.0			
	F:.....V:.....T:.....			
33	Recover of expense and loss			
	Clause 33.0			
	F:.....V:.....T:.....			
34	Final account and final payment			
	Subclause 34.11 is hereby amended by the substitution of the words " practical completion" in the third line by the words" final 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 after final completion after the date of issue of the certificate of final completion but only for such period as the settlement of the final account is delayed by non-performance of the Principal Agent or the employer of his agents. In evaluating non- performance for purposes of this clause a reasonable time shallbe 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.			
	Clause 34.0			
	F:.....V:.....T:.....			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
35	Payment to other parties Clause 35.0 F:.....V:.....T:.....			
	<u>CANCELLATION</u>			
36	Cancellation by Employer- Contractor's default Clause 36.0 F:.....V:.....T:.....			
37	Cancellation by Employer - loss and damage Clause 37.0 F:.....V:.....T:.....			
38	Cancellation by Contractor- Employer's default Clause 38.0 F:.....V:.....T:.....			
39	Cancellation- cessation of the Works Clause 39.0 F:.....V:.....T:.....			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	<u>DISPUTE</u>			
40	Dispute settlement			
	Clause 40.0			
	F:.....V:.....T:.....			
	<u>SUBSTITUTE PROVISIONS</u>			
41	State clauses			
	Clause 41.0			
	<u>CONTRACT VARIABLES</u>			
	<u>THE SCHEDULE</u>			
42	42.0 Pre-tender information			
	F:.....V:.....T:.....			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
Brought Forward				R -
42.1 <u>CONTRACTING AND OTHER PARTIES</u>				
42.1.1	<p>Employer Freedom Park</p> <p>Postal address Cnr Korch & 7th Avenue, Salvokop Pretoria</p> <p>Code 0001</p> <p>Telephone: (012) 336 4000</p> <p>Facsimile: -12</p>			
42.1.2	<p>P.A /P.M: Imbeu Developments & Project Managers (5.1)</p> <p>Postal address: Office suite 313 353 Festival Street, Hartfield</p> <p>Code 28</p> <p>Tel: (012) 004 1796</p> <p>Fax:</p> <p>E-Mail info@imbeu.co.za</p>			
Carried Forward				R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	<u>42.2 CONTRACT DETAILS</u>			
	4.2.2.1 Works description:			
	The construction of the main entrance gate			
	4.2.2.2 Site description..			
	The site is located at Koch St & 7th Ave, Salvokop, Pretoria, 0002			
	4.2.2.3 Work or installations by direct contractors:			
	(22.2) Not Applicable			
	4.2.2.4 Specific options that are applicable to a State organ only			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	(41.0) Where so:			
	(1) Legislation applicable to the interest rate: 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			
	(2) Lateral support insurance to be effected by the Contractor : No			
	(3) Payment will be made for materials and goods: Yes			
	(4) Dispute resolution by litigation: Yes			
	(5) Extended defects liability period applicable to the following elements: N/A			
	42.2.5 Possession of the site is intended to be given on: TBC			
	(15.2.1) Date to be indicated after contract award			
	42.2.6 Period for the commencement of the Works after the Contract takes possession of the site			
	(15.3) Five (5) working days			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
42.2.7	For the works as a whole:			
(24.3.1)	The date for practical completion and the penalty per calendar day.			
	<p>The programme and cashflow to be submitted within thirty calendar days after site handover will form part of the deliverable milestones. Failure to meet these shall be deemed to be in breach of contract. Should the contractor fail to submit both within this period, the r Principal Agent and /or Quantity Surveyor shall impose both and the contracto have seven working days to counter such with an acceptable programme and cash-flows. Acceptability shall be solely decided by the Principal Agent and/or Quantity and/or Project Manager.</p> <p>Date:</p> <p>To be indicated after contract award</p> <p>Penalty:</p> <p>R 10000.00 (V.A.T Excl.) per day</p>			
42.2.8	For the works in sections:			
	Not Applicable			
42.2.9	The law applicable to this Agreement shall be that of:			
(1.2)	Republic of South Africa			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
42.3	INSURANCES			
42.3.1	Contract Works insurance to be effected by: (10.1,10.2,12.1) Contractor For the sum of: Equal to the Contract Sum plus 20% With a deductible of: Equal to 0,1% of the above insured amount			
42.3.2	Supplementary insurance is required: (10.1,10.2,1) SASRIA			
42.3.3	Public liability insurance to be effected by: (11.1,12.1) Contractor For the sum of: R5,000,000.00 (Five million rand only) With a deductible of: 0.1% of the above insured amount.			
42.3.4	Support insurance to be effected by the employer (11.1,12.1) Not Applicable			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
Brought Forward				R -
42.4 DOCUMENTS				
42.4.1	Waiver of Contractor's lien or right of continuing possession is required: (3.3,15.1.3,31.16.2)			
	Yes			
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/lump sum document is to be submitted within working days: (15.1.1) Five (5)			
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 Fixed and not adjusted			
Carried Forward				R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
(31.5.3)	Yes			
42.4.7	Details of changes made to the provision of JBCC standard documentation:			
(3.10)	A. Principal Building Agreement			
	Subclause 3.1 deleted			
	Subclause 3.3 amended			
	Subclause 4.4 added			
	Subclause 7.3 added			
	Subclause 14.9 added			
	Subclause 18.5 added			
	Subclause 29.1 .1 substituted			
	Subclause 31.9 amended			
	Subclause 31.10 amended			
	Clause 32.0 amended			
	Subclause 34.11 amended			
	B. JBCC Preliminaries			
	Clause 2.1 amended			
	Clause 2.2 amended			
	Clause 2.6 amended			
	Clause 3.1 amended			
	Clause 4.1 amended			
	Clause 5.1 amended			
	Clause 5.3 amended			
	Clause 9.2 amended			
	Clause 11.3 amended			
	Clause 16 amended			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
Brought Forward				R -
<u>1.0 DEFINATIONS AND INTERPRETATION</u>				
44	Definations and interpretation <p style="text-align: center;">Clause 1.0</p> F:.....V:.....T:.....			
<u>2.0 DOCUMENTS</u>				
45	Checking of documents. The items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 1999 edition, and no claim arising from brevity of . description of items fully described in the said Model Preambles for Trades will be entertained <p style="text-align: center;">Clause 2.1</p> F:.....V:.....T:.....			
46	Provisional bills of quantities. These bills of quantities shall <u>not</u> be used for ordering purposes. <p style="text-align: center;">Clause 2.2</p> F:.....V:.....T:.....			
Carried Forward				R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
47	<p>Availability of construction documentation.</p> <p>The budgetary allowances allocated for sub-contract amounts allocated for subsequent trades included in this document will be separately procured, based on multiple procurement of sub-contractors during construction period.</p> <p style="text-align: center;">Clause 2.3</p> <p>F:.....V:.....T:.....</p>			
48	<p>Interest of agents.</p> <p style="text-align: center;">Clause 2.4</p> <p>F:.....V:.....T:.....</p>			
49	<p>Priced documents.</p> <p>Notwithstanding the provisions of this clause, the contractor shall deposit/submit the priced documents within the time as stated in A41.4.4 of the Schedule of Contract Variables.</p> <p>Rates (items)</p> <p>Where appropriate, rates for similar items in these bills of quantities should be the same.</p> <p>Prior to signing of the Principal Building Agreement the Principal Agent shall be at liberty to make such adjustments to individual rates, whether they are Subcontractor's rates or not, as will eliminate errors or discrepancies or which he considers to be imbalanced, unreasonable or unrealistic rates, without altering the tender sum.</p> <p style="text-align: center;">Carried Forward</p>			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
	Clause 2.5			
	F:.....V:.....T:.....			
50	Tender submission			
	This clause is amended by substituting "JBCC form of Tender" with "Official form of Tender:			
	Clause 2.6			
	F:.....V:.....T:.....			
	<u>3.0 THE SITE</u>			
51	Define works area.			
	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the Principal Agent on handing over the site.			
	Clause 3.1			
	F:.....V:.....T:.....			
52	Geotechnical investigation.			
	Clause 3.2			
	F:.....V:.....T:.....			
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
Brought Forward				R -
53	<p>Inspection of site.</p> <p>There will be a compulsory site inspection and briefing meeting as per the tender advertisement. Failure to attend will lead to disqualification of the tender.</p> <p style="text-align: center;">Clause 3.3</p> <p>F:.....V:.....T:.....</p>			
54	<p>Existing premises occupied</p> <p style="text-align: center;">Clause 3.4</p> <p>F:.....V:.....T:.....</p>			
55	<p>Previous work-dimensional accuracy</p> <p style="text-align: center;">Clause 3.5</p> <p>F:.....V:.....T:.....</p>			
56	<p>Previous work-defects</p> <p style="text-align: center;">Clause 3.6</p> <p>F:.....V:.....T:.....</p>			
57	<p>Service-known</p> <p style="text-align: center;">Clause 3.7</p> <p>F:.....V:.....T:.....</p>			
58	<p>Service-known</p> <p style="text-align: center;">Clause 3.8</p> <p>F:.....V:.....T:.....</p>			
Carried Forward				R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
59	Protection of trees Clause 3.9 F:.....V:.....T:.....			
60	Articles of value Clause 3.10 F:.....V:.....T:.....			
61	Inspection of adjoining properties Clause 3.11 F:.....V:.....T:.....			
	<u>4.0MANAGEMENT OF CONTRACT</u>			
62	Management of the works The Contractor shall obtain all necessary particulars of Subcontractors' work timeously so that provision for recesses, chases,holes,etc.can be made Clause 4.1 F:.....V:.....T:.....	1		R
63	Programming for the Works Clause 4.2 F:.....V:.....T:.....	1		R
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
64	Progress meetings Clause 4.3 F:.....V:.....T:.....	1		R
65	Technical meetings Clause 4.4 F:.....V:.....T:.....	1		R
66	labour and plant records Clause 4.5 F:.....V:.....T:.....	1		R
<u>5.0 SAMPLES AND SHOP DRAWINGS</u>				
67	Samples of materials Clause 5.1 F:.....V:.....T:.....			
68	Workmanship samples Clause 5.2 F:.....V:.....T:.....			
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
69	Shop drawings Clause 5.3 F:.....V:.....T:.....			
70	Compliance with manufactures; instructions Clause 5.4 F:.....V:.....T:.....			
<u>6.0 TEMPORARY WORKS AND PLANT</u>				
71	Deposits and fees Clause 6.1 F:.....V:.....T:.....			
72	Enclosure of the works Clause 6.2 F:.....V:.....T:.....	1		R -
73	Advertising Clause 6.3 F:.....V:.....T:.....			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
74	Plant, equipment, sheds and offices Clause 6.4 F:.....V:.....T:.....	1		R -
75	Main noticeboard Clause 6.5 F:.....V:.....T:.....	1		R -
76	Subcontractors notice board Clause 6.5 F:.....V:.....T:.....			
	<u>7.0 TEMPORARY SERVICES</u>			
77	Location Clause 7.1 F:.....V:.....T:.....			
78	Water Clause 7.2 F:.....V:.....T:.....	1		R -
79	Electricity Clause 7.3			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
	F:.....V:.....T:.....			
80	Telecommunication equipment Clause 7.4			
