Item No			Quantity	Rate	Amount
	SECTION	<u>ON 1</u>			
	BILL N	<u>10 1</u>			
	PRELII	MINARIES			
		EMENTARY NOTES BEFORE PRICING EBILLS OF QUANTITIES			
	1.	DEFINITION			
		The terms "Architect", "Quantity Surveyor", "Engineer" or "Agent" in the documentation mean the authorized representative of the Taletso Tvet College			
	2.	SITE			
		The site is situated on the Taletso Tvet College, Carrol Street, Retiefs Park, Lichtenburg			
	3.	DRAWINGS			
		These Bills of Quantities are based on the accompanied drawings as prepared by the Taletso Tvet College, Lichtenburg			
	4.	PERIOD FOR PAYMENT			
		The period for payment is 30 days after the date on the applicable invoice, as the case may be			
	5.	METHOD OF MEASUREMENT			
		Standard System Except where otherwise started these bills of quantities have been prepared in accordance with the Sixth Edition 2nd Revision (as amended March 2013) of the Standard System of Measuring Builder's Wok issued by the Association of South African Quantity Surveyors and hereinafter termed "the Standard System"			
		Qualifications Notwithstanding the provisions of the Standard System the following the following amendments and/or definitions shall apply in respect of these bills of quantities			
		Carried Forward		R	
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	Brought Forward	R	
	Generally Wherever the words "shall be included in the description" in these bills of quantities incorporate such inclusions and statements		
6.	DECIMAL POINTS AND THOUSAND SEPARATORS		
	Please take good care of the fact that a decimal is indicated by a point (.) and a comma as a thousand separator (i.e. 1,342 = one thousand three hundred and forty two)		
7.	GENERAL		
	Works take place according to University hours, in other words from 07:30 to 16:30 for the full 5 days per week and any non-working hours must be scheduled in advance with the project manager and only on condition that the program is up to date ACCORDING TO THE PROJECT MANAGER'S DISCRETION		
	No work will be allowed on Sundays		
	Behaviour of staff: No interference or comments towards any student or any other person on the campus will be tolerated		
	The Contractor is fully responsible to remove all building rubble and waste from the site		
i)	The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 6.2 May 2018, and other contract documents that together form the contract between the employer and contractor		
ii)	The preliminaries are to be the JBCC Series 2000 code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2008 edition and shall be deemed to be incorporated herein		
iii)	Tenderers are referred to the above-mentioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary		
iv)	Where standard clauses or alternatives are not		
	Carried Forward	R	
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l	Brought Forward	I	R	 	
v) vi)	entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable") If alternative A as set out in clause B 10.3 hereinafter is to be used for the adjustment for the preliminaries each item priced is to allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time				
PRE	AMBLES FOR TRADES				
the shall quar desc	Model Preambles for Trades 2008 as published by Association of South African Quantity Surveyors be deemed to be incorporated in these bills of attities and no claims arising from brevity of ription of items fully described in the said Model mbles will be entertained				
incor requi prea	plementary preambles and/or specifications are porated in these bills of quantities to satisfy the irements of this project. Such supplementary mbles and/or specifications shall take precedence the provisions of the Model Preambles				
bills all o giver	contractor's prices for all items throughout these of quantities must take account of and include for f the obligations, requirements and specifications in the Model Preambles and in any supplementary mbles and/or specifications				
	Carried Forward		R		—
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	PRICING OF PRELIMINARIES			
	Should the contractor select Alternative A in terms of subclause B10.3 in the preliminaries and indicated on the form of tender [2.5] for the purpose of these adjustment of preliminaries , the amounts entered into the amount column in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)			
	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	Definition (A1)			
	Definition and interpretation (1)			
	The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (Sixth Edition, Second Revision, as amended March 2013) published by the Association of South African Quantity Surveyors [1.1]			
	FT			
1	Objectives and Preparation (A2 - A14)			
	Offer, acceptance and performance (2)			
	T:	Item		
2	Documents (3) F:V: T:			
		Item		
3	Design responsibility (4)			
	F: T:			
		Item		
	Carried Forward		R	
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	Brought Forward		R	
4	Employer's agents (5)			
	F:V:			
	T:	Item		
5	Contractor's site representative (6)			
	F:V:			
	T:	Item		
6	Compliance with Law and regulations (7)			
	Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the latest construction regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Annexure A for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the Act and the regulations and provisions of the aforementioned health and safety specification [7.1] A formal Risk Analysis as well as health and safety plan must be submitted as soon as possible, but not later than seven (7) days after appointment F:			
	1	Item		
	Health and Safety Requirements			
	Should the contractors identify any other items that they need to price to comply, they should allow for such items in the space allowed below. The Employer will not accommodate any additional claims due to this.			
	Carried Forward		R	
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		Brought Forward		R	
7	Requirem as Clause	ents regarding the Health and Safety Plan/file 7.0	Item		
8	Full time S	Safety Officer as per Clause 7.0	Item		
9		ents regarding Internal OHS audits and plants per Clause 7.0	Item		
10	Requirements regarding Health and Safety Training as per Clause 7.0		Item		
	Requirements regarding Health and Safety Site requirements				
11	a. Admini	stration Clause	Item		
12	b. H	ealth and safety programme Clause	Item		
13		ersonal protective equipment for employees nd visitors Clause 7.0	Item		
14	d. P	rovision of employees site facilities Clause	Item		
15	e. O	PHS Signage Clause	Item		
16	f. O	HS Notice Board Clause 7.0	Item		
17	g. O	OHS Training Clause 7.0	Item		
18	h. F	irst aid station and firefighting equipment			
	С	clause 7.0	Item		
19	i. N	ledical Certificates of fitness Clause	Item		
20		ents regarding Project Risk Assessment and nent Clause.7.0	Item		
21		ents on site listed hazards baseline risk ent as Clause7.0	Item		
		Carried Forward		R	
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	Other items identified by the contractor (describe), additional financial provision, if any, for the requirements of the Occupational Health and Safety not covered in the above - please specify per line			
22	Works risk (8)			
	F: T:			
		Item		1
23	Indemnities (9)			
	F: T:			
		Item		1
24	General Insurances (10)			
	F: T:	Item		
25	Special Insurances (11)			1
	F: V:	lka ma		1
	T:	Item		
26	Effecting Insurances (12)			
	F: T:	Item		1
	No Clause (13)			1
27	Security (14)			1
	F: T:	Item		
	Execution (A15 - A23)			
28	Preparation for and execution of the works (15)			1
	F: V:			1
	T:	Item		1
				1
	Carried Forward		R	—— I
				1
	Section No. 1 Bill No. 1 Proliminarios			1
	Preliminaries			1

