- 1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>)</b>	SECTION 1				
	BILL NO. 1				
	PRELIMINARIES				
	MEANING OF TERMS "TENDER / TENDERER"				
	Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"				
	PRELIMINARIES				
	The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"				
	PRICING OF PRELIMINARIES				
	Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item				
- 1	Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities				
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT				
	DEFINITIONS				
- 1	No clause Fixed: Time related: Time related:	Item			
	Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

,			•	
- 1	OBJECTIVE AND PREPARATION			
1	A2.0 OFFER, ACCEPTANCE AND PERFORMANCE			
	Clause 2.0			
	Fixed: Value related: Time related:	Item		
2	A3.0 DOCUMENTS			
	Clause 3.0			
	Clause 3.2.1 is amended by replacing"14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
l (	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times			
	Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"			
ļ	No clause			
	Fixed: Value related: Time related:	Item		
3	A4.0 DESIGN RESPONSIBILITY			
	Clause 4.0			
	Clause 4.3 is amended by replacing it with the following:			
ŀ	No clause			
- 1	No clause Fixed: Time related: Time related:	Item		
4	A5.0 EMPLOYER'S AGENTS			
	Clause 5.0			
- 1	Carried Forward Section No. 1			
l	SECTION 1 - PRELIMINARY AND GENERAL BIII No. 1 Preliminaries			

1  D	ESCRIPTION			UNIT	QUANTITY	RATE	AMOUNT
$\perp$							
			Brought Forward				
- 1	lause 5.1.2 is amer 3.5.8	nded to include clauses	s 32.6.3, 34.3, 34.4 and				
	ixed: lated:	_ Value related:	Time	Item			
	6.0 SITE REPRESEN	TATIVE					
	lause 6.0	<del>-</del>					
		_ Value related:	Time	Item			
- 1	lated:	_ value related		item			
6 <b>A</b>	7.0 COMPLIANCE \	WITH REGULATIONS					
c	lause 7.0						
Pr cc th	reliminaries of the ontractor to have t	he opportunity to price alth and Safety Act, Co	in Section C : Specific op sum document for the e for all the requirements of onstruction Regulations and				
	ixed: ·lated:	_ Value related:	Time	Item			
7 A8	8.0 WORKS RISK						
c	lause 8.0						
- 1	ixed: lated:	_ Value related:	Time	Item			
8 <b>A</b> 9	9.0 INDEMNITIES						
CI	ause 9.0						
- 1	xed:	_Value related:	Time	Item			
ar up 10 cc th	nd/or damages of voon the contractor 0.7.2 and 10.7.3. Sontractor or by dec is contract or undexisting between the	whatever nature suffer 's default of his obligat uch losses or damages lucting the same from er any other contract p	ntractor and for this purpose				
- 1	ixed: lated:	_ Value related:	Time	Item			
			Carried Forward				
SE Bi	ection No. 1 ECTION 1 - PRELIM Ill No. 1 reliminaries	INARY AND GENERAL					

- 1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10	Brought Forward				
9	A11.0 LIABILITY INSURANCES				
	Clause 11.0				
	Fixed: Time related: Time related:	Item			
10	A12.0 EFFECTING INSURANCES				
	Clause 12.0				
	Fixed: Value related: Time	Item			
- 1	related:	item			
11	A13.0 No clause				
	14.9 Should the contractor fail to furnish the security in terms of 14.2,				
	the employer, in his sole discretion and without notification to the				
- 1	contractor, is entitled to change the contractor's selected form of				
	security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7				
- 1	shall be applicable				
	Fixed:Time	Item			
	related:				
	EXECUTION				
- [	Give the contractor possession of the site within ten (10) working days				
	of the contractor complying with the terms of 15.1.4				
- 1	Fixed:Time	Item			
	related:				
12	A16.0 ACCESS TO THE WORKS				
	Clause 16.0				
	Fixed:Time	Item			
	related:				
13	A17.0 CONTRACT INSTRUCTIONS				
	Clause 17.0				
	Clause 17.1.11 is amended by deleting the words "and the				
	appointment of nominated and selected subcontractors"				
	Fixed: Value related: Time related:	Item			
	Carried Forward				
- 1	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL				
	Bill No. 1				
	Preliminaries				

NO	DESCRIPTION			UNIT	QUANTITY	RATE	AMOUNT
			Brought Forward				
	related:	Value related:	Time	Item			
	Telateu.						
14	A18.0 SETTING OU	T OF THE WORKS					
	Clause 18.0						
	Fixed:	Value related:	Time	Item			
	related:						
15	A19.0 ASSIGNMEN	ІТ					
	Clause 19.0						
	Fixed:	Value related:	Time	Item			
	related:		<del></del>				
16	A20.0 NOMINATED	O SUBCONTRACTORS					
	Clause 20.0						
	Note: See item B9.	nended by replacing it wit 1 hereinafter for adjustm tractors executing work a					
	Fixed: related:	Value related:	Time	Item			
17	A21.0 SELECTED SU	JBCONTRACTORS					
	Clause 21.0						
	Clause 21 is amend	ded by replacing it with:					
	No clause						
	Fived:	Value related:	Time	Item			
	related:	value relateu	111110	Item			
18	A22.0 EMPLOYER'S	S DIRECT CONTRACTORS					
	Clause 22.0						
	Eivod:	Value related:	Timo	Itom			
	related:	value related:	rime	Item			
19	A23.0 CONTRACTO	OR'S DOMESTIC SUBCON	TRACTORS				
	Clause 23.0						
	  Fixed:	Value related:	Time	Item			
	related:						
			Carried Forward	1			
	Section No. 1						
		MINARY AND GENERAL					
	Bill No. 1						

DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought Forwa	rd			
COMPLETION				
A24.0 PRACTICAL COMPLETION				
	14.5.55			
related: Value related: Time	Item			
A25.0 WORKS COMPLETION				
Clause 25.0				
Fixed: Value related: Time	Item			
related:				
A26.0 FINAL COMPLETION				
Clause 26.0				
Clause 26.1.2 is amended by inserting "#" next to 26.1.2				
Fixed: Value related: Time	Item			
related:				
A27.0 LATENT DEFECTS LIABILITY PERIOD				
Clause 27.0				
Fixed: Value related: Time	Item			
	Item			
Fixed: Value related: Time related:	Item			
Carried Forwa	rd			
SECTION 1 - PRELIMINARY AND GENERAL				
Bill No. 1 Preliminaries				
	COMPLETION  A24.0 PRACTICAL COMPLETION  Clause 24.0  Fixed:	COMPLETION  A24.0 PRACTICAL COMPLETION  Clause 24.0  Fixed:	COMPLETION  A24.0 PRACTICAL COMPLETION  Clause 24.0  Fixed:	Brought Forward  COMPLETION  A24.0 PRACTICAL COMPLETION  Clause 24.0  Fixed: Value related: Time   Item related: Time   Item related: Value related: Time   Item related:

- 1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<u> </u>	Brought Forward				
26 A	A30.0 PENALTY FOR NON-COMPLETION				
c	Clause 30.0				
- 1	ixed: Value related: Time elated:	Item			
<u>P</u>	PAYMENT				
	Payment shall be subject to the employer giving the contractor a tax nvoice for the amount due				
- 1	ixed: Value related: Time elated:	Item			
27 <b>A</b>	332.0 ADJUSTMENT TO THE CONTRACT VALUE				
c	Clause 32.0				
- 1	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the ollowing at the end of the sentence: due to no fault of the contractor				
- 1	ixed: Value related: Time elated:	Item			
28 <b>A</b>	A33.0 RECOVERY OF EXPENSE AND LOSS				
c	Clause 33.0				
- 1	Fixed: Value related: Time elated:	Item			
29 <b>A</b>	A34.0 FINAL ACCOUNT AND FINAL PAYMENT				
c	Clause 34.0				
c	Clause 34.1 is amended by removing "#" next to 34.1				
c	Clause 34.2 is amended by inserting "#" next to 34.2				
fi	Clause 34.8 is amended by deleting the words "where security as a ixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"				
"	Clause 34.13 is amended by replacing "seven (7) calendar days" with twenty-one (21) calendar days" and deleting the words "subject to he employer giving the contractor a tax invoice for the amount due"				
F	ixed: Value related: Time	Item			
- 1	elated:  Carried Forward				
S B	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
+	Drought Forward				
	Brought Forward				
0	A35.0 PAYMENT TO OTHER PARTIES				
ŀ	Clause 35.0				
- 1	Fixed: Value related: Time related:	Item			
1	CANCELLATION				
1	A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT				
	Clause 36.0				
	Clause 36.1 is amended by the addition of the following clauses:				
- 1	36.1.3 refuses or neglects to comply strictly with any of the conditions of contract				
П	36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa				
- 1	36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract				
	Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"				
	36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever				
,	Clause 37.0 is amended by the addition of the following clause: 37.5  Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever				
- 1	Fixed: Value related: Time related:	Item			
	Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

- 1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
) 	Brought Forward				
- 1	38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any				
	reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself				
- 1	from the site. The contractor shall not be entitled to refuse to				
	withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever				
	Fixed:Time	Item			
	related:				
32	A39.0 CANCELLATION - CESSATION OF THE WORKS				
- 1	Clause 39.0				
	Clause 39.3.5 is amended by the addition of the following at the end of the sentence:				
- 1	within one hundred and twenty (120) working days of completion of				
- 1	such a report Fixed: Time	Item			
	related:				
	DISPUTE				
33	A40.0 DISPUTE SETTLEMENT				
	Clause 40.0				
	Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"				
	Clause 40.6 is amended by removing the reference to:				
	No clause				
- 1	Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:				
	Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs				
	Fixed:Time	Item			
	related: SUBSTITUTE PROVISIONS				
34	A41.0 STATE CLAUSES				
	Clause 41.0				
	Fixed:Time	Item			
	related:				
	Carried Forward Section No. 1				
	SECTION 1 - PRELIMINARY AND GENERAL				
- 1	Bill No. 1 Preliminaries				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Fo	rward			
	CONTRACT VARIABLES				
35	A42.0 THE SCHEDULE (DPW-04EC)				
	Clause 42.0 Tenderers are referred to the Contract Data DPW-04 for variables pertaining to this contract	(EC)			
	Fixed: Value related: Time related:	Item			
	SECTION B: JBCC PRELIMINARIES				
	B1.0 DEFINITIONS AND INTERPRETATION				
36	B1.1 Definitions and interpretation				
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section				
	Fixed: Value related: Time related:	Item			
	B2.0 DOCUMENTS				
37	B2.1 Checking of documents				
	Fixed: Value related: Time related:	Item			
38	B2.2 Provisional bills of quantities				
	Fixed: Value related: Time related:	Item			
39	B2.3 Availability of construction documentation				
	Fixed: Value related: Time related:	ltem			
40	B2.4 Interests of agents				
	Fixed: Value related: Time related:	Item			
41	B2.5 Priced documents				
	Fixed: Value related: Time	ltem			
	related: Carried Fo	rward			
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