	F:.....V:.....T:.....			
81	Ablution facilities Clause 7.5			
	F:.....V:.....T:.....			
	<u>8.0 PRIME COST AMOUNTS</u>			
82	Responsibility for prime cost amounts Clause 8.1			
	F:.....V:.....T:.....			
	<u>9.0 ATTANDANCE ON NOMINATED/SELECTED SUBCONTRACTOR</u>			
83	General attendance Clause 9.1			
	F:.....V:.....T:.....	1		R
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
84	<p>Special attendance</p> <p>The last three words contained within Clauses 9.2, ie. "... in the schedule" shall be deleted and replaced by'.... within the relevant item incorporated in these bills of quantities".</p> <p align="right">Clause 9.2</p> <p>F:.....V:.....T:.....</p>			
85	<p>Commissioning-fuel,water and power</p> <p align="right">Clause 9.3</p> <p>F:.....V:.....T:.....</p>			
	<u>10.0 FINANCIAL ASPECTS</u>			
86	<p>Statutory taxes,duties and levies.</p> <p>Provision is made in the summary of these bills of quantities inclusion of Value Added Tax (VAT)</p> <p align="right">Clause 10.1</p> <p>F:.....V:.....T:.....</p>			
87	<p>Payment of preliminaries</p> <p align="right">Clause 10.2</p> <p>F:.....V:.....T:.....</p>			
88	<p>Adjusment of preliminaries</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	<p>Should the contractor select Alternative B but fails to provide the information required prior to signing of the contract, the Principal Agent shall have the right to select either Alternative A or B for the adjustment of preliminaries. If the Principal Agents selects Alternative B he shall be entitled to make assumptions at his discretion regarding the information which the contractor would normally have provided prior to the signing of the contract</p> <p style="text-align: right;">Clause 10.3</p> <p>F:.....V:.....T:.....</p>			
89	<p>Payment certificate cash flow</p> <p style="text-align: right;">Clause 10.4</p> <p>F:.....V:.....T:.....</p>			
	<u>11.0 GENERAL</u>			
90	<p>Protection of the Works</p> <p style="text-align: right;">Clause 11.1</p> <p>F:.....V:.....T:.....</p>			
91	<p>Protection/isolation of existing/sectionally occupied Works</p> <p style="text-align: right;">Clause 11.2</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
92	<p>Site security</p> <p>The contractor shall provide and maintain twenty- four hour site security and loss control system all the satisfaction of the principal agent. It is envisaged that these procedures will incorporate, inter ali,gate control for personnel and vehicles, individuals entry permits, regular security patrols and the like.</p> <p align="right">Clause 11.3</p> <p>F:.....V:.....T:.....</p>			
93	<p>Notice before covering work</p> <p align="right">Clause 11.4</p> <p>F:.....V:.....T:.....</p>			
94	<p>Disturbance</p> <p align="right">Clause 11.5</p> <p>F:.....V:.....T:.....</p>			
95	<p>Enviromental disturbance</p> <p align="right">Clause 11.6</p> <p>F:.....V:.....T:.....</p>			
96	<p>Works cleaning and clearing</p> <p align="right">Clause 11.7</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
97	Vermin Clause 11.8 F:.....V:.....T:.....			
98	Overhand work Clause 11.9 F:.....V:.....T:.....			
99	Instruction manuals and guarantees Clause 11.10 F:.....V:.....T:.....			
100	As built information Clause 11.11 F:.....V:.....T:.....			
101	Tenant installations Clause 11.12 F:.....V:.....T:.....			
	12.0 SCHEDULE OF VARIABLES			
	12.1 PRE-TENDER INFORMATION			
102	Pre-tender information is given hereunder:			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	<p>Clause (and reference)</p> <p>12.1.1 Provisional bills of quantities</p> <p>(2.2) The quantities are provisinal</p> <p align="center">Yes</p> <p>12.1.2 Availability of construction documentation.</p> <p>(2.3) Construction documentation is not complete.</p> <p align="center">No</p> <p>12.1.3 Interesting agent</p> <p>(2.4) The agent have nointerest in this project apart from their professional interest</p> <p>12.1.4 Defined Worksarea</p> <p>(3.1) The contractor will not be allowed to extend his operations beyond the areas indicated on the drawings or defined by the Principal Agent</p> <p>12.1.5 Geotechnical investigation</p> <p>(32.) A Report is available for inspection at the civil and Structural Engineer's offices</p> <p>12.1.6 existing premises occupied</p> <p>(3.4) Yes</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	12.1.7 Previous work- dimensional accuracy not applicable			
	12.1.8 Previous work- defects (3.6) Not aplicable			
	12.1.9 Services- known. (3.7) Not aplicable			
	12.1.10 Protecton of trees. (3.9) No specific requirements			
	12.1.11 Inspection of adjoining properties (3.11) Not aplicable			
	12.1.12 Enclosure of the Works (6.2) Not aplicable			
	12.1.13 Office (6.4.3) The contarctor shall provide, maintaining and remove on completion one meeting room at least 8.0 X5.0 m on plan and 2.6m high internally.The room shall be well lit and fitted with threepower outlets,.The contractor shall furnish the room with a large table and at least ten chairs			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	12.1.14 Main Notice board	2		
	(6.5) one main notice board shall be provided			
	12.1.15 Subcontractor notice board			
	(6.6) A notice board is required.			
	No			
	12.1.16 Water			
	(7.2) Option A (by contractor)			
	Yes			
	12.1.17 Electricity			
	Option A (by contractor)			
	Yes			
	12.1.18 Telephone			
	Facsimile			
	Yes			
	E-mail			
	Yes			
	12.1.19 Ablution Facilities			
	Option A (by contractor)			
	Yes			
	12.1.20 Protection of existing/sectionally occupied works			
	(11.2) Protection is required			
	No			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	<p>12.1.21 Special Attendance</p> <p>(9.2) Details of special attendance required shall be as detailed within the items relevant to each particular sub-contract as incorporated hereinafter in these bills of quantities.</p> <p>12.1.22 Protection of the Works</p> <p>(11.1) No specific requirements</p> <p>12.1.23 Disturbance</p> <p>(11.5) Whilst the employer shall not impose restrictions upon the Contractor's working hours, the contractor shall take all measures available to him in order to minimise noise during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.</p> <p>12.1.24 Environmental disturbance</p> <p>(11.6) Not applicable</p> <p>12.2 POST-TENDER INFORMATION</p> <p>103 Post tender information required under clauses 12.2.1 to 12.2.3 shall be completed prior to contract signing, in consultation with the contractor.</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	<u>SUPPLEMENATRY DOCUMENTATION</u>			
104	<p>As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the Structural engineering drawings and are to be submitted to the Principal Agent and the strctural engineer for their records.</p> <p>F:.....V:.....T:.....</p>			
105	<p>Overtime</p> <p>Should overtime be required to be worked for any reason watsoever, the costs of such overtime are to be borne by the contractor unless the Principa Agent specifically authorized in writing, prior to the execution therefore,that costs for such overtime are to be borne by the employer.</p> <p>F:.....V:.....T:.....</p>			
106	<p>Site Instruction</p> <p>Contractor instruction issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the contractor.</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
107	<p>Labour Record.</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 description of tradesmen and labourers employed by him and all sub- contractors on the works each day of that week</p> <p>F:.....V:.....T:.....</p>			
108	<p>Plan record.</p> <p>At the end of each week the contractor shall provide the Principal Agent with a writte record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works each day of that week.</p> <p>F:.....V:.....T:.....</p>			
109	<p>Non Cession of Monies</p> <p>The contractor shall not cede assign hid rights or claims to any monies due or to become due under this contract.</p> <p>F:.....V:.....T:.....</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
110	<p>HIV/ AIDS Awareness.</p> <p>It is eguired of the contractor to thoroughly study the HIV/AIDS Specification(PW1544) of the Department of Public Works that must be read together with and is deemed to be incorporated undre this section of the Bills of Quantitites. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicity pointed out that all requirements of the aforemeentioned specification are deemed to be priced hereunder,as the said items or extras to the contract in this regard shall be entertained.</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non- compliance, the Principal Agent, notwithstanding the provisions of Clause A31.0 Section A or any other Clause to the contray, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory , proof of compliance. The contractor shall not be entitled to any compensation whatsoever nature including interest due to such delay of payment.</p>	PS		
111	<p>Awareness Champion,</p> <p>Selection , appointment, briefing and making available of an Awareness Champion including provision of all relevant services all accordance of HIV/AIDS . Specification</p> <p>F:.....V:.....T:.....</p>	1		R -
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
Brought Forward				R -
112	<p>Awareness Workshop</p> <p>Selection and appointment of competent of Service Provider approved by the Principle Agent, provision of a Service Provider Workshop Plan and suitable venue, conducting awareness workshop by means of traditional and /or modern multi-media techniques, including follow-up courses,making available all tuition material and performing assessment procedures in accordance with the HIV/AIDS the Specification.</p> <p>F:.....V:.....T:.....</p>	1		R -
113	<p>Posters,Booklets,Videos,etc.</p> <p>Provision, displaying, maintaining and replacing necessary of four plastic laminated posters, booklets and educational video,etc for the duration of construction period,in all accordance with the HIV/AIDS Specification.</p> <p>F:.....V:.....T:.....</p>	1		R -
114	<p>Access to Condoms</p> <p>Provision and maintenance condoms 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 accordance with HIV/AIDS Specification.</p> <p>F:.....V:.....T:.....</p>	1		R -
Carried Forward				R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
115	<p>Monitoring</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 construction period are close out, all in accordance with the HIV/AIDS Specification.</p> <p>F:.....V:.....T:.....</p>			
116	<p>Occupational Health and Safety Act</p> <p>The contractor shall comply with all the requirements set out in the construction regulation 2003 issued under the Occupational Health and Safety Act, 1993 (Act No.85 of 1993).</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification and must be read together with and is deemed to be incorporated under the section of the Bills of Quantities.</p> <p>The contractor must note that compliance with the Occupational Health Safety Act Construction, regulation and Health Safety Specification is compulsory. In the event of partial or total non-compliance the Principal Agent notwithstanding the provision of clause A31.0 of section A or any other Clause to the Contrary, reserves the right to delay issuing any progress until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature including interest due to such delay of payment.</p>			
	Carried Forward			R -