	Brought Forward		R	
29	Access to the Woks (16)			
	F: T:	Item		
30	Contract instructions (17)			
	F: V: T:	Item		
31	Setting out of the works (18)			
	F:V:			
	T:	Item		
32	Assignment (19)			
	F: V:			
	T:	Item		
33	Nominated subcontractors (20)			
	F: T:	Item		
34	Selected subcontractors (21)			
	F: T:	Item		
35	Employer's direct contractors (22)			
	F: T:	Item		
36	Contractor's domestic subcontractors (23)			
	F: T:	Item		
	Completion (A24 - A30)			
37	Practical completion (24)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
38	Woks completion (25)			
	F: T:	Item		
39	Final completion (26)			
	F: T:	Item		
40	Latent defects liability period (27)			
	F: T:	Item		
41	Sectional completion (28)			
	F: T:	Item		
42	Revision of date of practical completion (29)	пеш		
	The removal and replacement of any materials and/or workmanship which do not conform goods to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [29.3]			
	F: T:			
		Item		
43	Penalty for non-completion (30)			
	F: T:	Item		
	Payment (A31 - A35)			
44	Interim payment (31)			
	Carried Forward		R	_
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	Brought Forward		R	1
45	Notwithstanding this or any other clause, material and goods stored off site shall not be included in the amount authorised for payment			
	Sub-clause 31.9 shall be amended as follows: Delete reference to "seven (7) calendar days of the date for issue of payment certificate" and insert "twenty one (21) calender days of the date for issue of tax invoice"			
	The contractor shall attach a tax invoice as the Value Added Tax legislation to each payment certificate when presenting the certificate to the employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the payment certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met			
	F: T:			1
	T	Item		1
46	Adjustment to the contract value (32)			1
	Where prices are submitted by the contractor or n/s subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate , there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion , it shall be in writing			
	F: T:	lt a ma		Ì
		Item		
47	Recovery of expense and loss (33)			Ì
	F: T:	14		Ì
		Item		
				1
	Carried Forward		R	1
	Section No. 1 Bill No. 1			1
	Preliminaries			1
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48	Final account and final payment (34)			1
	F: T:	Item		
49	Payment to other parties (35)			ı
	F: T:	Item		
50	Cancellation (A36-A39)			1
	Cancellation by employer - contractor's default (36)			1
	<u>F</u> :V:			ı
	T:	Item		ı
51	Cancellation by employer - loss and damage (37)			ı
	F:V:			ı
	T:	Item		ı
52	Cancellation by contractor - employers default (38)			1
	F:V: T:	Item		1
53	Cancellation - cessation of the works (39)	itein		ı
33	F: V:			ı
	T:	Item		ı
54	Dispute (A40)			1
	Settlement of disputes (40)			1
	F:V:			1
	T:	Item		1
				1
				1
	Carried Forward		R	
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			Brought Forward		R	
55	Subst	itute Provisions (A41)				
	State	clauses (clause 41)				
		V:		Item		
56	THE S	CHEDULE				
	contaiı	ation necessary for con ned in the schedule whi purposes is given here				
	Pre-te	nder information (clause	e 42)			
		V:				
				Item		
	<u>42.1</u>	CONTRACTING AND	OTHER PARTIES			
	1.1	Employer:	Taletso Tvet College			
	Tvet	Postal address:	Lichtenburg Taletso			
		Code: Tel:	College Carroll Street, Retief Park LICHTENBURG 2740 (018) 384 0555			
		E-mail:				
		sehole.a@taletso.edu	1 <u>.za</u>			
		Physical address: Tvet Code: VAT registration no:	Lichtenburg Taletso College Carroll Street, RetiefS Park, LICHTENBURG 2740			
	Bill No	n No. 1 . 1 inaries	Carried Forward		R	
		mancs				

		Brought Forward	R
1.1 Agent	Agents service:	Engineer and Principal	
[5.2]	Agent(2):	CALLIPER CONSULTING ENGINEERS (PTY) LTD	
	Postal address:	P.O.Box 542 Lonehill	
	Code:	2062	
	Tel:	(011) 326 1680	
	Email: info@g	groupengineering.co.za	
12.2	CONTRACT DETAILS		
42.2.1	Works Description: Refer to conditions o for full description of	f tender and drawings work	
42.2.2	Site Description: Refer to conditions o for full description of	f tender and drawings site	
42.2.3	own contractors of construction or installa	y direct contractors: s the right to employ his or sub-contractors for ation of certain items not n these bills of quantities	
42.2.4	This agreement is for a No	a government contract:	
12.2.5	Date on which possess intended to be given:T		
42.2.6	Period for the commenthe contractor takes post working days	cement of the works after essession of the site	
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2.2.7	For the works as a whole:		
	The contract period for the completion and delivery of the works shall be 6 months after site hand-over, excluding builder's holiday		
	Penalty amount: R4500.00 per calendar day		
12.2.8	Completion in sections will be required N/a		
42.2.9	The law applicable to this agreement shall be that of RSA		
12.3	INSURANCES		
42.3.1	Contract works insurance to be effected by: Contractor:		
	For the sum of (Contract Sum +10%) With a deduction of R5000.00		
42.3.2	Supplementary insurance is required: Yes-Sasria		
42.3.3	Public liability insurance to be effected by: Contractor: For the sum of R5,000,000.00		
	With a deductible of R5,000.00		
2.4	DOCUMENTS		
12.4.1	Waiver of contractors lien or right of continuing possession is required: No		
42.4.2	Number of construction document copies to be supplied to the contractor free of charge: 2		
42.4.3	Bills of Quantities drawn up in accordance with:		
	Standard System of Measuring Builders Work:Seventh Edition (2015)		
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	Brought Forward		R		
	42.4.4 Number of days for submission of priced documents: Together with tender			1	
	42.4.5 JBCC Engineering General Conditions are to be included in the contract documents: No				
	42.4.6 The value is to be adjusted using CPAP:				
	(i) Contraction period less than 12 months - No CPAP				
	(ii) Construction period exceeding 12 months - CPAP on the outstanding amounts after 12months Base date: N/A				
	42.4.7 Details of changes made to the provision of JBCC standard documentation: *Any changes are indicated against the relevant items in this section *Refer to clause 31 for changes to payment clauses				
	SECTION B: PRELIMINARIES				
	Definitions and Interpretation (B1)				
57	Definitions and interpretation (B1.1 - B1.4.6)				
	F: T:	Item			
	Documents (B2)				
58	Checking of documents (B2.1)				
	F: T:	Item			
59	Provisional bills of quantities (B2.2)				
	F: T:				
	Carried Forward		R		
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Availability of construction documentation (B2.3)				
Availability of constituction documentation (B2.3)				Ì
F: T:	Item			
Interests of agents (B2.4)				Ì
F: T:	Item			
Priced documents (B2.5)				1
F: T:	Item			
Tender submission (B2.6) Please note that the bill of quantities completed in full should be submitted with the tender				
F: T:	Item			
Inspection of adjoining properties				1
F: T:	Item			ľ
The site (B3)				Ì
Defined works area (B3.1)				1
F: T:	Item			
Geotechnical investigation (B3.2)				İ
F: T:	Item			
Carried Forward		R		
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	T:	T:	T	T:

	Brought Forward		R	
67	Inspection of the site (B3.3)			
	No claims for extras will be entertained as a result of neglect from the contractor not adhering to this clause			
	F: T:	Item		
68	Existing premises occupied (B3.4)			
	F: T:	Item		
69	Previous work - dimensional accuracy(B3.5)			
	F: T:	Item		
70	Previous work - defects (B3.6)			
	F: T:	Item		
71	Services - known (B3.7)			
	F: T:	Item		
72	Services - unknown (B3.8)			
	F: T:	Item		
73	Protection of trees,etc. (B3.9)			
	F: T:	Item		
74	Articles of value (B3.10)			
	F: T:	Item		
	Carried Forward		R	<u> </u>
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	Brought Forward		R		
75	Inspection of adjoining properties, etc. (B3.11)				
	F: T:	Item			
	Management of contract (B4)				
76	Management of the works (B4.1)				
	F: T:	Item			
77	Programme of the works (B4.2)				
	F: T:	Item			
78	Progress meetings (B4.3)				
	F: T:	Item			
79	Technical meetings (B4.4)				
	F: T:	Item			
80	Labour and Plant records (B4.5)				
	F: T:	Item			
	Samples, shop drawings and manufacturer's instructions (B5)				
81	Samples of materials (B5.1)				
	F: T:	Item			
82	Workmanship samples (B5.2)				
	F: T:	Item			
	Carried Forward		R		
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	Brought Forward		R		Ì
83	Shop drawings (B5.3)			1	ı
	F: V: T:	Item			
84	Compliance with manufacturer's instructions (B5.4)				ı
	F: T:	Item			
	Temporary works and plant (B6)				1
85	Deposits and fees (B6.1)				1
	F: T:	Item			ĺ
86	Enclosure of the works (B6.2)				1
	F: T:	Item			ĺ
87	Advertising (B6.3)				ı
	F: T:	Item			ĺ
88	Plant, equipment, sheds and offices (B6.4)				1
	F: T:	Item			
89	Main notice board (B6.5)				ı
	F: T:	Item			ĺ
90	Subcontractors' notice board (B6.6)				1
	F: T:	Item			
	Temporary services (B7)				İ
91	Location (B7.1)				l
	F: T:	Item			ſ
	Carried Forward		R		
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	Brought Forward		R	
92	Water (B7.2)			
	F: T:	Item		
93	Electricity (B7.3)			
	F: V: T:	Item		
94	Telecommunication facilities (B7.4)			
	F: T:	Item		
95	Ablution facilities (B7.5)			
	F: T:	Item		
	Prime cost amounts (B8)			
96	Responsibility for prime cost amounts (B8.1)			
	Attendance on N/S subcontractors (B9)			
97	General attendance (B9.1)			
	F: T:	Item		
98	Special attendance (B9.2)			
99	Commissioning - Fuel, water and power (B9.3)			
	Financial aspects (B10)			
100	Statutory taxes, duties and levies (B10.1)			
	F: T:	Item		
101	Payment of preliminaries (B10.2)			
	F: T:	Item		
	Carried Forward		R	
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	Brought Forward		R	Ì
102	Adjustment of preliminaries (B10.3)			
	F: T:	Item		
103	Payment certificate cash flow (B10.4)			1
	F:V:	Item		
	General (B11)			1
104	Protection of the works (B11.1)			
	F: V: T:	Item		
105	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F: T:	Item		
106	Security of the works (B11.3)]
	F: T:	Item		
107	Notice before covering work (B11.4)			
	F: T:	Item		
108	Disturbance (B11.5)			
	F: T:	Item		
	Environmental disturbance (B11.6)			1
	F: T:	Item		
109	Works cleaning and clearing (B11.7)			1
	F: T:	Item		
	Carried Forward		R	<u></u>
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	Brought Forward		R	Ì
110	Vermin (B11.8)			1
	F: T:	Item		
111	Overhand work (B11.9)			1
	F: T:	Item		
112	Instruction manuals and guaranteed (B11.10)			
	F:V:			ı
	T:	Item		
113	As built information (B11.11)			
	F: T:	Item		
114	Tenant Installation (B11.12)]
	F: V: T:	Item		
	Schedule of variables (B12)			
115	Pre-tender information (B12.1)			
	F: T:			
	This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries	ltem		
	12.1.1 Provisional bills of quantities [B2.2]			1
	The quantities are provisional Yes			1
	12.1.2 Availability of construction information [B2.3]			1
	Construction documentation is complete: No			
	Carried Forward		R	
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12.1.3	Interest of agents (B2.4)		
12.1.4	Defined work area (B3.1)		
	The contractor shall not extend his operations beyond the site boundaries as shown on the site plan and pointed out on the site inspection		
12.1.5	Geotechnical investigation (B3.2) : N/A		
12.1.6	Existing premises occupied (B3.4) The site is situated at the North-West University and no work will be allowed on Sundays. Conditions to use adjacent sites/buildings should be strictly adhered to		
12.1.7	Previous work - dimensional accuracy (B3.5) Details: No specific information		
12.1.8	Previous work - defects (B3.6) Details: No specific information		
12.1.9	Services - known (B3.7)		
	Details: Care should be taken not to remove or damage any services and to notify the Principal Agent immediately. Existing services are shown on drawings as far as possible		
12.1.10	Protection of the works (B3.9)		
	Care should be taken not to damage any trees		
12.1.1	Inspection of adjoining properties (B3.11)		
	Care should be taken not to damage any adjoining properties and liaison between the contractor and the Representative / Agent is of paramount importance		
12.1.1	1 Services - known [4.7]		
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12.1.12 Enclosure of works [6.2] Specific requirements: The contractor shall provide, erect, alter as necessary, maintain, remove and make good on completion of the works suitable hoarding, complete safety screens, barriers, etc as necessary for the enclosure of the works and the protection of the public, all to the satisfaction of the Representative and the Local Authority and the Employer
12.1.13 Offices [6.4.3] Specific requirements: N/A
12.1.15 Subcontractors notice board (B6.6) A notice board is required : No
12.1.16 Water [7.2] Option A (by contractor) Yes
Option B (by employer - free of charge) No
Option C (by employer - metered) No
12.1.17 Electricity [7.4] Option A (by contractor) Yes
Option B (by employer - free of charge) No
Option C (by employer - metered) No
12.1.18 Ablution facilities [7.5]
Option A (by contractor) Yes
Option B (by employer) No
12.1.20 Protection of existing/sectionally occupied works (B11.2)
Protection are required: Yes
12.1.22 Protection of the works (B11.1): No specific requirements
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	12.1.23 Disturbance [11.5] Specific requirements: No specific requirements			
	All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever			
	12.1.24 Environmental disturbance (B11.6) No specific requirements			
	SECTION C: SPECIFIC PRELIMINARIES			
	PROPRIETARY BRANDED PRODUCTS			
	The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufactures' instruction after consultation with the manufacturer's authorised representative			
	F: T:	Item		
116	NON CESSION OF MONIES			
	The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract			
	F: V: T:	Item		
117	SITE INSTRUCTIONS			
	Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor			
	F: V: T:	Item		
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	Brought Forward		R		
118	LABOUR RECORD				
	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 subcontractors on the works each day				
	F: T:	Item			
119	PLANT RECORD				
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works				
	F T:	lt a ma			
		Item			
	BUDGETARY ALLOWANCE FOR CLO (COMMUNITY LIAISING OFFICER)				
120	Allow the sum of R30 000 (Thirty Thousand Rand) for CLO (Community Liaising Officer)	Item		30,000.	00
121	Allow for profit	Item			
122	Allow for attendance	Item			
	Carried to Final Summary		R		
	Section No. 1				
	Bill No. 1 Preliminaries				

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 1				
	FOUNDATIONS (PROVISIONAL)				
	PREAMBLES:				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	ALTERATIONS, ETC				
	Taking out/off and remove existing fence				
1	Fence 2100 mm high and make good to fix a new gate	m	5		
2	Gate 3000 x 2100 high gate	No	1		
	Breaking up brick wall including cutting off, removing reinforcement etc making good face brick both				
3	One brickwall	m2	11		
	Taking out/off and remove existing concrete column				
4	300mm Diameter column 2100mm high	No	2		
5	300mm Diameter column 1500mm high	No	2		
	EXCAVATIONS IN TRENCHES AND HOLES				
6	Trenches for strip footings	m3	26		
7	Bases	m3	48		
	Extra over excavations in earth to trenches and holes for				
8	Excavation in soft rock	m3	7		
	Carried Forward			R	
	Section No. 2 Bill No. 1 Earthworks				

	Brought Forward	ĺ		R	
9	Excavation in hard rock	m3	4		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
10	Extra over all excavations for loading and carting away surplus excavated material from holes, trenches, etc. to a suitable dumping ground to be located by the contractor	m3	30		
	Carried Forward			R	
	Section No. 2 Bill No. 1 Earthworks				
					l

	Brought Forward			R	
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
11	Trench and holes	m2	224		
	KEEPING EXCAVATIONS FREE FROM WATER				
12	Allow for keeping excavations free from water		Item		
	FILLING, ETC.				
	Filling supplied by the Contractor under floors, trenches, etc.				
13	Backfilling to trenches, holes, etc	m3	44		
14	Sub-base filling (G6) from excavations under solid floors, steps, pavings, etc., compacted to 95% modified AASHTO density	m3	10		
	COMPACTION OF SURFACES				
15	Prepare ground surface by scarifying subgrade, rip and recompact 150mm to 93% modified AASHTO density	m2	21		
	WEEDKILLERS, INSECTICIDES, TERMITES, etc.				
	Termite poisoning: Treat ground under all internal and external walls, concrete beds and reinforced concrete slabs with poison as per clause 2.13 of specification OOG-001E with 50mm sand over poison.				
16	Loosen top surface of excavation or filling under solid floors and pavings for a depth of 50mm, level and dose uniformly with insecticide solution, including raking over to ensure an even distribution and recompact along foundation walls, columns, etc	m2	20		
17	To bottom of excavated trenches, Holes, etc.	m2	252		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 1			R	
	Earthworks				