- 1	DESCRIPTION			UNIT	QUANTITY	RATE	AMOUNT
0			Brought Forward				
42	B2.6 Tender submission						
	Clause 2.6 is amended by rep of Offer and Acceptance DPV		Tender" with "Form				
	Fixed:Value re	elated:	Time	Item			
	B3.0 THE SITE						
43	B3.1 Defined works area						
	Fixed:Value re	elated:	Time	Item			
44	B3.2 Geotechnical investigat	ion					
	Fixed: Value re related:	elated:	Time	Item			
45	B3.3 Inspection of the site						
	Fixed:Value re	elated:	Time	Item			
46	B3.4 Existing premises						
	Fixed:Value re	elated:	Time	Item			
47	B3.5 Previous work - dimens	ional accuracy					
- 1	Fixed:Value rerelated:	elated:	Time	Item			
48	B3.6 Previous work - defects						
- 1	Fixed:Value re	elated:	Time	Item			
49	B3.7 Services - known						
	Fixed:Value re	elated:	Time	Item			
50	B3.8 Services - unknown						
	Fixed:Value re	elated:	Time				
			Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY A Bill No. 1 Preliminaries	ND GENERAL					

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<u> </u>	Brought Forward				
	_	Item			
51	B3.9 Protection of trees				
	Fixed: Value related: Time	Item			
	related:	itein			
52	B3.10 Articles of value				
	Fixed: Value related: Time	Item			
	related:				
53	B3.11 Inspection of adjoining properties				
23	Fixed: Value related: Time	Item			
	related:				
	B4.0 MANAGEMENT OF CONTRACT				
	D4.0 MANAGEMENT OF CONTRACT				
54	B4.1 Management of the works				
	Fixed: Value related: Time	Item			
	related:	ittein			
55	B4.2 Programme for the works				
	Fixed: Value related: Time	Item			
	related:				
56	B4.3 Progress meetings				
	Fixed: Value related: Time	Item			
	related:	itein			
<b>5</b> 7	B4.4 Technical meetings				
٥,	D4.4 Technical meetings				
	Fixed: Value related: Time	Item			
	related:				
58	B4.5 Labour and plant records				
	Fixed: Value related: Time	Item			
	related:	iteiii			
	B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS				
	INSTRUCTIONS				
59	B5.1 Samples of materials				
	Fixed: Value related: Time	Item			
	related:				
	Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL				
	Bill No. 1				
	Preliminaries				

ן יאו כ	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Broug	ht Forward			
	Jioug				
60	B5.2 Workmanship samples				
	Fixed: Value related: Time	Item			
	related:				
61	B5.3 Shop drawings				
	Fixed: Value related: Time	ltem			
	related:	l item			
62	B5.4 Compliance with manufacturers' instructions				
		ltem			
	related:	l telli			
	B6.0 TEMPORARY WORKS AND PLANT				
63	B6.1 Deposits and fees				
	Fixed:Time	Item			
	related:				
64	B6.2 Advertising				
	Fixed: Value related: Time	ltem			
	related:	l tem			
65 	B6.3 Advertising				
		ltem			
	related:	Item			
66 	B6.4 Plant, equipment, sheds and offices				
	Fixed. Volve related: Time	Itom			
	Fixed: Time related: Time related:	Item			
	B6.5 Main notice board				
٥/					
	Fixed: Value related: Time	Item			
	related:				
68	B6.6 Subcontractors' notice board				
	Fixed:Time	Item			
	related:				
	B7.0 TEMPORARY SERVICES				
69	B7.1 Location				
	Fixed: Value related: Time	Item			
	related: Carri	ed Forward			
- 1	Section No. 1				
- 1	SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1				
- 1	Preliminaries				

	DESCRIPTION			UNIT	QUANTITY	RATE	AMOUNT
0_			Brought Forward				
70	B7.2 Water						
	Fixed:related:	_ Value related:	Time	Item			
71	B7.3 Electricity						
	Fixed:related:	_Value related:	Time	Item			
72	B7.4 Telecommunica	ation facilities					
	Fixed:related:	_ Value related:	Time	Item			
73	B7.5 Ablution faciliti	ies					
	Fixed:related:	_Value related:	Time	Item			
	B8.0 PRIME COST AN	MOUNTS					
74	B8.1 Responsibility f	or prime cost amounts					
	Fixed:related:	_Value related:	Time	Item			
	B9.0 ATTENDANCE C	ON N/S SUBCONTRACTORS					
75	B9.1 General attend	ance					
	Fixed:related:	_Value related:	Time	Item			
76	B9.2 Special attenda	nce					
	Fixed:related:	_ Value related:	Time	Item			
77	B9.3 Commissioning	- fuel, water and electricity	у				
	Fixed:related:	_ Value related:	Time	Item			
	B10.0 FINANCIAL AS	PECTS					
78	B10.1 Statutory taxe	es, duties and levies					
	related:	_ Value related:	Time	Item			
79	B10.2 Payment for p						
	Fixed: related:	_ Value related:	Time	Item			
	Section No. 1 SECTION 1 - PRELIMI Bill No. 1	NARY AND GENERAL	Carried Forward				
	Preliminaries						