FREEDOM PARK SECURITY ENTRANCE GATE

Bill No 1 PRELIMINARIES AND GENERAL

SECTION 1

Item no.	Description	Quantity	Rate	Amount
	Brought Forward			R -
	Provision for pricing of the Occupational Health and Safety Act, construction regulation and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained. F:.....V:.....T:.....	1		R -
	Carried to Final Summary			R -

FREEDOM PARK SECURITY GATES

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 2 : BUILDING WORKS				
	BILL NO. 2 : EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.				
	SUPPLEMENTARY PREAMBLES				
	Nature of groundThe tenderer acquaint himself by personal examination of the nature of the ground. Descriptions of excavations shall be deemed to included all ground conditions classifiable as "earth" and where conditions of a more difficult character are indicated these are separately measured. Carting away of excavated materialDescriptions of carting away of excavated material shall be deemed to include loading excavated material onto truck directly from the excavation or alternatively, from stock piles situated on the building siteExcavation 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"				
	Note: Tenderer are advised to study the Model Preambles for Trades before pricing this bill				
	SITE CLEARANCE ETC				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	3000		R -
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	3000		R -
	BLOCK 1 ENTRANCE BUILDINGS (SECURITY GUARD HOUSE AND OFFICES)				
	EXCAVATIONS				
	Excavations in earth not exceeding 2m deep				
3	Foundations	m3	230		R -
	Extra over trench and hole excavations for excavation in:				
4	Soft rock	m3	85		R -
5	Hard rock	m3	45		R -
	Extra over all excavations for carting away				
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	120		R -
	Risk of collapse of excavations				
7	Side of trench and hole excavations from natural, elevated or reduced ground level not exceeding 1500mm deep	m2	976		R -
	Keeping excavations free of water				
8	Keeping excavations free of water other than subterranean water (Proven Method and Expenditure)	Item	1		R -
	FILLING				
	Earth filling obtained from the excavations				
	Earth filling obtained from excavations and/or prescribed stock piles on site, compacted in 150mm layers to 93% Mod AASHTO density				
9	Backfilling to strip footings, bases etc	m3	106		R -
	Earth filling supplied by the contractor				
	Earth filling obtained from disgnated borrow pits and/or prescribed comercial sources, compacted in 150mm layers				
10	Backfilling to strip footings, bases etc	m3	120		R -
	Compaction of surfaces				
11	Scarifying ground surface under floors etc for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and re-compacting to 93% Mod AASHTO density	m2	110		R -
	Prescribed density tests on filling				
	Modified AASTHO Density test				
12	Modified AASTHO Density test	No	24		R -
	SOIL POISONING				
	Soil insecticide in accordance with Architects Specifications				
13	Under floors etc including forming and poisoning shallow furrows against foundations walls etc. filling and ramming	m2	126		R -
14	To bottoms and sides of trenches etc	m2	960		R -
	TOTAL CARRIED TO SUMMARY SECTION				R -

SECTION 2 : BUILDING WORKS

BILL NO. 3 : CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

Cost of test

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)

Formwork

Descriptions 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

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15Mpa/19mm Concrete

1	Ramps	m3	5	R	-
2	Apron	m3	4	R	-
<u>25Mpa/19mm Concrete</u>					
3	Strip footings and Column Bases	m3	110	R	-
4	Surface beds on waterproofing	m3	15	R	-

REINFORCED CONCRETE CAST IN/ON FORMWORK

25MPa/19mm concrete

5	Columns and concrete walls	m3	30	R	-
6	Roof Beam	m3	10	R	-

SMOOTH FORMWORK

Smooth formwork to soffits

7	Slab and Roof Beam	m2	60	R	-
---	--------------------	----	----	---	---

TEST CUBES

8	Allow for all necessary concrete test cubes size 150 x 150 mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the Representative/Agent. One set consist of 6no. 150x150mm cubes	Set	18	R	-
---	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----	----	---	---

CONCRETE SUNDRIES

Finishing top of surface bed smooth with a power float

9	Surface beds, slabs, etc	m2	130	R	-
<u>Finishing top of surface bed smooth with a wood float</u>					
10	Apron	m2	40	R	-
11	Apron	m2	16	R	-

MOVEMENT JOINT

10 mm Wide Jointex with 10 x 10mm tear off strip with Polysulphide on surface beds not exceeding 300mm wide

12	Not exceeding 300mm high to edges of surface bed	m	24	R	-
13	<u>10mm Construction joint between vertical concrete surfaces, debonded with Lime Wash or Bitumen, groove and sealant saw cut filled with Polysulphide sealant Durakol 25 or Similar approved with Polyethylene bond breaker backing tape</u>	m	20	R	-
14	<u>Surface beds and Apron not exceeding 300mm thick 25 x 3mm Deep saw-cut joints in top of concrete</u>	m	25	R	-

TOTAL CARRIED FORWARD

R

TOTAL BROUGHT FORWARD

R

REINFORCEMENT

Mild steel reinforcement for structural concrete work

15 8mm diameter bars

t

2

R

High tensile reinforcement for structural concrete work

17 8mm Diameter bars

t

2

R

18 12mm Diameter bars

t

5

R

19 16mm Diameter bars

t

5

R

Fabric mesh reinforcement

20 Type Ref 193 fabric reinforcement in concrete slabs etc.

m2

130

R

21 Type Ref 100 fabric reinforcement on ceilings

m2

10

R

TOTAL CARRIED TO SUMMARY SECTION

R

SECTION 2 : BUILDING WORKS

BILL NO. 4 : MASONRY

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371 A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Face bricks

Bricks shall be ordered timorously to obtain uniformity in size and colour

BLOCK 1 ENTRANCE BUILDINGS (SECURITY GUARD HOUSE AND OFFICES)

FOUNDATION BRICKWORK

Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227).

1	Half brick walls	m2	0	R	-
2	One brick walls	m2	330	R	-
3	Columns	m3	10	R	-

SUPERSTRUCTURE BRICKWORK

Brickwork of NFP burnt clay bricks (14MPa nominal compressive strength) in class II mortar (SABS 227).