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	SUPPLEMENTARY PREAMBLES			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors			
	Cost of tests:			
	The costs of making, storing and testing of concrete test cube as required under clause 7 'Tests of SABS 1200 G shall include the cost for providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Employer.			
	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 reuse.			
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Carried Forward		R	
	Section No. 2 Bill No. 2 Concrete, Formwork and Reinforcement			

	Brought Forward			R	
	Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				ļ
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.				
	CONCRETE, FORMWORK AND REINFORCEMENT IN FOUNDATIONS				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	Grade 15Mpa/19mm concrete				
1	50mm concrete blinding under footings and bases	m3	3		
	REINFORCED CONCRETE				
	25MPa/19mm Concrete:				
2	In strip footings.	m3	1		
3	Thickenings.	m3	1		
4	Surface beds.	m3	2		
	30MPa/20mm Concrete:				
5	Bases	m3	15		
6	Column,.etc	m3	3		
7	Foundation beams	m3	7		
8	Columns	m3	0.2		
9	In Stub Columns	m3	2		
	TEST BLOCKS				
	Carried Forward			R	
	Section No. 2 Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	Notes:				
	Curing and testing of test blocks are to be carried out by a approved labaratory				
10	Making and testing set of six 150 x 150 x 150mm concrete strength test cubes	Sets	36		
	SUNDRIES TO CONCRETE				
	Surface treatment				
11	Wood float finish to top surfaces of concrete surface beds, slabs, etc	m2	24		
	Grade 15Mpa/19mm concrete apron				
12	Concrete Apron cast to fall, including formwork, etc	m3	2		
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen impregnated softboard between vertical concrete surfaces				
13	6mm x 15mm deep saw cut joint	m	4		
14	10 mm Joints not exceeding 300 mm high	m	25		
	Flintkote sealing compound including backing cord, bond breaker, primer, etc				
15	6 x 10mm in saw cut joints in floors	m	24		
	SMOOTH FORMWORK				
	Degree of Accuracy 2				
	Smooth formwork to sides and soffits				
16	Slabs propped up exceeding 3,0 and not exceeding 4,5m high				
	4,011 High	m2	19		
17	To columns exceeding 3.5 but not exceeding 5m high	m2	21		
	Carried Forward			R	
	Section No. 2 Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	ROUGH FORMWORK				
	Degree of Accuracy 2				
	Formwork including propping not exceeding 3,5m high to:				
18	Edge of slab not exceeding 300mm high	m	41		
	CONCRETE DUNDRIES				
	Dowel bars				
19	12mm Diameter high tensile steel dowel 400mm long with one end embedded 200mm deep in side of concrete and other end greased with "Epidermix 396" and wrapped in polyethylene sheeting including hole through formwork (drilling elsewhere measured)	No	132		
	<u>Drilled holes</u>				
20	Drill 28mm diameter hole in existing reinforced concrete	No	132		
	REINFORCEMENT (PROVISIONAL)				
	Mild Steel reinforcement to structural work				
21	8mm Diameter bars	t	1.40		
22	10mm Diameter bars	t	0.40		
	High tensile steel reinforcement to structural concrete				
23	10mm Diameter bars	t	0.50		
24	12mm Diameter bars	t	0.51		
25	16mm Diameter bars	t	0.01		
	Fabric reinforcement:				
26	Type 311 fabric reinforcement in concrete surface beds, slabs, etc.	m2	28		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 2 Concrete, Formwork and Reinforcement				

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 3				
	MASONRY				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	BRICKWORK IN FOUNDATION, etc.				
	Ordinary brickwork				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar laid in stretcher bond with 10mm flush joints and prepared to take plaster				
1	One-brick wall	m2	39		
2	Half brick walls.	m2	2		
3	440mm brick wall	m2	5		
	Reinforcement to brickwork				
4	Brick reinforcing fabric 75mm wide	m	15		
5	Brick reinforcing fabric 150mm wide	m	173		
	BRICKWORK IN SUPERSTRUCTURE				
	TEMPORARY TURNING PIECES, ETC				
6	To flat block not exceeding 300 wide	m	6		
	Brickwork in burnt clay NFP bricks in 3:1 cement mortar:				
7	Half brick walls.	m2	17		
8	One-brick wall	m2	120		
	Carried Forward			R	
	Section No. 2 Bill No. 3 Masonry				

	Brought Forward			R	
	SUNDRIES				
9	75mm Wide reinforcement built in horizontally.	m	56		
10	150mm Wide reinforcement built in horizontally.	m	394		
	Galvanised hoop iron cramps, ties, etc.				
11	30 x 1,6mm Wall tie 300mm long with one end shot pinned to concrete and other end built into brickwork.	No	20		
	PRECAST CONCRETE LINTELS				
	Approved prestressed fabricated lintels				
12	110 x 75mm Standard lintel not exceeding 3m long, hoisted into position and laid over opening on brick walls with ends bedded in class II mortar.	m	1		
13	Pair of 110 x 75mm Lintel not exceeding 3m long, hoisted into position and laid over opening on brick walls with ends bedded in class II mortar.	m	10		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	30-40Mpa Midrand Country Meadow FBX clay face bricks with PC sum amount of R 3 800.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints, suitable for exposure zones 1-2				
14	Extra over Ordinary brickwork for face brickwork in foundations (Provisional)	m2	43		
15	Extra over brickwork for face brickwork	m2	122		
16	Extra over ordinary face-brick work for brick-on-edge header course band	m	25		
	Carried Forward			R	
	Section No. 2 Bill No. 3 Masonry				

	Brought Forward		R	
17	Cut face brick-on-edge header course external window cill in cement mortar 160mm high, set sloping and pointed on top and front edge including fair and fitted ends	11		
18	Extra over ordinary face-brick work for brick-on-edge header course lintel m	12		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 3 Masonry		R	

Item No		Qı	uantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 4				
	WATERPROOFING				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	SUPPLEMENTARY PREAMBLES				
	Waterproofing				
	Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp-proof course:				
1	In walls, under cills, etc.	m2	18		
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape":				
2	Under surface beds.	m2	16		
	Apply one coat abe bitu primer and allow to dry and one layer abedex unigum 4mm dual reinforced waterproofing membrane, fully bonded by means of "torch on fusion", with 100mm side laps and 150mm end laps using a torch, all in accordance with manufacturer's technical specifications				
3	On screeded slab	m2	19		
	Carried Forward Section No. 2 Bill No. 4			R	
	Waterproofing				

	Brought Forward			R	
4	Bottom and sides of planters	m2	38		
5	On turn-ups and turn downs not exceeding 300mm girth	m	22		
	Apply three coats super laykold, embed abe membrane into first wet coat, avoiding bubbles or wrinkles, membrane overlaps minimum 100mm on end laps and 75mm on side laps using brush or roller all in accordance with manufacturer's recommendations				
6	On screeded slab	m	25		
7	Bottom and sides of planters	m2	38		
8	On turn-ups and turn downs not exceeding 300mm girth	m	22		
	Apply two coats silvakote all in accordance with manufacturer's instructions				
9	On screeded slab	m2	18		
10	Bottom and sides of planters	m2	38		
11	On turn-ups and turn downs not exceeding 300mm girth	m	22		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 4 Waterproofing			R	

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 5				
	ROOF COVERINGS, ETC.				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTICS, ETC.				
	0,58mm "Global Roofing Solutions Klip-lok 700" Z275 galvanised sheet metal roof covering roll- formed in continuous lengths with "white lion" chromadek finish to one side and grey batching coat to the other side fixed to purlins				
1	Roof sheeting with pitch not exceeding 25 degrees	m2	197		
2	Valley flashing 550mm girth	m	22		
3	Narrow and broad flute closer 550mm girth	m	22		
4	0,6mm Thick Galvanised Preformed valley liner	m	11		
	ROOF INSULATION				
5	Fibreglass reinforced aluminium foil faced resin bonded glass fibre flexible building insulation: 50mm Thick fibreglass roof insulation (10kg/m3) laid taut over purlins (purlins at approximately 2m centres) with minimum 100mm side laps and fixed concurrent with roof covering including galvanised steel straining wires, etc.	m2	206		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 5 Roof Coverings, etc			R	