- 1	ESCRIPTION			UNIT	QUANTITY	RATE	AMOUNT
0			Brought Forward				
80 <b>B1</b>	10.3 Adjustment of prelimin	aries					
	ixed:Value re	lated:	Time	Item			
	lated:		111116	iteiii			
81 <b>B1</b>	10.4 Payment certificate cas	h flow					
   Fi	ixed: Value re	elated:	Time	Item			
	lated:						
<u>B1</u>	11.0 GENERAL						
82 <b>B1</b>	11.1 Protection of the work	s					
Fi	ixed:Value re	elated:	Time	Item			
rel	lated:						
83 <b>B1</b>	11.2 Protection / isolation o	f existing / section	ally occupied works				
Fi	ixed: Value re	elated:	Time	Item			
- 1	lated:						
84 <b>B1</b>	11.3 Security of the works						
Fi	ixed:Value re	elated:	Time	Item			
rel	lated:						
85 <b>B1</b>	11.4 Notice before covering	work					
Fi	ixed:Value re	elated:	Time	Item			
rel	lated:						
86 <b>B1</b>	11.5 Disturbance						
Fi	ixed: Value re	elated:	Time	Item			
rel	lated:						
87 <b>B1</b>	11.6 Environmental disturba	ance					
Fi	ixed:Value re	elated:	Time	Item			
re	lated:						
88 <b>B1</b>	11.7 Works cleaning and cle	aring					
	ixed:Value re	elated:	Time	Item			
rel	lated:						
89 <b>B1</b>	11.8 Vermin						
Fi	ixed:Value re	elated:	Time	Item			
rel	lated:						
90 <b>B1</b>	11.9 Overhand work						
- 1	ixed:Value re	elated:	Time	Item			
rel	lated:		Carried Forward				
	ection No. 1						
- 1	ECTION 1 - PRELIMINARY AN II No. 1	ID GENERAL					
- 1	eliminaries						

EM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Donalds Farmand				
	Brought Forward				
91	B11.10 Instruction manuals and guarantees				
	Fixed:Time	Item			
	related:				
92	B11.11 As built information				
	Fixed:Time	Item			
	related:				
93	B11.12 Tenant installations				
	Fixed: Value related: Time	Item			
	related:				
	B12.0 SCHEDULE OF VARIABLES				
94	B12.1 Schedule of variables				
	Fixed: Value related: Time	Item			
	related:				
	SECTION C: SPECIFIC PRELIMINARIES				
	Section C contains specific preliminary items which apply to this				
	contract except where N/A (Not Applicable) appears against an item				
95	C1.0 CONTRACT DRAWINGS				
	* Select relevant paragraph and delete whichever is not applicable				
	depending on whether the contract is based on a bills of quantities or				
	lump sum document				
	* The drawings issued with the tender documents do not comprise the				
	complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint				
	himself with the nature and extent of the works and the manner in				
	which they are to be executed				
	Carried Forward Section No. 1				
	SECTION 1 - PRELIMINARY AND GENERAL				
	Bill No. 1 Preliminaries				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	* A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed  Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent				
	Fixed: Value related: Time related:	Item			
96	C2.0 GENERAL PREAMBLES				
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used				
	Fixed: Value related: Time related:	Item			
97	C3.0 TRADE NAMES				
	Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders				
	If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for				
	Fixed: Value related: Time related:	Item			
98	C4.0 IMPORTED MATERIALS AND EQUIPMENT				
	Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)				
	Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)				
	Fixed: Value related: Time related:	Item			
99	C5.0 VIEWING THE SITE IN SECURITY AREAS				
	The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes				
	Fixed: Value related: Time related:	Item			
100	C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS				
	As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account				
	Fixed: Value related: Time related:	Item			
101	C7.0 ENTRANCE PERMITS TO SECURITY AREAS				
	As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer				
	Fixed: Value related: Time related:	Item			
102	C8.0 SECURITY CHECK OF PERSONNEL				
	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified				
	In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works				
	Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

- 1	SCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<u> </u>	Brought Forward				
Fiv	ked: Value related: Time	Item			
- 1	ated:	iteiii			
03 <b>C9.</b>	.0 PROHIBITION ON TAKING OF PHOTOGRAPHS				
to s any or o	terms of article 119 of the Defence Act, 44 of 1957, it is prohibited sketch or to take photographs of any military site or installation or y building or civil works thereon or to be in possession of a camera other apparatus used for taking of photographs except when thorized thereto by or on behalf of the Minister				
	e same prohibition is also applicable to all correctional institutions in ms of article 44.1(e) of the Correctional Services Act 8 of 1959				
Fixe	ed: Value related: Time	Item			
- 1	ated:				
.03 <b>C9.</b>	.0 PROHIBITION ON TAKING OF PHOTOGRAPHS				
In t	terms of article 119 of the Defence Act, 44 of 1957, it is prohibited				
	sketch or to take photographs of any military site or installation or				
	y building or civil works thereon or to be in possession of a camera				
- 1	other apparatus used for taking of photographs except when				
aut	thorized thereto by or on behalf of the Minister				
- 1	e same prohibition is also applicable to all correctional institutions in ms of article 44.1(e) of the Correctional Services Act 8 of 1959				
- 1	ed: Time ated:	Item			
C10	0.1 AWARENESS CHAMPION				
Se	election, appointment, briefing and making available of an				
Aw	vareness Champion including provision of all relevant services, all in cordance with the HIV/AIDS Specification				
Eiv.	ed: Value related: Time	Item			
- 1	ated:	пеш			
C10	0.2 AWARENESS WORKSHOPS				
by traction courses	lection and appointment of a competent Service Provider approved the principal agent, provision of a Service Provider Workshop Pland a suitable venue, conducting of awareness workshops by means of ditional and/or modern multi-media techniques, including follow-up curses, making available all tuition material and performing sessment procedures, all in accordance with the HIV/AIDS ecification				
I .	ed:Time	Item			
rela	ated: Carried Forward				
- 1	ction No. 1				
- 1	CTION 1 - PRELIMINARY AND GENERAL				
Bill	l No. 1				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NU	Brought Forward				
	C10.3 POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification				
	Fixed:Time related:Time related:	Item			
	C10.4 ACCESS TO CONDOMS				
	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification				
	Fixed: Value related: Time related:	Item			
104	C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT				
	The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)				
	It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document				
	The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total noncompliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, 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 of whatsoever nature, including interest, due to such delay of payment				
	Provision for pricing of the Occupational Health and Safety Act, Construction Regulations 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				
	Fixed: Time related:  Carried Forward	Item			
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