4	Half Brick Walls	m2	60	R	-
5	One Brick Walls	m2	1020	R	-
6	One and a half Brick walls	m2	5	R	-
7	One brick gable Walls	m2	60	R	-
8	Half brick wall in beamfilling	m2	30	R	-
9	Columns	m3	10	R	-

BRICKWORK SUNDRIES

2.5mm Brickwork Reinforcement

10	75mm Wide built in horizontally	m	360	R	-
11	150mm Wide built in horizontally	m	7200	R	-

FACE BRICKWORK

Moroccan red blend travertine or similar approved face bricks pointed with flush horizontal and vertical joints

12	Extra over brickwork for face brickwork in foundations (provisional)	m2	2	R	-
13	Extra over brickwork for face brickwork	m2	2	R	-
14	Extra over brickwork for brick-on-edge header course lintels 1 course(s) high, pointed on face	m	2	R	-

Brick-on-edge header coarse copings, sills etc of Moroccan red blend travertine or similar approved face bricks, pointed with recessed joints on all exposed faces

15	220mm Wide sills set sloping and slightly projected	m	10	R	-
----	-----------------------------------------------------	---	----	---	---

TOTAL CARRIED TO SUMMARY SECTION

R

SECTION 2 : BUILDING WORKS

BILL NO. 5 : WATERPROOFING

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill

DAMP-PROOFING OF WALLS AND FLOORS

One layer 375 micron embossed damp proof course (SABS 9520 Type B)

1 In walls

m2

30

R

One layer of 250 micron damp proof course (SABS Specification 9520 Type C) waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape

2 Under Surface bed

m2

130

R

TOTAL CARRIED TO SUMMARY SECTION

R

SECTION 2 : BUILDING WORKS

BILL NO. 6 : ROOF COVERING

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

IBR ROOF COVERING

Guarantees

The contractor will be required to provide a written guarantee for the roof covering as follows:

CHROMADECK roof covering material - 10 years Workmanship - 10 years

Certificate for Galvanised Roof Sheeting

The contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied, complies with the required thickness specified

Note: Tenderers are advised to study the Model Preambles for Trades before pricing this bill

IBR PROFILE SHEETING

CHROMADECK-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 30°, fixed to timber purlins

1 Roof covering with 30 degree pitch and accessories, including ridge capping, gable and gable trims, flashings etc. m2 250 R
Concealed fixed to 76x50mm SA pine Timber purlins @ 1200mm c/c (elsewhere measured)

ROOF AND WALL INSULATION

Sisalation 405 Reflective foil underlay in accordance with SANS 1381-4 overlapped longitudinally by 100mm; on and including galvanised straining wire spaced at 383mm centres fixed parallel over purlins to manufacturer's instruction

2 Insulation sheeting laid taut over purlins (at approximately 1200mm centres) and fixed concurrently with roof covering with minimum 150mm stapled laps including galvanised straining wires at not exceeding 400mm centres and one-sided tape at edges where required (Layer 1) (L1) m2 250 R

TOTAL CARRIED TO SUMMARY SECTION

R

BILL NO. 7 : CARPENTRY AND JOINERY, ETC.

PREAMBLES

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres and where described as "bolted", the bolts have been given elsewhere.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, rails, etc. Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts.

PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC

Trusses are at maximum 1 200mm centres. Roof coverings are CHROMADECK KIPLOCK roof sheeting metal on purlins. References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings numbered 7 annexed to these bills of quantities (accompanying these bills of quantities?) for tender purposes. Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences.

PREFABRICATED ROOF TRUSSES, ETC.

1	Roof construction to 30 degree double pitched roof with SA Pine Timber trusses at 1000mm c/c as per roofing specialist design and specification complete with 114 x 38mm SA pine timber wall plates, 50 x 50mm SA pine timber purlins, bracing, platform, laminated beams and support for future solar geysers, etc	m2	260	R
---	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----	-----	---

Sundries

2	30x1.6mm Galvanised steel straps cast into roof beams deep into brickwork	No	55	R
3	Two Coats creosote on sawn timbers	m2	138	R
4	Engineers Certificate	Item	1	R

EAVES, VERGES, ETC

Medium density plain fibre-cement fascia's and barge boards

5	Everite medium density plain ungrooved Nutec fascia boards (Code: 041-202), size 225x12mm, fixed to 76x50mm SAP timber tilter batten and 38x38mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.	m	72	R
---	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---	----	---

SKIRTINGS

Fine grained compresses woodpulp / cane purpose made

6	76 x 19 mm Skirtings, nailed	m	260	R
---	------------------------------	---	-----	---

DOORS

Masonite backing side hung doors

7	Hardwood double door 44 x 1613 x 2032mm with masonite backing, hung to steel frame, including Lockblocks and wood screws	No	2	R
8	Semi Solid 44 x 813 x 2032mm with masonite backing, hung to steel frame, including 400x400mm Aluminium Louvre Grill, Lockblocks and wood screws	No	10	R

CUPBOARDS TO KITCHENS, BEDROOMS, ETC

Built in cupboards and Shelves

9	As per specialist for the supply and installation of built in cupboards and shelves as indicated on Architectural Drawings	SUM	1	R
---	----------------------------------------------------------------------------------------------------------------------------	-----	---	---

TOTAL CARRIED TO SUMMARY SECTION

R

SECTION 2 : BUILDING WORKS

BILL NO. 8 : CEILINGS, PARTITIONS AND ACCESS FLOORING

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal.

NAILED-UP CEILINGS

SUPPLEMENTARY PREAMBLES

Openings

Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc.

6mm Nutec ceilings

1 Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, standard size: 1200x3600mm fixed to 38x38mm SAP timber bracing at 600mm c/c using 32x2,5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations

m2

110

R

2 Extra over ceilings 600x600mm trap door opening with 50x38mm SAP braced frame, filled with top hinged metal panel door. (Colour White)

No

1

R

Hardboard cornices

3 83mm Masonite covered hardboard cornices nailed to battens at max. 300mm c/c all round

m

260

R

120mm Flexible fibreglass insulation

4 120mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of bracing between roof timbers etc

m2

110

R

TOTAL CARRIED FORWARD TO SUMMARY SECTIONS

R

SECTION 2 : BUILDING WORKS

BILL NO. 9 : FLOOR COVERINGS, WALL LININGS, ETC

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013

SUPPLEMENTARY PREAMBLES

Fixing

Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc

FLOOR COVERING

300 x 300 x 2mm semi flexible vinyl tiles

1	On floors	m2	110	R	-
---	-----------	----	-----	---	---

POLISH, SEALERS, ETC.

Scrub and seal with three coats water based Polymer emulsions:

2	On Vinyl Flooring	m2	110	R	-
---	-------------------	----	-----	---	---

WALL TILING

152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to plaster and flush pointed with tinted grout on floors

3	On walls	m	85	R	-
---	----------	---	----	---	---

FLOOR TILING

152x152x6.5mm/5mm Thick Ceramic tiles fixed with adhesive to grano and flush pointed with tinted grout on floors

4	On floors	m	110	R	-
---	-----------	---	-----	---	---

SUNDRIES

Anodised aluminium corner protectors, stair nosing, expansion joint strips, etc

5	10mm Straight edge corner protectors	m	68	R	-
---	--------------------------------------	---	----	---	---

15mm Straight edge weather strip

m	16	R	-
---	----	---	---

T-Piece/Expansion

m	30	R	-
---	----	---	---

TOTAL CARRIED FORWARD TO SUMMARY SECTIONS

R

SECTION 2 : BUILDING WORKS

BILL NO. 10 : BATHROOM FITTINGS

BATHROOM FITTINGS

BY APPROVED MANUFACTURER

1	Front Flush Closed Couple Toilet Suite without toilet seat (or equal approved)	No	3	R	-
2	Technoplastic thermoplastic universal toilet seat with chrome-plated hinges with patented fixing system that always stays tight. 100% recyclable.	No	3	R	-
3	350mm long; 1/2"(15mm) x 1/2" (15mm) Female to Female Flexible Connector. (or equal approved)	No	9	R	-
4	medium wall hung basin. (430 x 390mm) 1 x punched tap hole in centre of basin. Includes wall fixing set. (or equal approved)	No	3	R	-
5	Slotted basin waste with plug, chrome plated. Includes: 62mm diameter flange, 77mm long shank and 32mm BSP male outlet connection with polymer backnut. (or equal approved)	No	3	R	-
6	basin type bottle trap with 75mm deep seal and telescopic waste connection pipe. 1½ female inletconnection; 1½ male outlet connection. Brass body, chrome plated. (or equal approved)	No	3	R	-
7	T Self Closing Pillar Tap. Grohe ECOJOY 5.7lt/min flow limiter with 3 adjustable flow times, short, medium and long. Approx 7; 15; 30 second (Pressure dependant) minimum recommended operation pressure 100kPa . (or equal approved)	No	1	R	-
8	Soap dispenser (or equal approved)	No	3	R	-
9	Paper towel dispenser (or equal approved)	No	3	R	-
10	Waste bin (or equal approved)	No	3	R	-
11	Raised paraplegic closed couple water closet with side lever; wall mounted dogleg grab rail and cistern grab rail combo. W=443mm H=855mm D=731mm White vitreous china. (or equal approved)	No	1	R	-
12	actionpillar tap. With 1/4 turn ceramic disc headpart, flanged backnut and blue indice for cold water application. 1/2"(15mm)BSP male iron connection end. (or equal approved)	No	1	R	-
13	Electronic hand dryer (or equal approved)	No	3	R	-
14	Toilet roll holder (or equal approved)	No	3	R	-
15	Simple shelf (or equal approved)	No	3	R	-
TOTAL CARRIED FORWARD TO SUMMARY SECTIONS				R	

BILL NO. 11 : METALWORKS**PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES**Fixing**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.

1

LOCKS

Manufactured by approved supplier

Euro profile cylinder SASH Lock - Chrome Plated

No 12 R -

66mm Privacy cylinder - Nickel Plated

No 2 R -

HANDLES

1Pr. Duba One lever handles on plate

No 12 R -

4

300mm Flush bolt - Satin Chrome

No 1 R -

150mm Flush bolt - Satin Chrome

No 1 R -

HINGES AND BOLTS

Rebate conversion set

No 2 R -

SUNDRIES

Manufactured by approved supplier

Floor mounted door stop - Satin Chrome

No 12 R -

175mm Floor operated door holder

No 2 R -

PRESSED STEEL DOOR FRAMES

1 1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 220mm wall

No 2 R -

Frame for door 1613 x 2032mm high

Frame for door 813 x 2032mm high door

No 2 R -

2 1.6mm pressed metal door frames incl 1.6mm sheet metal weather hood, double rebate with profiles to conform to SABS 1129-1977, fitted complete with one and a half pair heavy duty 100mm/4.2mm butt hinges, adjustable striking plate, rubber buffers and fixing lugs, suitable for 110mm wall

No 12 R -

3 Frame for door 813 x 2032mm high door

ALUMINIUM WINDOWS AND DOORS

Matt light grey powder coated windows Glazed with GSA SmartGlass - Neutral Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery; Supplied by window Manufacturer, all to Architects approval Burglar Proofing to be provided all to Architects approval.