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 6				
	CARPENTRY AND JOINERY				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	SUPPLEMENTARY PREAMBLES				
	DOORS, WINDOWS, SASHES, ETC.				
	Solid flush doors with commercial veneer on both sides hung on steel frames suitable for 220mm thick wall (frames elsewhere):				
1	40mm Framed, ledged, braced and battened doors 813 x 2032mm high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 110mm braces and 20 x 225mm bottom ledge filled in with 20mm V-joined one side boarding	No	2		
	Solid flush doors:				
2	Standard 44mm thick solid core flush panel with hardwood timber veneer on both sides prepared for painting. average door size overall 813 x 2032mm high.				
	(D2)	No	2		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 6 Carpentry and Joinery				

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 7			
	IRONMONGERY			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors			
	LOCKS			
	All locks to be provided with two keys per door with master key set submitted to Project Manager			
1	Lockset comprising CISA hostel lock with satin chrome finish with "Union code 2 x 195CMKD" or similar approved knob cylinder masterkeyed and stainless Umea Couple lever	0 4		
	DOOR CLOSERS			
2	"Dorma TS83" door closer with hold open parallel arm N	0 2		
	LETTER, NAMEPLATES, ETC			
3	"Serra Rol TR2 Code DS1310" size 265 x 130 x 135mm stainless steel lockable toilet roll holder including mounting brackets screwed and plugged to walls	0 2		
	SUNDRIES			
	Silver aluminium clip-lock door numbering system			
4	"ASSA ABLOY code TL0708" 45 x 25mm diameter, 6mm rubber floor door stop, plugged N	0 4		
	Hat and coat hooks			
5	"Buchels B3653" or similar approved chromium plated hat and coat hook plugged and screwed to timber doors	0 2		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 Bill No. 7 Ironmongery			

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 8				
	STRUCTURAL STEEL				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	STRUCTURE				
	The following steel columns, rafters, and beams in frames hoisted and bolted together in position approximately 5561mm above finished floor level. Members with welded plates and angle sections in connections:				
1	Light steel frame mono pitched roof structure complete, total floor coverage area 104m2	t	4.25		
2	Light steel frame mono pitched roof structure complete, total floor coverage area 102m2	t	3.50		
	SUNDRIES				
3	Dry pack grouting 25mm thick under steel base plate to top of column size 500 x 500mm	No	24		
	<u>DRAWINGS</u>				
	Preparation of acceptable shop detail drawings				
4	Prepare and submit to the engineer acceptable as-built drawings		Item		
	PAINTWORK, ETC TO NEW WORK ON				
	ON STRUCTURAL STEEL				
	Carried Forward			R	
	Section No. 2 Bill No. 8 Structural Steel				

	Brought Forward		R	
	Apply one coat syncromate primer in accordance with SABS 679 1972, apply one coat multi purpose undercoat in accordance with SABS 681 and apply two coats of alkyd base enamel in accordance with SABS 630 (colour to Architects approval)			
5	On columns and beams	5.48		
6	On channel, bracing, etc t	2.27		
7	On plates, bolts	0.83		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 Bill No. 8 Structural Steel			=

Item No		Quantity	Rate	Amount
1	SECTION NO. 2			
	BILL NO. 9			
	<u>METALWORK</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors			
	HOT-DIP GALVANISED PRESSED STEEL DOOR FRAMES			
	1,2mm Double rebated pressed steel door frames suitable for half brick walls			
1	Frame for door size 813 x 2 032mm high properly fitted level by all means	2		
	1,2mm Double rebated pressed steel door frames suitable for One brick walls			
2	Frame for door size 813 x 2 032mm high properly fitted level by all means	2		
	Steel Gate			
3	Single gate, size 900 x 2164mm high of 50 x 30 x 3mm rectangular hollow section frame all round with mitred angles and two 30 x 6mm flat section horizontal intermediate rails with ends welded to framing and with seven 12mm diameter rod vertical bars framed through intermediate rails with ends welded to and including 40 x 40 x 3mm hollow section framing, hinges, locking devices, etc	1		
	PURPOSE MADE BRONZE POWDERCOATED ALUMINIUM DOOR AND WINDOWS SEALED AND FIXED TO BRICKWORK OR CONCRETE			
	Doors and windows all according to door and window schedule			
	Carried Forward		R	
	Section No. 2 Bill No. 9 Metalwork			

	Brought Forward	t		R
	Window glazed with 4mm obscure glass			
4	Aluminium window size 600 x 900mm high (W4)	No	2	
5	Aluminium window size 1200 x 1100mm high (W1)	No	4	
6	Aluminium window size 1270 x 1000mm high (W2)	No	2	
7	Aluminium window size 1270 x 1000mm high (W3)	No	2	
	WELDED STEEL FRAMEWORK, COLUMNS, ETC			
	Plates, cleats, etc			
8	250 x 250 x 20mm Thick base plate six times holed for			
	M28 bolts (elsewhere) welded on	No	132	
	Bolts, etc			
9	M28 x 300 holding down bolt cast in concrete	No	132	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 9			
	Metalwork			

Item No			Quantity	Rate	Amount	
	SECTION NO. 2					
	BILL NO. 10					
	PLASTERING					
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors					
	SCREEDS					
	Screeds on concrete:					
1	50mm thick on floors to receive waterproofing	m2	16			
2	25mm Thick on floors to falls and currents	m2	19			
	INTERNAL PLASTER					
	One coat cement plaster mimimum 15mm thick (5:1) wood floated to receive tiles (elsewhere) including all labours on:					
3	On wall	m2	40			
4	Narrow widths, not exceeding 300mm wide	m2	6			
	Prepare and rhinolite skim plaster receive paint (elsewhere) including all labours on:					
5	Ceiling	m2	15			
	CORNER PROTECTORS, DIVIDING STRIPS, ETC					
6	25 x 25mm Galvanised steel corner protectors fixed to brickwork	m	2			
				_		_
	Carried Forward to Summary of Section No. 2			R		=
	Section No. 2 Bill No. 10 Plastering					

Item No			Quantity	Rate	Amount
1	SECTION NO. 2				
	BILL NO. 11				
	TILING				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	WALL TILING				
	600 x 400mm x 6mm Thick glazed ceramic wall tiles "Johnson WD Woodlands Mist", and add for waste, laying, fixing with an approved adhesive and jointing and pointing in `Tal' grout to;				
1	On walls	m2	38		
2	On narrow widths	m2	2		
3	Walls in splash backs	m2	1		
4	Fair exposed cutting and fitting around pipe not exceeding 50mm diameter	No	2		
5	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 110mm internal diameter	No	2		
	FLOOR TILING IN PATTERNS				
	600 x 600 x 10mm "Ceragran" or similar approved full bodied porcelain tiles includes waste, laying, supply and fixing with an approved adhesive and jointing in tinted "Tal" grout to:				
6	Screeded floor	m2	15		
7	200mm High cut skirtings	m	15		
8	In narrow widths	m2	0.2		
	Carried Forward			R	
	Section No. 2 Bill No. 11 Tiling				

	Brought Forward			R	
	ALUMINIUM AND PVC TRIMS, ETC.				
9	`Genesis ESA 150' natural anodised aluminium straight edge protector 12mm high at junction of differing floor finishes, plugged and screwed	m	2		
	GRANITE SLABS				
10	32mm thick "Rustenburg black" granite top fixed to and including 32 x 32 x 3mm thick mild steel angle and all necessary cleats, bolts, bolting to the walls, powder coating, etc 2540 x 300mm High vanity with bullnose finish on front and sides including 300mm granite modesty panel on front and one side, top to include 100mm high slashback, named "vanity section" on drawing no. J307-				
	A161	No	2		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 11 Tiling				