EM IO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought Forward				
105	C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)  The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the				
	appropriate form, prior to commencement of work  Fixed:Time	ltem			
	related:  C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)				
	The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5				
	Fixed: Value related: Time related: C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 5.3 f)	Item			
	The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work				
	Fixed: Value related: Time related:	Item			
108	C11.4 HEALTH AND SAFETY FILE ( Construction Regulation 5.7)				
	The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the principal agent				
	Fixed: Value related: Time	Item			
	related: Carried Forward				
- 1	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
109	C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 6)				
	The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work. The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 6				
	Fixed: Value related: Time related:	Item			
110	C11.6 RISK ASSESSMENT AND SAFETY POLICY (Construction Regulation 7)				
	Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection. The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 7				
	Fixed: Value related: Time related:	Item			
111	C11.7 SIGNIFICANT HAZARDA IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS				
	The contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants				
	Fixed: Value related: Time related:	Item			
	Carried Forward Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
112	C11.8 ADDITIONAL FINANCIAL PROVISION				
	The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided				
	Fixed: Value related: Time related:	Item			
113	C11.9 FALL PROTECTION PLAN (Construction Regulation 8)				
	The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file F				
	ixed: Value related: Time related:	Item			
114	C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 8.2(b))  The contractor and sub-contractors shall before commencing any				
	construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file				
	Fixed: Value related: Time related:	Item			
115	C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT (Construction Regulation 21)				
	The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file				
	Fixed: Value related: Time related:	Item			
	Carried Forward				
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
116	C11.12 TRAINING (Construction Regulation 8 (c))				
	The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees.  This program shall from part of the health and safety plan				
	Fixed: Value related: Time related:	Item			
117	C11.13 DEMOLITION WORK (Construction Regulation 12)				
	The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.				
	Fixed:Time related:Time related:	Item			
118	C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Regulation)				
	The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for; NOTIFICATION OF ASBESTOS PROCESSINGPERSONAL PROTECTIVE EQUIPMENTPACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITEDEMOLITION WORK OF SHEETSLABELLING AND INFORMATION				
	Fixed:Time related:Time related:	Item			
	Carried Forward Section No. 1				
	SECTION NO. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

VI )	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
'	Brought Forward				
	SECTION SUMMARY - SECTION 1 - PRELIMINARY AND GENERAL	Page No			
1	Preliminaries	24			

DESCRIPTION	UNIT	QUANTITY	RATE	AMOU
SECTION NO. 2				
BILL NO. 1				
OCCUPATIONAL HEALTH & SAFETY AND ENVIRONMENTAL				
MANAGEMENT				
Failure, by the Tenderer, to price the items indicated below individually or per item will result in the Tender being deemed non-				
responsive. The legal requirements contemplated in the Construction				
Regulations as stated below:				
(CR) 5(1)(g) "A Client must ensure that potential principal contractors				
submitting tenders, have made adequate provision for the cost of				
health and safety measures"				
CR 5(1)(h) "A client must ensure that principal contractor to be				
appointed has the necessary competencies and resources to carry out				
the construction work safely"				
Shall apply and will be used to motivate the disqualification of the				
Tender. The contractor's attention is further drawn to Section 41 of				
the Occupational Health and Safety Act No. 85 Of 1993: This Act not				
affected by agreements				
Subject to the provisions of sections 10 (4) and 37 (2), a provision of				
this Act or a condition specified in any notice or direction issued there				
under or subject to which exemption was granted to any person under				
section 40, shall not be affected by any condition of any agreement,				
whether such agreement was entered into before or after the commencement of this Act or before or after the imposition of any				
such condition, as the case may be.				
Note to Principal Contractor				
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993,				
Construction Regulations 2014, other relevant Regulations and				
Standards as well as project specific Health &Safety specifications.				
After pricing of the health and safety bill of quantities, the Principal				
Contractor must sign the Certificate of Acquaintance as evidence that he is au fait regarding the contents, obligations and demands of the				
Occupational Health and Safety Act No. 85 of 1993, Construction				
Regulations 2014, other relevant Regulations and Standards as well as				
project specific Health &Safety specifications. Failure, by the Tenderer,				
to sign the Certificate of Acquaintance may result in the Tender being				
deemed non-responsive.				
Carried Forward				
Section No. 2				
SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT				1