900x1200mm Window (W01)

No 3 R -

900x900mm Window (W02)

No 6 R -

Matt light grey powder coated windows Glazed with Obscure glass Low E Smart Glass- complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, in accordance with NBR N schedule 1 and SANS 10137: 2012 Ironmongery; Supplied by window Manufacturer, all to Architects approval Burglar Proofing to be provided all to Architects approval.

5 900x900mm Window (W03)

No 6 R -

600x600mm Window (W07)

No 4 R -

900x600mm Window (W08)

No 4 R -

TOTAL CARRIED FORWARD

TOTAL BROUGHT FORWARD

STEEL GATES, SCREENS, ETC

1 Welded screens and gates

Gate 1 - As per gate schedule

Gate 2 - As per gate schedule

No

1

R

No

1

R

R

R

-

-

-

-

TOTAL CARRIED FORWARD TO SUMMARY SECTIONS

BILL NO. 12 : PLASTERING

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SCREEDS

Screeds wood floated, on concrete

25mm Thick screed on surface bed, incl chipping, cleaning and brushing with Cement/Sand slurry before screeding

m2

110

R

INTERNAL PLASTER

Cement plaster steel trowelled on brickwork

On walls

m2

640

R

On narrow widths

m2

60

R

EXTERNAL PLASTER

Cement plaster steel trowelled on brickwork

On walls

m2

600

R

Cement plaster steel trowelled on concrete

Plaster to roof beam

m2

30

R

TOTAL CARRIED FORWARD TO SUMMARY SECTIONS

R

SECTION 2 : BUILDING WORKS

BILL NO. 13 : GLAZING

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

Float glass

The term "float glass" is used for monolithic glass

No

3

R

MIRRORS

Silvered floated glass copper backed mirrors with polished edges, fixed to wall with double sided adhesive tape and silicone

Mirror 450 x 600mm high

GLAZING

GLAZING TO STEEL WITH PUTTY:

4mm Clear float glass:

Panes not exceeding 0,1 m2.

m2

20

4mm Obscure glass:

Panes not exceeding 0,1 m2.

m2

10

6 TOTAL CARRIED FORWARD TO SUMMARY SECTIONS

R

7

SECTION 2 : BUILDING WORKS

BILL NO. 14 : PAINTWORK

PREAMBLES

8

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

SUPPLEMENTARY PREAMBLES

9

PAINT SPECIFICATIONS

All painting shall be done in accordance with Architect specifications unless otherwise described

COLOURS

Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on the Munsell system in accordance with SANS 1091

ON INTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use

Walls

m2

680

R

ON EXTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use

Walls and beams

m2

600

R

ON SMOOTH CONCRETE SURFACES

One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for internal and external use

Slab

m2

30

R

ON FIBRE-CEMENT SURFACES

One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use

Fascia and barge boards not exceeding 300mm girth, including priming metal jointing strips

m2

51

R

Ceilings and cornices

m2

160

R

ON METAL SURFACES

One coat metal primer and two coats Plascon Velvegro, on steel

Door frames

m2

17

R

Gates

m2

15

R

ON WOOD SURFACES

One coat primer and two coats premium quality polyurethane enamel paint

External door

m2

10

R

Three coats superior quality clear matt varnish

Internal Door

m2

20

R

TOTAL CARRIED FORWARD TO SUMMARY SECTIONS

R

SECTION 2 : BUILDING WORKS

BILL NO.15 STRUCTURAL STEEL WORKS

SUNDRY STEELWORK

M20 Grade 8,8 high tensile Holding down bolts to Engineer's detail in stub columns welded to column and base reinforcements

No 60

R

320mm x 320mm x 6mm thick base plates welded to SHS 305X 305 X 12mm thick,columns to Eneer's detail

No 106

R

UC 305 X 305 UNIVESAL COLUMNS

tonnes 12,5

R

UB 254 X 102 UNIVESAL BEAMS

tonnes 3,5

R

25mm Non shrink grout under stub colymn base plates

m3 0,3

R

TOTAL CARRIED TO SUMMARY SECTIONS

R

SECTION 3 : EXTERNAL WORKS

BILL NO. 1 : EXTERNAL WORKS

PREAMBLES

The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.

LANDSCAPING

Grassing

Grassing of rolls approximately 50mm thick including fertilising grassed areas after completion of planting

Kikuyu grass over site

m2 480

R

Trees

Remove and grub large trees and stumps

Girth over 600mm up to 1000mm

No 4

R

Girth over 1000mm up to 2000mm

No 4

R

Girth over 2000mm up to 3000mm

No 2

R

Feature trees 50lt, Type 1 as per Architects Specifications

No 10

R

FENCING

complete with steel 75mm x 75mm x1,6mm steel post

Excavations in earth not exceeding 2m deep for steel post

400mm x 400mm x 500 deep foundations for steel post

m3 10

R

R+E1348:11353EINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15Mpa/19mm Concrete

Column posts concrete

m3 10

R

Erect new fence as per the specification (Betafence)

m 160

R

Gate 01 - As per gate schedule

No 2

R

TOTAL CARRIED FORWARD			R	-
TOTAL BROUGHT FORWARD			R	-
SECTION 3 : EXTERNAL WORKS				
BILL NO. 2 : CIVIL ENGINEERING (ROADS AND STORMWATER)				
PREAMBLES				
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.				
SITE CLEARANCE				
OPEN CHANNEL				
Clear and grub	m	50	R	-
<u>Remove and grub large trees and tree stumps of girth:</u>				
a) over 1.0m up to 2.0m (provisional)	No	1	R	-
b) over 2.0m up to 3.0m (provisional)	No	1	R	-
PARKING				
Clear and grub	m2	200	R	-
<u>Remove and grub large trees and tree stumps of girth:</u>				
a) over 1.0m up to 2.0m (provisional)	No	1	R	-
b) over 2.0m up to 3.0m (provisional)	No	1	R	-
BULK EARTHWORKS				
EXCAVATION				
<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus or unsuitable material for water pipes to a depth not exceeding 1.5 m.</u>				
Clear and strip site	HA	0,1	R	-
Remove topsoil to nominal depth 150 mm	HA	0,1	R	-
<u>Selected (G5) layers constructed to 150 mm thickness</u>				
(a) Compact to 95% of mod. AASHTO maximum density	m3	60	R	-
<u>Cut to spoil</u>				
(a) Soft excavation	m3	60	R	-
Overhaul	m3.km	60	R	-
ROADS & STORMWATER				
EARTHWORKS (ROADS, SUBGRADE)				
Treatment of roadbed				
<u>Roadbed preparation and compaction of material to</u>				
(i) minimum of 90% mod. AASHTO maximum density	m3	25	R	-
Selected layer (G7) compacted to 95% of mod. AASHTO maximum density	m3	25	R	-
Overhaul	m3.km	250	R	-
STORMWATER DRAINAGE				
<u>Alternative to Subclause 8.2.8</u>				
(a) 230mm Thick	m2	2	R	-
<u>Accessories</u>				
(b) Grid inlets including frames (600x600 light duty square dish or similar)	No	1	R	-
TOTAL CARRIED FORWARD			R	-

TOTAL BROUGHT FORWARD			R	-
SUB-BASE				
<u>Construct the subbase course/shoulders/gravel wearing course with material from commercial sources</u>				
<u>(a) Gravel sub-base (unstabilised gravel) compacted to</u>				
(i) minimum of 98% mod. AASHTO maximum density	m3	50	R	-
<u>Process (C4) subbase material by the following processes, as relevant, and use in the subbase</u>				
Stabilisation	m3	50	R	-
<u>Stabilising agent</u>				
Portland cement	t	8	R	-
<u>Prescribed density tests on filling</u>				
Tests to determine the degree of compaction, etc of ground or fill	No	5	R	-
Soil poison and or weed killers	m2	200	R	-
25mm river sand as bedding under block paving	m3	10	R	-
SEGMENTED PAVING				
Provision of Edge Restraints	Item	1	R	6 500,00
(b) 80 mm	m2	200	R	-
Cutting Units to Fit Edge Restraints	m	98	R	-
KERBING AND CHANNELLING				
<u>Concrete Kerbing</u>				
<u>(a) Fig. 4</u>				
(i) 330 mm	m	5	R	-
(ii) 1 000 mm	m	20	R	-
<u>Trimming of Excavations for Concrete-Lined Open Drains in</u>				
(a) Soft Material	m2	10	R	-
Sealed Joints in Concrete Lining of Open Drains	m	20	R	-
1 Sprayed Bitumen Emulsion Primer for Concrete-Lined Open Drains	m2	20	R	-
2 ANCILLARY ROADWORKS				
3 <u>Sign Faces with Painted or Galvanized (as Stated) Background, with Painted Symbols, Characters, Legend, and Borders, and with Signboards Constructed from</u>				
<u>(a) Aluminium sheet (2.0 mm thick), of area</u>				
4 (i) Up to 2 m2	m2	5	R	-
5 <u>Sign Supports</u>				
6 (a) Steel tubing (110 mm dia, 2.5 mm wall thickness)	t	0,1	R	-
<u>Excavation and Backfilling and Concreting for Sign Supports</u>				
7 (a) Backfill	m3	3	R	-
8 (b) Class 20/19 concrete	m3	3	R	-
9 <u>Setting out and premarking</u>				
Lines (excluding traffic island markings, characters,	km	0,3	R	-
TOTAL CARRIED TO SUMMARY SECTIONS			R	6 500,00