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 12				
	PLUMBING AND DRAINAGE				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	SANITARY FITTINGS				
1	"Vaal Lavatera code 705326" white vitreous china wall hung "flatback" urinal size 415 x 315 x 275mm complete with and including concealed wall hangers, chromium plated waste outlet and 38mm diameter domical grating (code 8787Z0), spreader and exposed flush valve (code 8543Z0), and two hinger brackets (code 8127Z0) including sealing watertight, along the junction with wall, with an approved silicon sealant and "Cobra Watertech code 340" chromium plated bottle trap	No	2		
2	510 x 405mm White "Vaal Hibiscus Code 702303WH"				
2	wash hand basin wall hung, neatly bolted to the wall with two 8mm code 8446Z0 bolts neatly sealed with silicon between basin and wall. Basin to be fitted with 15mm "Cobra Star Pillar Tap 503-21B"chromium plated taps, connection to water supply with "flexi" chromium plated connection pipes and installation of chromium plated angle regulating valve complete with sliding wall flange "Cobra Watertech code 232-10". Basin supplied complete with "Cobra Watertech Code 340" chromium plated bottle trap and 32mm basin waste union and plugs and chain complete.	No	2		
		INO	2		
3	"Prisma Kwikot FPRX-10-UB" 10 Litre under basin geyser in ceiling including for geyser tray, all hot and cold water pipework and fittings, pressure reducing valves, vacuum breakers, in-line strainers, overflow pipes, etc	No	1		
	Carried Forward			R	
	Section No. 2 Bill No. 12 Plumbing and drainage				

	Brought Forward			R	
ļ	Testing				
4	Allow for testing the whole of the plumbing installation		Item		
	Full bore Cast Iron outlet				
5	80mm Vertical outlet	No	4		
6	80mm 45 or 90 Degree side outlet	No	4		
7	80mm Two-way outlet	No	4		
	SANITARY PLUMBING				
	Upvc pipes				
8	40mm pipes fixed to walls, concrete, etc	m	3		
9	50mm pipes fixed to walls, concrete, etc	m	5		
10	110mm pipes fixed to walls, concrete, etc	m	2		
	Extra over pipes for fittings				
11	40mm Plain Bend	No	6		
12	40mm Access bend	No	6		
13	40mm Junction	No	3		
14	40mm diameter 2 way vent valve	No	2		
15	50mm Bend	No	3		
16	50mm T juntion	No	2		
17	50mm Access bend	No	2		
18	50mm Access Junction	No	3		
19	110mm Access bend	No	2		
20	110mm Plain bend	No	2		
	Carried Forward			R	
	Section No. 2 Bill No. 12 Plumbing and drainage				

	Brought Forward			R	
21	110mm Pan connector	No	2		
22	110mm Reducing junction	No	4		
23	100mm diameter Two way vent valve	No	2		
	Full bore Cast Iron outlet				
24	80mm Vertical outlet	No	2		
25	80mm 45 or 90 Degree side outlet	No	2		
26	80mm Two-way outlet	No	2		
27	100mm Vertical outlet	No	2		
28	100mm 45 or 90 Degree side outlet	No	2		
29	100mm Two-way outlet	No	2		
	WATER SUPPLY				
	HOT AND COLD WATER AND FIRE SERVICE RETICULATIONS				
	Medium class copper to SABS 62, with screwed ends, to walls , etc.:				
30	15mm Diameter pipe.	m	30		
31	20mm Diameter pipe.	m	18		
	Extra over copper pipes for screwed fittings:				
32	15mm Fitting.	No	30		
33	20mm Fitting.	No	30		
	TESTING				
34	Testing water pipe system		Item		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 12 Plumbing and drainage				

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 13				
	GLAZING				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	TOPS, SHELVES, DOORS, MIRROR ETC				
	4 mm Silvered float glass copper backed mirrors with polished bevelled edges fixed with double sided adhesive tape to and including painted supawood sub-frame approximately 350 x 900 mm fixed to and including galvanised angle section cleats/brackets				
1	Mirror 450 x 800mm high	No	2		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 13 Glazing				

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 14				
	<u>PAINTWORK</u>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	PAINTWORK, ETC TO NEW WORK ON				
	FLOATED PLASTER SURFACES WITH				
	Prepare and apply one coat "Dulux" trade alkali resistant plaster primer, one coat undercoat and two coats "Dulux" trade 100 lowsheen paint on:				
1	Internal walls	m2	33		
2	Narrow widths, not exceeding 300mm wide	m2	5		
	Prepare and apply one coat "Dulux" trade alkali resistant plaster primer, one coat undercoat and two coats "Dulux" trade 100 lowsheen paint on:				
3	Ceilings	m2	15		
	<u>METAL</u>				
	Prepare and apply one coat "Dulux" steel primer, one coat "Dulux undercoat" and two coats "Dulux" pearlglo waterbased paint, all paint to be as per manufacturer's specification:				
4	Door frames.	m2	7		
	WOOD				
	Carried Forward			R	
	Section No. 2 Bill No. 14 Paintwork				

	Brought Forward			R	
	Prepare and apply one coat "Dulux" primer for wood, one "Dulux" trade universal undercoat, two coats "Dulux" pearglo waterbased all paint to be as per manufacturer's specification:				
5	General surfaces of doors.	m2	15		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 14				
	Paintwork				

Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 15				
	EXTERNAL WORK				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors				
	SUPPLEMENTARY PREAMBLES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and dumping on areas to be indicated by the Architect				
	Note:				
	All External Works excavations measured in the following sections are in poor soil conditions.				
	The responsibility of achieving the compaction densities specified and for obtaining suitable fill material from an appropriate source (either from site excavations or imported) rests solely with the Contractor. The rates shall be deemed to include for all costs in connection therewith.				
	The Tenderer is advised to refer Architect's site layout plan for site clearance, etc before pricing this bill.				
	To Civil engineers detail and specification. Parking as per council zoning requirements. Minimum requirement by client is 2 parking bays per fitment and alignment bay. Client to approve parking layout prior to any work being put in hand.				
	Carried Forward			R	
	Section No. 2 Bill No. 15 External Works				

	Brought Forward			R		
l,	Loading area to be provided with direct access to roll up door to store. Loading area min 3m wide.					
	SITE CLEARANCE ETC					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	4,454			
2	Stripping average 600mm thick layer of top soil and stockpiling on site	m2	4,454			
	Taking out and removing, grubbing up roots and filling in holes					
	REMOVAL OF TREES ETC					
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	1			
4	Tree stump exceeding 1000mm and not exceeding 1500mm girth	No	2			
	BULK EXCAVATION, FILLING, ETC					
	Open face excavation in earth over sloping site					
5	Open face excavation (including widening and depth to be approved by the engineer) to form platform	m3	906			
	Extra over bulk excavation in earth for excavation in					
6	Soft rock	m3	91			
7	Hard rock	m3	9			
	Extra over all excavation for carting away					
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor 5km from building site	m3	22			
	RISK OF COLLAPSE OF EXCAVATIONS					
						_
	Carried Forward			R		
	Section No. 2 Bill No. 15 External Works					
				1	II	I

	Brought Forward			R		
	Risk of collapse of excavations					
9	Sides of bulk excavations not exceeding 1,5m deep	m2	14			
10	Sides of bulk excavations exceeding 1,5m deep	m2	7			
	KEEPING EXCAVATIONS FREE FROM WATER					
11	Keeping excavations free of all water other than subterranean water		Item			
	FILLING, ETC.					
	Earth filling supplied by the contractor compacted to 97% Mod AASHTO					
12	Over site to form platforms	m3	11			
	Earth filling (MinCBR at 93% Mod AASHTO =25: Max PI=10) supplied by the contractor compacted to 93% Mod AASHTO density					
13	Selected sub-grade of G5 material in accordance with SABS 1200 DM compacted to 93% Mod AASHTO density in 150mm thick layers.	m3	11			
14	Selected sub-grade of G6 material in accordance with SABS 1200 DM compacted to 93% Mod AASHTO density in 150mm thick layers.	m3	11			
15	In-situ rip and recompact filing compacted to 90% Mod AASHTO density	m3	11			
	PAVING					
	<u>EARTHWORKS</u>					
	REMOVAL OF EXISTING WORK					
	Breaking down and removing concrete etc					
16	Paving, etc	m2	37			
	Excavations in earth not exceeding 2m deep					
17	Reduced levels under paving	m3	259			
	Carried Forward			R		
	Section No. 2 Bill No. 15 External Works					
	•	•	•	'	==	-