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>NO</b>	Brought Forward Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director of his/her representative	Item	1		
2	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Item	1		
3	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	Months	3		
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Months	3		
5	Provision of full time Health and Safety Officer for the entire construction period.	Months	3		
	Carried Forward Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT Bill No. 1				
	OHS and Environmental Management				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the sitespecific risk assessments:				
7	Hard hats (high density polyethylene & 6-point lining)	No	20		
8	Vests	No	10		
9	Safety boots / shoes (steel-toe)	No	10		
10	Safety gloves	No	10		
11	Ear plugs/ muffs	No	5		
12	Dust mask(at least FF2 type)	No	5		
13	Respirators	No	1		
14	Cloth Masks	No	1		
15	Face shields	No	1		
16	FFP1 surgical masks	No	25		
17	Safety goggles	No	5		
18	Temporary warning signs and symbols	No	1		
19	Allow for pre-employment medical examinations	Item	1		
20	Allow for exit medical examinations	Item	1		
21	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, hackfilling etc	Item			
	Carried Forward to Summary of Section No. 2				
	Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT Bill No. 1				
	OHS and Environmental Management				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	SECTION NO. 2				
	BILL NO. 2				
	HEALTH & SAFETY EDUCATION AND ENVIRONMENTAL				
	MANAGEMENT				
1	Allow for all COVID-19 awareness training	Months	3		
	COVID-19 HEALTH AND SAFETY WORK PRACTICES				
2	Symptom screening of all site visitors upon arrival	Months	3		
	Carried Forward to Summary of Section No. 2				
1	Section No. 2				
	SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT Bill No. 2				
	Health & Safety Education and Environmental Management				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION SUMMARY - SECTION 2 - OHS AND ENVIROMENTAL	Page No			
	MANAGEMENT				
1	OHS and Environmental Management	27			
2	Health & Safety	29			
	Carried to Final Summary				
	Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT				

M	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
$\overline{}$	SECTION NO. 3				
	BILL NO. 1				
	DEMOLITION OF NON COMPLIANT ACCESS RAMPS				
	<u>View site</u>				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	General Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site				
	Breaking up and removing Ramps	m2	5		
	Steps (valleupus	m2	66		
٥	Slabs/walkways	m2	00		
	Taking down and removing				
4	Non compliant existing fence	m	50		
	Demolishing and removing				
5	One brick boundary or yard walls n.e 1,5m high	m	50		
6	Excavation in earth not exceeding 2m deep to remove foundations	m3	25		
	Extra over bulk excavations in earth for breaking up and removing				
7	Extra over for removal of brickwork	m3	25		
	Carried Forward				
	Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS Bill No. 1 Demolitions				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
0	Brought forward				
8	Extra over for removal of unreinforced concrete	m3	18		
9	Extra over for removal of reinforced concrete	m3	18		
	Extra over all excavations for carting away				
10	Surplus material from demolitions and/or stock piles of rubble on site, to a dumping site to be located by the contractor	m3	25		
11	Clean out pit latrine by desludging including removal of all debris and waste including soild waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat	item	12		
	Carried Forward to Summary of Section No. 3				
	Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS Bill No. 1				
	Demolitions				

DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN
SECTION NO. 3				
BILL NO. 2				
ALTERATIONS				
View site				
Before submitting his tender the tenderer shall visit the site and satisfy				
himself as to the nature and extent of the work to be done and the				
value of the materials salvageable from the alterations. No claim for				
any variations of the contract sum in respect of the nature and extent				
of the work or of inferior or damaged materials will be entertained				
Explosives				
No explosives whatsoever may be used for alteration purposes unless				
otherwise stated				
<u>General</u>				
The contractor shall carry out the whole of the works with as little				
mess and noise as possible and with a minimum of disturbance to				
tenants in the building and to adjoining premises and their tenants. He				
shall provide proper protection and provide, erect and remove when				
directed, any temporary tarpaulins that may be necessary during the				
progress of the works, all to the satisfaction of the principal agent				
Ettings frames linings which are to be re used shall be thereumbly				
Fttings, frames, linings, which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging,				
cramping up, re-wedging as required and making good cramps,				
dowels,, and oiling, adjusting and repairing ironmongery as necessary,				
replacing any glass damaged in removal or subsequently and stopping				
up all nail and screw holes with tinted plastic wood to match timber,				
unless otherwise described. Re-painting or re-varnishing is given				
separately				
With regard to building up of openings in existing walls, cement				
screeds and pavings, granolithic, tops of walls, shall be levelled and				
prepared for raising of brickwork				
Making good of finishes shall include making good of the brick and				
concrete surfaces onto which the new finishes are applied, where				
necessary				
The contractor will be required to take all dimensions affecting the				
existing buildings on the site and he will be held solely responsible for				
the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings)				
niew items (uoois, wiiiuows, littiligs)				
Carried Forward				
Section No. 3				
SECTION 3 - DEMOLITIONS & ALTERATIONS				
Bill No. 2				
Alterations				1

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
INO	Brought Forward				
	REMOVAL OF EXISTING WORK				
	Taking out and removing piping, sanitary fittings, including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
1	50mm Waste pipe.	m	3		
2	Remove VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).	No	3		
	NEW SANITARY FITTINGS				
	Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins. Product and colour to Principal Agent's approval:				
3	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors	No	3		
	Carried Forward Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS				
	Bill No. 2 Alterations				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<u>o</u>	Brought Forward				
3	SS-TU101-1830R Flat back stainless steel school trough urinal wal mountedl	No	2		
4	Remove and replace Urinal with new	No	5		
	NEW SANITARY PLUMBING				
	PVC waste or vent pipes and fittings:				
5	50mm Waste pipe	No	3		
	Extra for:				
6	50mm Bend.	No	2		
7	50mm Access bend.	No	1		
	NEW BATHROOM FITTINGS				
	Satin Grey Plastics or equal approved				
7	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	8		
	BOLTS:				
8	50mm Alu/Metal holder bat to hold vent pipes against brick wall	No	57		
	ALLOWANCE FOR TEMPORARY TOILETS				
9	Allow for temporary toilets for use during construction	Item	1		
	<u>METALWAORK</u>				
	STEEL BALUSTRADING				
	GALVANISED STEEL BALUSTRADING				
	Welded balustrading to walkways				
10	Allow for Raking balustrading 1000mm high, complete with 50mm diameter handrail, fixed to detail	m	15		
	ON METAL SURFACES				
	One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel				
11	To steel balustrades (both sides measured)	m²	70		
	Carried Forward to Summary of Section No. 3				

M DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS Bill No. 2				
Alterations				
SECTION SUMMARY - SECTION 3 - DEMOLITIONS & ALTERATIONS	Page No			
1 Demolitions	32			
2 Alterations	35			
Carried to Final Sum				

DESCRIPTION	UNIT	QUANTITY	RATE	IUOMA
Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS				
SECTION NO. 4				
BILL NO. 1				
<u>EARTHWORKS</u>				
SUPPLEMENTARY PREAMBLES				
General				
The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
Nature of ground				
The required bulk earthworks and levelling have been measured under Section 2 (Bulk Earthworks) of these Bills of Quantities and would be complete at the time these foundation works are executed. The nature of the ground is thus compacted fill (as per latest Engineer's drawing) and where foundation excavations are deeper the nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock".				
<u>Subterranean water</u>				
No subterranean water is expected				
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.				
Filling				
Notwithstanding the reference to prescribed multiple handling in clause 2 page 10 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.				
Carried Forward				
Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1				
Building works				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
)	Brought Forward				
	Testing				
	Prices for filling are to include for all necessary density tests in accordance with SABS 1200D and as prescribed by the Engineer and/or Principal Agent.				
	SITE CLEARANCE				
	Site clearance				
1	Stripping average 170mm thick layer of top soil and stockpiling on site	m2	50		
	EXCAVATION, FILLING				
	EXCAVATIONS				
	Excavation in compacted earth not exceeding 2m deep				
2	Trenches	m3	29		
	Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density				
3	Exceeding 1m and not exceeding 2m deep for building retaining walls,	m3	30		
4	Extra over for excavation in soft rock	m3	12		
5	Extra over for excavation in hard rock	m3	9		
	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	14		
	Risk of collapse of excavations				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	85		
	Keeping excavations free of water				
8	Keeping excavations free of all water other than subterranean water	Item	1		
	<u>De-watering of seepage water and water from other subterranean</u> sources in excavations				
9	Provide pump with including maintenance and removal as per Principal Agents Approval	No	2		
	Carried Forward				
	Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	Compaction of ground surfaces				
10	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	48		
	FILLING				
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:				
11	Backfilling to trenches	m3	14		
	Selected earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage approximately 5km from the perimeter of the excavations or stock piles, compacted to 95% Mod AASHTO density				
12	Backfilling behind retaining walls	m3	30		
13	Over site to make up levels	m3	12		
	Earth filling supplied by the contractor compacted to 90% Mod  AASHTO density				
14	Landscape mounds, berms,	m3	12		
	Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO				
15	Over site to make up levels	m3	2		
	Prescribed density tests on filling				
16	Modified AASHTO Density test	No	8		
	SUBSOIL DRAINAGE				
	Slotted PVC-U flexible drainage pipes				
	Earth filling 300 x 300mm section of 20mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:				
17	20mm Stone.	m3	3		
	Membrane				
	Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.  Carried Forward	m2	54		
	Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.				
19	110mm uPVC pipe.	m	60		
	Extra over fittings				
20	110mm Tee.	No	15		
21	110mm Y junction.	No	15		
	SOIL POISONING				
	Soil insecticide in accordance with SANS 5859				
22	Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	135		
23	To bottoms and sides of trenches	m2	85		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	The Concrete works shall be in accordance with the Engineer's specifications as per Annexures "Part D.9 - Concrete Specifications" and "Part D.10 - Industrial Floor Specifications" appended hereto. The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.				
	The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
	Components cast against excavated surfaces have not been measured or described separately and the Contractor is to ensure adequate allowance for casting against exacated surfaces are made within the relevant items.				
	Concrete All exposed sharp corners to be chamfered 25 x 25mm unless otherwise indicated				
	Carried Forward				
	Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

EM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10	Brought Forward				
	Cost of tests				
	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 provisionally and separately)				
	Descriptions of form work 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				
	<u>Finishing</u>				
	Finishing the surfaces of surface beds and slabs level and smooth to receive screed, grano or any other finish are deemed to be included in the rate for the surface bed or slab.				
	Mesh reinforcement				
	Mesh reinforcement is measured net, contractor to take condideration of lapping				
	UNREINFORCED CONCRETE CAST ON/IN FORMWORK				
	15MPa/20mm concrete in:				
24	Surface blinding under footings and bases	m3	2		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
25	Stripfootings	m3	14		
	TEST CUBES				
26	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines				
27	Surface beds and ramps	m2	5		
	Carried Forward Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought Forward				
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
28	Strip footing and ramps (Provisional)	m2	4		
	MOVEMENT JOINTS				
	Isolation joints formed of 20 x 12mm deep silicone sealant, backing rope and closed cell polyurethane joint former				
29	Between concrete surface bed and/or raft foundation and brick walls.	m	85		
	Saw-cut joints				
30	3 x 50mm deep Saw-cut joints in top of concrete filled with an approved semi-rigid sealer	m	25		
	REINFORCEMENT				
	Provision for high tensile steel reinforcement				
31	Varying diameters in bases and structural concrete work	t	1		
	MASONRY SUPPLEMENTARY PREAMBLES BRICKWORK				
	<u>General</u>				
	The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
	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 timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing				
	Carried Forward Section No. 4				
	SECTION No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	BRICKWORK				
	FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all purpose cement):				
32	One brick walls	m2	14		
	<u>SUPERSTRUCTURE</u>				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all purpose cement). Open perp.  @ 1540 centres parallel with drainage pipe				
33	One brick walls	m2	86		
	FACE BRICKWORK				
	Rustgold FBS/Qunu Travertine clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement)				
34	One brickwall faced on both sides.	m2	95		
	Brick-on-edge header course copings of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:				
35	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	85		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
36	150mm Wide reinforcement built in horizontally every second course	m	560		
	Carried to Final Summary				
	Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