SECTION 4 : PROVISIONAL SUMS

BILL NO. 1 : PROVISIONAL SUMS

PREAMBLES

SUPPLEMENTARY PREAMBLES

General

All prime cost amount and provisional sum allowances are net and will be adjusted in accordance with the relevant building agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances. Prime cost amounts shall include for delivery to site of all articles concerned

Profit and general attendance upon selected subcontract works

The item "Allow for profit and general attendance" which follows each selected subcontract works, shall be deemed to allow for the contractor's profit if required and to cover all the contractor's costs incurred in providing free of charge to the selected subcontract works the duties of the contractor as described in clause 12.2 of the JBCC N/S Subcontract Agreement inclusive of the amendments thereto contained in the "Preliminaries"

PROVISIONAL SUMS

Allowance for Turnstiles

Provide an amount of R78 000.00 (Seventy Eight Thousand Rand) for turnstiles

Allow for profit

Allow for general attendance

Allowance for Exposing Existing Services

Provide an amount of R20 000.00 (Twenty Thousand Rand) for exposing existing services

A contingency amount has been allowed for expenditure as directed by the Electrical Engineer.

Allowance for Lightning Protection Installation

Allowance for Profit _____%

Allowance for Attendance _____%

Allowance for Boom Gate and Spikes Installation

Allowance for Profit _____%

Allowance for Attendance _____%

Allowance for Vehicle Recognition Installation

Allowance for Profit _____%

Allowance for Attendance _____%

Allowance for CCTV Installation

Allowance for Profit _____%

Allowance for Attendance _____%

Allowance for People Counting Installation

Allowance for Profit _____%

Allowance for Attendance _____%

Allowance for Biometric Installation

Allowance for Profit _____%

Allowance for Attendance _____%

Allowance for Connection to Security Gates

Allowance for Profit _____%

Allowance for Attendance _____%

TOTAL CARRIED TO SUMMARY SECTION

Item	1	R	-
%		R	-
%		R	-
Item	1	R	20 000,00
Sum	1	R	25 000,00
Item	1	R	30 000,00
		R	3 000,00
		R	3 000,00
Item	1	R	590 000,00
		R	59 000,00
		R	59 000,00
Item	1	R	170 000,00
		R	17 000,00
		R	17 000,00
Item	1	R	280 000,00
		R	28 000,00
		R	28 000,00
Item	1	R	70 000,00
		R	7 000,00
		R	7 000,00
Item	1	R	90 000,00
		R	9 000,00
		R	9 000,00
Item	1	R	200 000,00
		R	20 000,00
		R	20 000,00
		R	1 761 000,00

SECTION 5 : ENGINEERING SERVICES

BILL NO. 1 : MECHANICAL INSTALLATION - INTERNAL WET SERVICES

PREAMBLES

Refer to the attached Specifications for the HVAC Installation. The Tenderer must at all times read the Bills of Quantities in conjunction with the specification and drawings prior to pricing this section.

Verification of Drawings

Mark up on received engineer layouts for "as built" information.

Builder Work Drawings

Item 1 R -

Shop Drawings

Item 1 R -

O&M Manuals including RECORD Drawings

Provision for the drawings showing all Equipment, pipe routes, positions, type, component list etc. This cost is for the final STANDARDS compliance installation RECORD Drawings.

No 3 R -

Certificate of Compliance (Where applicable)

Provision for the Certificate of Compliance to be issued on completion of the project.

Electrical CoC

No 1 R -

Equipment CoC

No 1 R -

1st Years Maintenance

months 12 R -

TOTAL CARRIED FORWARD

R -

TOTAL BROUGHT FORWARD

R

HEAT PUMP SET

2,0 Kw constant air to water Hot Water Heat pump, with thermometers, controls, vacuum breaker, binder fittings etc.

Constant temperature range 60-65°C.Ex.

Solnet or similar approved

Supply & Delivery of Unit

No 1

R

Installation

No 1

R

Commissioning of Unit

No 1

R

HOT WATER STORAGE

Supply & install 150L geyser complete with all safeties & controls, insulation, supports etc, 3kw, 3ph, 400V heater element.

Kwikot or similar approved

Supply & Delivery of Unit

No 1

R

Installation

No 1

R

Commissioning of Unit

No 1

R

All pumps shall have run dry protection by means of a flow protection by means of a flow switch. Recirculation pumps shall be controlled by means of a programmable thermostatic electronic controller. Temperature to be set at 42DegC.

Admin Building

COPPER PIPING

Class O hard drawn copper tubes for domestic plumbing services joined together with soldered capillary fittings as (SABS466/1975)

28mm

m 6

R

22mm

m 4

R

15mm

m 12

R

Pipe Fittings i.e. Bends, Unions, Tee's etc

28mm - 90° Bend

m 8

R

22mm - 90° Bend

m 4

R

15mm - 90° Bend

m 24

R

28 - 22 - 28 - Tee

No 4

R

22 - 15 - 22 - Tee

No 2

R

15 - 15 - 15 - Tee

No 12

R

22mm - 15mm - Reducer

No 4

R

28mm - 15mm - Reducer

No 1

R

28mm - Union

m 2

R

22mm - Union

m 6

R

15mm - Union

m 8

R

HOT Water piping (Class 1 Copper)

22mm

m 5

R

15mm

m 14

R

Fittings i.e. Bends, Unions, Tee's etc

15mm - 90° Bend

No 12

R

22mm - 90° Bend

No 8

R

22mm - 15mm - Reducer

No 1

R

28mm - 22mm - Reducer

No 1

R

15 - 15 - 15 - Tee

No 6

R

22 - 22 - 22 - Tee

No 3

R

28 - 15 - 28 - Tee

No 2

R

HOT Water piping (Thermaflex 15mm INSULATION)

22mm

m 0

R

15mm

m 0

R

VALVES (Shut off)

Screw End Copper Alloy Ball Valves 50 - 150 mm to BS EN 13547

28mm

No 2

R

22mm

No 3

R

VALVES AND FLEXIHOSE SANITARYWARE

ITD Chrome Angle Valve 15 x 15mm

No 8

R

SS SABS Flexi Hose Braided Connector FXF 15x350mm

No 8

R

HYDROBOIL

Compact 7KW hydroboil

No

Supply & Delivery of Unit

No 1

R

Installation

No 1

R

Commissioning of Unit

No 1

R

TOTAL CARRIED FORWARD

R

TOTAL BROUGHT FORWARD**WASTE DRAINAGE**

Waste Pipe (WP) Drainage Pipe HDPE PE100 PN 6 - Sch 40. All costs to include pear type brackets, threaded rods, nuts, bolts, all sundries etc.

OD56 - Pipe + Surface mounted and chased in wall

m 14 R -

DRAINAGE FITTINGS - Pipe Fittings i.e. Bends, Unions, Tee's etc
Waste Pipe (WP) Drainage Pipe fittings HDPE PE100 PN 6 - Sch 40

OD56 - Cap

No 3 R -

OD56 - 56 Elbow 90 Deg with Cap

No 3 R -

OD50 - 50 Elbow 90 Deg

No 6 R -

OD50 - 50 Elbow 45 Deg

No 4 R -

OD50 -50 - P-Trap

No 4 R -

OD56 -50 - Union

No 10 R -

SEWER DRAINAGE

Sewer Pipe (SP) Drainage Pipe HDPE PE100 PN 6 - Sch 40. All costs to include pear type brackets, threaded rods, nuts, bolts, all sundries etc.

110mm HDPE Pipe +Surface mounted to external

m 15 R -

110mm 90 Deg Bend with Cap as IE per toilet outlet

No 2 R -

110mm 45 Deg Branch Connection

No 2 R -

110mm 45 Deg Bend

No 2 R -

110mm End Cap

No 2 R -

110mm - Union

No 5 R -

COPPER PIPING

Class O hard drawn copper tubes for domestic plumbing services joined together with soldered capillary fittings as (SABS466/1975)

22mm

m 4 R -

15mm

m 6 R -

Pipe Fittings i.e. Bends, Unions, Tee's etc

22mm - 90° Bend

m 2 R -

15mm - 90° Bend

m 4 R -

22 - 15 - 22 - Tee

No 2 R -

22mm -15mm - Reducer

No 1 R -

22mm - Union

No 1 R -

15mm - Union

No 4 R -

VALVES (Shut off)

Screw End Copper Alloy Ball Valves 50 -150 mm to BS EN 13547

22mm

No 1 R -

VALVES AND FLEXIHOSE SANITARYWARE

ITD Chrome Angle Valve 15 x 15mm

No 3 R -

SS SABS Flexi Hose Braided Connector FXF 15x350mm

No 3 R -

WASTE DRAINAGE

Waste Pipe (WP) Drainage Pipe HDPE PE100 PN 6 - Sch 40. All costs to include pear type brackets, threaded rods, nuts, bolts, all sundries etc.