	Brought Forward			R	
	Extra over bulk excavation in earth for excavation in (Provisional)				
18	Soft rock	m3	26		
19	Hard rock	m3	3		
	Earth filling supplied by the contractor under pavings etc				
20	150mm Sub-grade layer of G5 material compacted to 95% MOD AASHTO density	m3	389		
21	150mm Sub-grade layer of G6 material compacted to 95% MOD AASHTO density	m3	389		
	Filling, etc.				
22	50mm thick clean, dry river sand layer treated with an approved weed killer at a rate of 50 grams per square metre, spread and levelled to receive paving blocks (elsewhere)	m2	2,592		
	Compaction of surfaces				
23	Compaction of ground surface under pavings, etc including scarifying for depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 98% modified AASHTO density	m2	2,592		
	Prescribed density tests on filling				
24	"Modified AASHTO Density" test	No	1		
	"Hyvar-X" or similar weed killer				
25	Under pavings, etc and spayed over previously wetted				
	ground	m2	2,592		
	Carried Forward			R	
	Section No. 2 Bill No. 15 External Works				

Brought Forward			R		
Paved to be constructed around the building, elsewhere, and Ramp to be provided up to main door to the building, etc. to allow vehicle access. pavers to match existing, pavers laid in strict accordance with the manufacturer's printed instructions, colour and pattern to Architect's approval:					
80mm Thick interlocking paving blocks, Type S - A class 25 with individual blocks having a wet strength of 20MPa complying with SABS 1200 MJ - 1984 Specification, or laid to match existing pavers	m2	2,592			
Extra for edge kerbs	m	1,211			
Precast concrete finished smooth o exposed surfaces, including bedding, jointing and pointing					
300 x 150mm High kerbs (SABS 927 fig 8) with 150 x 150 x 300mm unreinforced concrete hauching at the back of each joint, including excavation, backfilling, etc	m	76			
Road markings with non-reflectorised paint applied at nominal rate of 0.42 l/m2 (SANS 1200MM 8.4.1)					
100mm White lines (broken or unbroken)	km	0.5			
White characters and symbols	m2	5			
ROADS					
FILLING, ETC.					
BULK EXCAVATION, FILLING, ETC					
Open face excavation in earth over sloping site					
Open face excavation (including widening and depth to be approved by the engineer) to form platform	m3	141			
Extra over bulk excavation in earth for excavation in					
Soft rock	m3	14			
Hard rock	m3	2			
Carried Forward			R		
Section No. 2 Bill No. 15 External Works					
	Paved to be constructed around the building, elsewhere, and Ramp to be provided up to main door to the building, etc. to allow vehicle access. pavers to match existing, pavers laid in strict accordance with the manufacturer's printed instructions, colour and pattern to Architect's approval: 80mm Thick interlocking paving blocks, Type S - A class 25 with individual blocks having a wet strength of 20MPa complying with SABS 1200 MJ - 1984 Specification, or laid to match existing pavers Extra for edge kerbs Precast concrete finished smooth o exposed surfaces, including bedding, jointing and pointing 300 x 150mm High kerbs (SABS 927 fig 8) with 150 x 150 x 300mm unreinforced concrete hauching at the back of each joint, including excavation, backfilling, etc Road markings with non-reflectorised paint applied at nominal rate of 0.42 l/m2 (SANS 1200MM 8.4.1) 100mm White lines (broken or unbroken) White characters and symbols ROADS FILLING, ETC. BULK EXCAVATION, FILLING, ETC Open face excavation (including widening and depth to be approved by the engineer) to form platform Extra over bulk excavation in earth for excavation in Soft rock Hard rock Carried Forward Section No. 2 Bill No. 15	elsewhere, and Ramp to be provided up to main door to the building, etc. to allow vehicle access. pavers to match existing, pavers laid in strict accordance with the manufacturer's printed instructions, colour and pattern to Architect's approval: 80mm Thick interlocking paving blocks, Type S - A class 25 with individual blocks having a wet strength of 20MPa complying with SABS 1200 MJ - 1984 Specification, or laid to match existing pavers Extra for edge kerbs m Precast concrete finished smooth o exposed surfaces, including bedding, jointing and pointing 300 x 150mm High kerbs (SABS 927 fig 8) with 150 x 150 x 300mm unreinforced concrete hauching at the back of each joint, including excavation, backfilling, etc Road markings with non-reflectorised paint applied at nominal rate of 0.42 l/m2 (SANS 1200MM 8.4.1) 100mm White lines (broken or unbroken) White characters and symbols ROADS FILLING, ETC. BULK EXCAVATION, FILLING, ETC Open face excavation (including widening and depth to be approved by the engineer) to form platform m3 Extra over bulk excavation in earth for excavation in Soft rock Ma3 Hard rock Carried Forward Section No. 2 Bill No. 15	Paved to be constructed around the building, elsewhere, and Ramp to be provided up to main door to the building, etc. to allow vehicle access, pavers to match existing, pavers laid in strict accordance with the manufacturer's printed instructions, colour and pattern to Architect's approval: 80mm Thick interlocking paving blocks, Type S - A class 25 with individual blocks having a wet strength of 20MPa complying with SABS 1200 MJ - 1984 Specification, or laid to match existing pavers Extra for edge kerbs m 1,211 Precast concrete finished smooth o exposed surfaces, including bedding, jointing and pointing 300 x 150mm High kerbs (SABS 927 fig 8) with 150 x 150 x 300mm unreinforced concrete hauching at the back of each joint, including excavation, backfilling, etc Road markings with non-reflectorised paint applied at nominal rate of 0.42 l/m2 (SANS 1200MM 8.4.1) 100mm White lines (broken or unbroken) White characters and symbols ROADS FILLING, ETC. BULK EXCAVATION, FILLING, ETC Open face excavation in earth over sloping site Open face excavation (including widening and depth to be approved by the engineer) to form platform Soft rock m3 141 Extra over bulk excavation in earth for excavation in Soft rock Carried Forward Section No. 2 Bill No. 15	Paved to be constructed around the building, elsewhere, and Ramp to be provided up to main door to the building, etc. to allow vehicle access, pavers to match existing, pavers lad in strict accordance with the manufacturer's printed instructions, colour and pattern to Architect's approval: 80mm Thick interlocking paving blocks, Type S - A class 25 with individual blocks having a wet strength of 20MPa complying with SABS 1200 MJ - 1984 Specification, or laid to match existing pavers Extra for edge kerbs m 1,211 Precast concrete finished smooth o exposed surfaces, including bedding, jointing and pointing 300 x 150mm High kerbs (SABS 927 fig 8) with 150 x 150 x 300mm unreinforced concrete hauching at the back of each joint, including excavation, backfilling, etc Road markings with non-reflectorised paint applied at nominal rate of 0.42 l/m2 (SANS 1200MM 8.4.1) 100mm White lines (broken or unbroken) White characters and symbols ROADS FILLING, ETC. BULK EXCAVATION, FILLING, ETC Open face excavation in earth over sloping site Open face excavation in earth over sloping site Open face excavation in earth for excavation in Soft rock m3 141 Extra over bulk excavation in earth for excavation in Soft rock Rard Forward Carried Forward R Section No. 2 Bill No. 15	Paved to be constructed around the building, elsewhere, and Ramp to be provided up to main door to the building, etc. to allow vehicle access, pavers to match existing, pavers lad in strict accordance with the manufacturer's printed instructions, colour and pattern to Architect's approval: 80mm Thick interlocking paving blocks, Type S - A class 25 with individual blocks having a wet strength of 20MPa complying with SABS 1200 MJ - 1984 Specification, or laid to match existing pavers m 1,211 Precast concrete finished smooth o exposed surfaces, including bedding, jointing and pointing 300 x 150mm High kerbs (SABS 927 fig 8) with 150 x 150 x 300mm unreinforced concrete hauching at the back of each joint, including excavation, backfilling, etc. Road markings with non-reflectorised paint applied at nominal rate of 0.42 l/m2 (SANS 1200MM 8.4.1) 100mm White lines (broken or unbroken) White characters and symbols ROADS FILLING, ETC. BULK EXCAVATION, FILLING, ETC Open face excavation in earth over sloping site Open face excavation including widening and depth to be approved by the engineer) to form platform Soft rock Carried Forward Carried Forward R Section No. 2 Bill No. 15