OD56 - Pipe + Surface mounted and chased in wall

m 14 R -

DRAINAGE FITTINGS - Pipe Fittings i.e. Bends, Unions, Tee's etc
Waste Pipe (WP) Drainage Pipe fittings HDPE PE100 PN 6 - Sch 40

OD56 - Cap

No 2 R -

OD56 - 56 Elbow 90 Deg with Cap

No 2 R -

OD50 - 50 Elbow 90 Deg

No 1 R -

OD50 - 50 Elbow 45 Deg

No 1 R -

OD50 -50 - P-Trap

No 1 R -

OD56 -50 - Union

No 3 R -

SEWER DRAINAGE

Sewer Pipe (SP) Drainage Pipe HDPE PE100 PN 6 - Sch 40. All costs to include pear type brackets, threaded rods, nuts, bolts, all sundries etc.

110mm HDPE Pipe +Surface mounted to external

m 6 R -

110mm 90 Deg Bend with Cap as IE per toilet outlet

No 1 R -

110mm 45 Deg Branch Connection

No 1 R -

110mm 45 Deg Bend

No 1 R -

110mm End Cap

No 1 R -

110mm - Union

No 3 R -

TOTAL CARRIED TO FINAL SUMMARY SECTION

R -

SECTION 5 - ENGINEERING SERVICES

BILL NO. 02 - MECHANICAL INSTALLATION-HEATING VENTILATION AND AIR-CONDITIONING

PREAMBLES

Refer to the attached Specifications for the HVAC Installation. The Tenderer must at all times read the Bills of Quantities in conjunction with the specification and drawings prior to pricing this section.

Verification of Drawings

Mark up on received engineer layouts for "as built" information.

Builder Work Drawings

Item	1	R	-
------	---	---	---

Shop Drawings

Item	1	R	-
------	---	---	---

O&M Manuals including RECORD Drawings

Provision for the drawings showing all Equipment, pipe routes, positions, type, component list etc. This cost is for the final STANDARDS compliance installation RECORD Drawings.

No	3	R	-
----	---	---	---

1st Years Maintenance

months	12	R	-
--------	----	---	---

TOTAL CARRIED FORWARD

		R	-
--	--	---	---

TOTAL BROUGHT FORWARD

R

COPPER PIPING

Supply and Installation of copper pipes with bends, tees, elbows, reducers, socket, union etc, as per requirement, drawing and direction. Pipe work shall be complete with pipe hangers, vibration isolator brackets, supports etc. at an interval of 3m. All the pipe fittings otherwise specified shall be pre-molded threaded/welded end type. Cutting of pipe thread and sealing the thread with proper type of sealing compound shall be suitable to withstand a test pressure of 15 kg/cm².

CONDENSATE PIPING

Supply and Installation of condensate PVC pipes from the indoor unit with bends, tees, elbows, reducers, socket, union etc. Pipe work shall be complete with pipe brackets, supports etc. at an interval of 3m. All piping to be mounted on the external wall and PAINTED white to match the building colour. Must discharge with a 90 Deg bend.

OPEN PLAN OFFICE

AD-AC-01 - 3,6 kW Cooling / 4.0 kW Heating

Price must include for Delivery of units to site, Installation, Commissioning, intercabling, mounting accessories, PVC Trucking, Cable Trays etc. Refrigerant piping must be vacuum pumped for each unit.

Supply and Delivery of Unit

No 1

R

Installation

No 1

R

Commissioning of Unit

No 1

R

DUCTING

Galvanised ducting, insulated supply connection between louvre and fan, SABS spec for medium pressure ductwork. (Air passage sizes indicated on tender drawings for measurement confirmations).

Flexible collar Return and Supply 150mm deep

No 2

R

Supply MOS to 250x250mm (minimum 450mm in length) to suit the opening size at the air intake of AC unit.

No 1

R

Straight Supply 250x250mm

m 1,2

R

Spigot Ø 150mm

No 2

R

Stop End 250x250mm

No 1

R

Straight Supply Ø 150mm

m 2

R

Internally insulated return air plenum box (minimum 600mm in length), complete with 2x Ø150mm (RA) and Ø 200mm (FA) spigot

m 1

R

Acoustic Insulated flex connected to supply diffusers Ø150mm

m 3

R

Acoustic Insulated flex connected to return grilles Ø150mm

m 3

R

Acoustic Insulated flex connected to Fresh Air Ø200mm

m 1,5

R

Straight FA Supply Ø 200mm

No 2

R

Filter box 50mm allowance for Pleated filter Media with access for removal and cleaning

No 1

R

Transformation 300x300mm to Ø 200mm

No 1

R

THERMOSTAT

Wall Mounted thermostat on a draw box

No 1

R

COPPER PIPING

3/8"

m 9

R

5/8"

m 9

R

COPPER PIPING INSULATION

3/8"

m 9

R

5/8"

m 9

R

CONDENSATE PIPING

Condensate Pipe with fittings to main header

m 6

R

CABLING

Interconnecting cabling 4 m between indoor and outdoor unit

No 1

R

TICKET BOOTH

AD-AC-02 - 2,9 kW Cooling / 2,85 kW Heating

Price must include for Delivery of units to site, Installation, Commissioning, intercabling, mounting accessories, PVC Trucking, Cable Trays etc. Refrigerant piping must be vacuum pumped for each unit.

Supply and Delivery of Unit

No 1

R

Installation

No 1

R

Commissioning of Unit

No 1

R

THERMOSTAT

Wall Mounted thermostat on a draw box

No 1

R

COPPER PIPING

1/4"

m 14

R

1/2"

m 14

R

COPPER PIPING INSULATION

1/4"

m 14

R

1/2"

m 14

R

CONDENSATE PIPING

Condensate Pipe with fittings to main header

m 3

R

CABLING

Interconnecting cabling 4 m between indoor and outdoor unit

No 3

R

TOTAL CARRIED FORWARD

R

TOTAL BROUGHT FORWARD

R

ENTRANCE

AD-AC-03 - 2,9 kW Cooling / 2,85 kW Heating

Price must include for Delivery of units to site, Installation, Commissioning, intercabling, mounting accessories, PVC Trucking, Cable Trays etc. Refrigerant piping must be vacuum pumped for each unit.

Supply and Delivery of Unit
Installation
Commissioning of Unit

No 1
No 1
No 1

R
R
R

THERMOSTAT

Wall Mounted thermostat on a draw box

No R 1,00

R

COPPER PIPING

1/4"
1/2"

m 14
m 14

R
R

COPPER PIPING INSULATION

1/4"
1/2"

m 14
m 14

R
R

CONDENSATE PIPING

Condensate Pipe with fittings to main header 25mm
Condensate Pipe with fittings main header 32mm

m 3
m 4

R
R

CABLING

Interconnecting cabling 4 m between indoor and outdoor unit

No 3

R

FRESH AIR

Straight FA Supply Ø 200mm
Filter box 50mm allowance for Pleated filter Media with access for removal and cleaning
Transformation 300x300mm to Ø 200mm
Straight FA Spigot Ø 80mm
Acoustic Insulated flex connected to supply diffusers Ø80mm

No 8
No 1
No 1
2
m 1,2

R
R
R
R
R

MANUAL BLADE DAMPERS

MBD Ø 200mm
MBD Ø 80mm

No 1
No 2

R
R

CABLE TRAYS

CABLE TRAYS - Wire Mesh 100mm

m 24

R

SECURITY ROOM 1

AD-AC-02 - 2,9 kW Cooling / 2,85 kW Heating

Price must include for Delivery of units to site, Installation, Commissioning, intercabling, mounting accessories, PVC Trucking, Cable Trays etc. Refrigerant piping must be vacuum pumped for each unit.

Supply and Delivery of Unit
Installation
Commissioning of Unit

No 1
No 1
No 1

R
R
R

THERMOSTAT

Wall Mounted thermostat on a draw box

No 1

R

COPPER PIPING

1/4"
1/2"

m 4
m 4

R
R

COPPER PIPING INSULATION

1/4"
1/2"

m 4
m 4

R
R

CONDENSATE PIPING

Condensate Pipe with fittings to main header

m 6

R

CABLING

Interconnecting cabling 4 m between indoor and outdoor unit

No 2

R

SECURITY ROOM 2

AD-AC-02 - 2,9 kW Cooling / 2,85 kW Heating

Price must include for Delivery of units to site, Installation, Commissioning, intercabling, mounting accessories, PVC Trucking, Cable Trays etc. Refrigerant piping must be vacuum pumped for each unit.

Supply and Delivery of Unit
Installation
Commissioning of Unit

No 1
No 1
No 1

R
R
R

TOTAL CARRIED FORWARD

R

TOTAL BROUGHT FORWARD

THERMOSTAT

Wall Mounted thermostat on a draw box

No 1

R

R

COPPER PIPING

1/4"

m 8

R

1/2"

m 8

R

COPPER PIPING INSULATION

1/4"

m 8

R

1/2"

m 8

R

CONDENSATE PIPING

Condensate Pipe with fittings to main header

m 9

R

CABLING

Interconnecting cabling 4 m between indoor and outdoor unit

No 2

R

TOTAL CARRIED TO FINAL SUMMARY

R

SECTION 5 - ENGINEERING SERVICES

BILL NO. 03 - ELECTRICAL WORK

PREAMBLES

Refer to the attached Specifications for the Electrical Installation. The Tenderer must at all times read the Bills of Quantities in conjunction with the specification and drawings prior to pricing this section.

Guarantee and Maintenance:

Guarantee and maintenance for the complete installation of Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS after date of completion and handover.

No. 1 R -

Testing:

Allow for testing, balancing and commissioning the whole of the electrical installation as laid down in the specification and for re-testing as may be required after the making good of all defective work to the satisfaction of the Electrical Engineer.