	Brought Forward			R	
	Extra over all excavation for carting away				
34	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor 5km from building site	m3	71		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse of excavations				
35	Sides of bulk excavations not exceeding 1,5m deep	m2	141		
36	Sides of bulk excavations exceeding 1,5m deep	m2	14		
	KEEPING EXCAVATIONS FREE FROM WATER				
37	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling (MinCBR at 93% Mod AASHTO =25: Max PI=10) supplied by the contractor compacted to 93% Mod AASHTO density				
38	Selected sub-grade of G5 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density in 150mm thick layers.	m3	530		
39	Selected base material in accordance with SABS 1200 DM from stockpile and compacted to 95% Mod AASHTO density in 150mm thick layers.	m3	141		
40	In-situ rip and recompact filing compacted to 90% Mod				
40	AASHTO density	m3	943		
	ASPHALT BASE AND SURFACING				
	Prime coat				
41	Apply MC-30 cut back bitumen (using an application rate 1l/m2)	m2	943		
	Tack coat				
42	Apply tack coat 30% stable grade emulsion	m2	943		
	Carried Forward			R	
	Section No. 2 Bill No. 15 External Works				

	Brought Forward			R	ı
	<u>Asphalt</u>				ı
43	25mm Thick asphalt continuously medium graded, using SBS or AE-2 modified binder or similar thickness	m2	943		ĺ
	SEWER DRAINAGE				ı
	Allow for site visits and Inspections of existing drainage system:				l
44	Allow for Drainage System Inspection.		Item		ı
	Supply uPVC Heavy Duty Class 34 to SANS 791 sewer pipes				l
45	110mm Pipe and excavation not exceeding 1m deep	m	35		ı
46	110mm Pipe and excavation exceeding 1m deep but not exceeding 2m deep	m	5		
	Extra over uPVC pipe for fittings				I
47	110mm Bend	No	3		ı
48	110mm Access junction	No	2		l
49	160mm T-junction pipe	No	1		ı
	<u>Sundries</u>				ı
	Gulley not exceeding 1m deep to invert comprising 110mm diameter uPVC gulley trap and head, fitted with 190mm diameter cast iron grating, including excavation for, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in cement mortar	No	1		
50	ABC cast iron or similar approved straight or bent cleaning eye with removable cover jointed to 110mm uPVC pipe and set in and including 15Mpa/19mm mass concrete surround with exposed surfaces trowelled smooth	No	1		
51	Connect to existing soil drainage pipe exceeding 100mm and not exceeding 200mm diameter and make good	No	1		
	Carried Forward			R	
	Section No. 2 Bill No. 15 External Works				

	Brought Forward			R	
	THE FOLLOWING IN PRE-FABRICATED MANHOLES				
	Excavate in earth for and including circular type precast concrete manhole formed of 1.4m diameter x 100mm thick 20MPa/19mm mass concrete bottom with manhole shaft formed of 1.05m diameter (internal) precast concrete rings with joints sealed with bitumious putty with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and including heavy duty road type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step iron, etc				
52	Manhole not exceeding 1000mm deep	No	1		
	WATER RETICULATION				
	Allow for site visits and Inspections of existing water system:				
53	Allow for Water System Inspection.		Item		
	HDPE Class 12 piping with "Plasson" or other approved fittings				
54	32mm Diameter and excavations not exceeding 1m deep	m	35		
	Extra over polyethylene pipe for fittings				
55	32mm Tee or reducing tee	No	2		
56	32mm Reducing junction	No	3		
57	32mm Adaptor	No	2		
58	32mm T-junction pipe	No	1		
	Carried Forward			R	
	Section No. 2 Bill No. 15				
	External Works				
					i

	Brought Forward			R	
	Sundries, etc.				
59	Excavate in earth for and build stop cock box size 225 x 600mm deep internally with half brick sides in cement mortar with 225 x 225mm regulation pattern cast iron hinged box Type 11B set in and including 15Mpa/19mm mass concrete surround size 75mm wide x 100mm deep all round	No	1		
60	Excavate in earth for and build water connection manhole size 1 015 x 600 x 880mm deep internally with half brick sides in cement mortar and 15Mpa concrete foundation and floor, manhole to include 5mm thick steel plate with 10mm roundbar drop handles, etc complete as per detail Drawing	No	1		
61	Allow for 75mm water connection into existing main water supply		Item		
	Testing				
62	Supply all the necessary apparatus, water etc. for and test the water supply system to the satisfaction of the Representative/Agent and Local Authority, rectify all defective work free of charge and leave in perfect order	No	1		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 15 External Works				

Bill	SECTION SUMMARY - Taletso Access Control, Lichtenburg Cam	<u>pus</u> Page		Amount
No		No		
1	Earthworks	29		
2	Concrete, Formwork and Reinforcement	33		
3	Masonry	36		
4	Waterproofing	38		
5	Roof Coverings, etc	39		
6	Carpentry and Joinery	40		
7	Ironmongery	41		
8	Structural Steel	43		
9	Metalwork	45		
10	Plastering	46		
11	Tiling	48		
12	Plumbing and drainage	51		
13	Glazing	52		
14	Paintwork	54		
15	External Works	63		
	Carried to Final Summary		R	
	Section No. 2			
	555.5.1110. 2			

Item No		Quantity	Rate	Amount
	SECTION NO. 3			
	BILL NO. 1			
	PROVISIONAL SUMS			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades published by Association of South African Quantity Surveyors			
	The following sums and amounts are NETT.			
	Under no circumstances may any Provisional Sum or P.C Item be altered.			
	ALLOW THE FOLLOWING PROVISIONAL SUMS			
	SIGNAGE			
1	Provide the amount of R 30 000.00 (Thirty Thousand Rands) for the complete signage	Item		30,000.00
2	Profit on above item.	Item		
3	Attendance on ditto.	Item		
	ELECTRICAL INSTALLATION			
4	Provide the amount of R 100 000.00 (One Hundred Thousand Rands) for the complete electrical installation	Item		100,000.00
5	Profit on above item.	Item		
6	Attendance on ditto.	Item		
	ACCESS CONTROL			
7	Provide the amount of R 500 000.00 (Five Hundred Thousand Rands) for the complete access control installation	Item		500,000.00
8	Profit on above item.	Item		
9	Attendance on ditto.	Item		
	Carried Forward		R	
	Section No. 3 Bill No. 1 Provisional Sums			

	Brought Forward		R	
	CARPORTS			
10	Provide the amount of R 250 000.00 (Two Hundred FiftyThousand Rands) for carports	Item		250,000,00
	<u>GATE</u>			
11	Provide the amount of R 50 000.00 (Fifty Thousand Rands) for the gates	Item		50,000.00
	<u>LANDSCAPE</u>			
12	Provide the amount of R 50 000 (Fifty Thousand Rands) for the landscape	Item		50,000.00
13	Profit on above item.	Item		
14	Attendance on ditto.	Item		
	Carried to Final Summary		R	
	Section No. 3 Bill No. 1			
	Provisional Sums			

	FINAL SUMMARY			
Section No		Page No		Amount
1	Preliminary and General	26		
2	Taletso Access Control, Lichtenburg Campus	64		
3	Provisional Sums	66		
	SUB-TOTAL		R	
	CONTINGENCIES			
	Allow Three Hundred Thousand Rand (R300 000.00) on the sub-total above for Contingencies to be used at the discretion of the Principal Agent and to be deducted in whole or in part if not required	Item		300,000.00
	SUB-TOTAL		R	
	Value Added Tax (15%)		R	
	Total to the Form of Tender		R	
	Carried to Form of Tender		R	