No. 1 R -

As-Built Drawings:

Provision for the drawings showing all site cable routes, conduit routes, draw boxes and positions of outlets, etc.

No. 1 R -

Certificate of Compliance:

Provision for the Certificate of Compliance to be issued on completion of the project.

No. 1 R -

Earthing and bonding:

Allow for earthing and bonding as required by the applicable regulations and the Engineers requirements.

No. 1 R -

Labelling and Marking:

Allow for marking and labelling of all equipment, cables, plugs, light switches etc.

No. 1 R -

Coordination

Allow for general coordination with the sub-contractors. Electrical contractor to ensure that all provisions required by the sub-contractors are allowed for to avoid remedial or corrective work in the later stages of the project.

No. 1 R -

TOTAL CARRIED FORWARD

R -

TOTAL BROUGHT FORWARD			R	-
Excavations:				
Excavations other than bulk in soft excavation not exceeding 2m deep for:				
Allowance is to be made for the installation of cable markers and warning sheets				
In trenches for cables and sleeves	m ³	50	R	-
Filling obtained from excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density				
Backfilling of trenches	m ³	20	R	-
Risk of collapse of excavations other than bulk				
Sides of trenches and hole excavations not exceeding 1.5m deep	m ³	15	R	-
Cable Sleeves:				
Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.				
110mm Ø Rigid Cable Sleeve	m	150	R	-
Distribution Boards:				
Supply, installation and commissioning of Distribution Boards, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).				
Main DB-A	No.	1	R	-
Sub-DB-B	No.	1	R	-
Kiosk	No.	1	R	-
Cables:				
Supply, delivery and laying of PVC/SWA/PVC ECC copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts, wastage, couplings, bending, jointing sockets and tees.				
25mm ² 2 core PVC/SWA/PVC ECC Cable	m	100	R	-
16mm ² 2 core PVC/SWA/PVC ECC Cable	m	200	R	-
6mm ² 3 core PVC/SWA/PVC ECC Cable	m	400	R	-
Cable Termination:				
Including the supply and fitting of Prately Cable gland, shroud, making off the cable and fitting the gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.				
25mm ² 2 core PVC/SWA/PVC ECC Cable	No.	4	R	-
16mm ² 2 core PVC/SWA/PVC ECC Cable	No.	4	R	-
6mm ² 3 core PVC/SWA/PVC ECC Cable	No.	70	R	-
Cable Markers:				
Supply and install of Cable marker tape layed side by side in trenches, 300mm above cable sleeve.				
PVC warning marking tape	m	20	R	-
Cable Tray:				
Supply and installation of the following Perforated Metal Cable Trays including splice sets as per Cabstrut:				
200mm Heavy Duty Cable Tray	m	2	R	-
TOTAL CARRIED FORWARD			R	-

TOTAL BROUGHT FORWARD4mm² PVC Conductors

m 3000

R

Earth Conductors:

Supply and drawing into conduit PVC insulated earth conductors, excluding any connections

2.5mm² Conductors

m 2700

R

Light Switches/ Occupancy Sensors:

Supply, fitting and electrical connection of a flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.

16A 1 Lever 1 Way

No. 13

R

16A 1 Lever 2 Way

No. 2

R

Occupancy Sensors (Rubicon)

No. 13

R

Socket Outlets:Supply, fitting and electrical connection of flush or surface mounted switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.

16A Double SSO c/w coverplate

No. 3

R

16A SSO + Euro c/w coverplate

No. 9

R

5A 3 Pin unswitched socket outlet in round box.

No. 62

R

Daylight Switch:

Supply and installation of approved daylight switch.

Royce-Thompson Daylight Switch

No. 3

R

Powerskirting:

Supply & Installation of powerskirting equipment as specified. As per P801 Cabstrut.

Powerskirting

No. 27

R

Elbows Internal/External

No. 6

R

End Caps

No. 11

R

Body Joint

No. 11

R

Cover Joint

No. 11

R

16A SSO's c/w cover on Powerskirting Crabtree

No. 8

R

16A SSO's Dedicated c/w cover on Powerskirting Crabtree

No. 8

R

16A Euro c/w cover on Powerskirting Crabtree

No. 8

R

RJ11 Connector with cradle/cover and mod blank

No. 8

R

RJ45 Connector with cradle/cover and mod blank

No. 8

R

Isolators:Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.

10A SP Flush Isolator (Extractor Fans in Toilets)

No. 5

R

20A SP Flush Isolator (AC)

No. 5

R

45A SP Flush Isolator (Hand Dryer)

No. 4

R

45A SP Flush Isolator (Hydro-boil)

No. 1

R

TOTAL CARRIED FORWARD				R
TOTAL BROUGHT FORWARD				R
Appliance Connection:				
Electrical connection of appliances. Equipment supplied and installed by others.				
Extractor Fans	No.	3		R
Airconditioners, single phase	No.	3		R
Hydroboil	No.	3		R
Handryer	No.	4		R
Draw Wire:				
0,6mm diameter galvanised draw wires drawn into wireways	m	400		R
HVAC Installation:				
Supply and installation of the following items for the HVAC Installation.				
25mm PVC Conduit	m	150		R
25mm PVC Conduit end	No.	6		R
25mm PVC Conduit box	No.	6		R
Telephone Installation:				
Supply and installation of the following items for the Telephone Installation.				
25mm PVC Conduit	m	20		R
25mm PVC Conduit end	No.	2		R
25mm PVC Conduit box	No.	2		R
Blank Covers	No.	2		R
Data Installation:				
Supply and installation of the following items for the Data Installation.				
25mm PVC Conduit	m	20		R
25mm PVC Conduit end	No.	6		R
25mm PVC Conduit box	No.	6		R
Lightning Protection & Earthing Installation:				
Supply and installation of the following items for the Lightning Protection & Earthing Installation.				
25mm PVC Conduit	m	100		R
25mm PVC Conduit end	No.	5		R
25mm PVC Conduit box and end	No.	5		R
Handryer & Hydroboil Installation:				
Supply and installation of the following items for the Handryer and Hydroboil Installation.				
25mm PVC Conduit	m	50		R
25mm PVC Conduit end	No.	7		R
25mm PVC Conduit box	No.	7		R
Luminaires				
Installation of the following luminaires, complete with lamps as specified. Please refer to sec E of the specification for more details on the luminaires.				
Type A1 - RUBICON - SAXA LED TRIPROOF 1.5MIP65 54W-4000K 0.6M CABLE DUAL 120LM/W -	No.	22		R
Type AIE - RUBICON - SAXA LED TRIPROOF 1.5MIP65 54W-4000K 0.6M CABLE DUAL 120LM/W WITH 1HOUR BATTERY PACK	No.	10		R
Type B1 - RUBICON - THEIA LED RECESSEDPANEL 30W 600X600 4000K FF C/W CS	No.	20		R
Type B1E - THEIA LED RECESSEDPANEL 30W 600X600 4000K FF C/W CS WITH 1HOUR BATTERY PACK	No.	10		R
Type D1 - AEGEON LED DL 20W 4000K 120LM/W- RECESSED + CS	No.	6		R

TOTAL CARRIED FORWARD

TOTAL BROUGHT FORWARD

Type D1E - AEGEON LED DL 20W 4000K 120LM/W- RECESSED + CS WITH 1HOUR BATTERY PACK

No. 5

R

Type J1 - SATURN RND LED BULKHEAD-BLACK-15W- 4000K-IP65

No. 7

R

Type J1E - SATURN RND LED BULKHEAD-BLACK-15W- 4000K-IP65 WITH 1HOUR BATTERY PACK

No. 4

R

Type P1 - LORO POST TOP-42W LED-4000K-INCLUDING 6M MT H GALVANIZED POLE

No. 10

R

R

R

TOTAL CARRIED TO FINAL SUMMARY

R

SECTION SUMMARY

BILL NO. 2 EARTHWORKS (PROVISIONAL)

R

BILL NO. 3 :CONCRETE, FORMWORK AND REINFORCEMENT

R

BILL NO. 4 : MASONRY

R

BILL NO. 5 : WATERPROOFING

R

BILL NO. 6 : ROOF COVERING

R

BILL NO. 7 : CARPENTRY AND JOINERY, ETC.

R

BILL NO. 8 : CEILINGS, PARTITIONS AND ACCESS FLOORING

R

BILL NO. 9 : FLOOR COVERINGS, WALL LININGS, ETC

R

BILL NO. 10 : BATHROOM FITTINGS

R

BILL NO. 11 : METALWORKS

R

BILL NO. 12 : PLASTERING

R

BILL NO. 13 : GLAZING

R

BILL NO. 14 : PAINTWORK

R

BILL NO.15 STRUCTURAL STEEL WORKS

R

EXTERNAL WORKS

R 6 500,00

PROVISIONAL SUMS

R 1 761 000,00

TOTAL CARRIED FORWARD TO FINAL SUMMARY

R 1 767 500,00

FREEDOM PARK SECURITY GATE SUMMARY PAGE

ITEM	Final Summary	Totals
1	Preliminary and Generals	R0,00
2	Main works	R1 767 500,00
	Mechanical - Internal Wet Services	R0,00
	Mechanical - HVAC	R0,00
	Electrical and Electronics	R0,00
	Sub-Total 1	R1 767 500,00
4	Contingency @ 10%	R0,00
5	Sub -Total 2	R1 767 500,00
6	VAT @ 15%	R265 125,00
7	Carried to Form of Tender	R2 032 625,00