1 DE	ESCRIPTION	UNIT	QUANTITY	RATE	AMOUN
	ECTION NO. 5				
BIL	LL NO. 1				
ST	ORMWATER				
su	JPPLEMENTARY PREAMBLES				
Ge	<u>eneral</u>				
	nese quantities are measured in accordance with SANS 1200 pecifications.				
be	ne Contractor is to notify the Principal Agent immediately if a conflict etween the Engineer's Specification, Architectural Drawings and/or ese Bills of Quantities are found.				
for Qu an	ne quantities are provisional and will be re-measured upon impletion of the works. The Contractor shall not use these quantities or ordering of materials. The Contractor must immediately notify the quantity Surveyor if discrepancies are found between the quantities ad/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
- 1	ne total amount for the works should be included in the Tender nount.				
co	DNCRETE STORMWATER DISH DRAIN				
	CCAVATIONS  cavation in compacted earth not exceeding 2m deep				
1 Ex	cavation in earth not exceeding 2m deep for trenches	m3	12		
2 Su	tra over all excavations for carting away orplus material from excavations and/or stock piles on site, to a orpling site to be located by the contractor	m3	4		
Ris	sk of collapse of excavations				
3 Ris	sk of collapse of sides of excavations not exceeding 1,5m deep	m2	10		
4 Co inc ma	ompaction of ground surfaces ompaction of natural or excavated ground surface under floors, cluding scarifying for a depth of 150mm, breaking down oversize aterial, adding suitable material where necessary and compacting to 8% Mod AASHTO density	m2	24		
FIL	LLING				
- 1	orth filling (G7 material) supplied by the contractor in layers not sceeding 125mm thick and compacted to 98% Mod AASHTO density:				
	Carried Forward				
SE	ection No. 5 ECTION 5 - EXTERNAL WORKS II No. 1				

- 1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
0	Brought Forward				
5	Backfilling to trenches	m3	2		
	Over site of Selected Subgrade G5 material in accordance with SABS 1  200 DM in layers not exceeding 150mm thick and compacted to 95%  Mod AASHTO density.				
6	Backfilling to Trenches	m3	2		
- 1	Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO				
7	Over site to make up levels	m3	4		
	Prescribed density tests on filling				
8	Modified AASHTO Density test	No	2		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
9	25MPa/19mm reinforced concrete in bottoms and sides	m3	4		
	CONCRETE SUNDRIES				
- 1	Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines				
10	Finishing concrete bottoms smooth with a steel trowel to falls	m2	24		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
- 1	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	10		
12	Smooth formwork to sides above sloping bottoms	m2	10		
	MOVEMENT JOINTS				
	Isolation joints formed of 10 x 12mm deep silicone sealant, backing rope and closed cell polyurethane joint former				
- 1	Expansion joints with soft board through concrete bottoms not exceeding 300mm high	m	10		
	Expansion joints with soft board through concrete sides of channels not exceeding 300mm wide	m	10		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	REINFORCEMENT				
15	Type 617 fabric reinforcement in concrete placed 40mm from the Top	m2	24		
16	Angle section galvanised steel bearers with flat section bent lugs each welded, including embedding in concrete	kg	30		
17	Extra over for mitred and welded L-intersection	No	2		
	CONCRETE STORMWATER V DRAIN				
	EXCAVATIONS				
	Excavation in compacted earth not exceeding 2m deep				
18	Excavation in earth not exceeding 2m deep for trenches	m3	23		
	Risk of collapse of excavations				
19	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	44		
	Compaction of ground surfaces				
20	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	47		
	FILLING				
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:				
21	Backfilling under floors	m3	7		
	Over site of Selected Subgrade G5 material in accordance with SABS 1  200 DM in layers not exceeding 150mm thick and compacted to 95%  Mod AASHTO density.				
22	under floors	m3	7		
	Prescribed density tests on filling				
23	Modified AASHTO Density test	No	3		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	REINFORCED CONCRETE				
	Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer				
24	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface	m	55		
25	Extra for 700mm angle	m	10		
26	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines				
27	Finishing concrete bottoms smooth with a steel trowel to falls  TEST CUBES	m2	47		
28	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater				

EM IO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
U	Brought Forward CULVERTS				
	Supply and Lay Concrete Pipe Culverts on class B bedding:				
	Class 50-D-load pipes with U joints:				
20					
29	450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction.	m	2		
	HEADWALLS EXCAVATIONS				
	Excavation in compacted earth not exceeding 2m deep				
	Excavation in earth not exceeding 2m deep for trenches	m3	3		
30	Risk of collapse of excavations				
	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	2		
31	Extra over all excavations for carting away				
	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	1		
32	Keeping excavations free of water				
	Keeping excavations free of all water other than subterranean water	Item	1		
33	Compaction of ground surfaces				
	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	4		
34	FILLING				
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:				
	Backfilling to trenches	m3	1		
35	Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.				
	Under floors	m3	1		
36	Prescribed density tests on filling				
	Modified AASHTO Density test  Carried Forward	No	1		
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
37	REINFORCED CONCRETE				
	25MPa/19mm concrete				
	25Mpa/19mm Reinforced concrete in bottom slabs and footings	m3	1		
38	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines				
	Finishing concrete bottoms smooth with wood float	m2	2		
39	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	5		
40	Rough formwork to sides				
	REINFORCEMENT				
	Weld Mesh Ref 193 in Concrete bottom slab	m2	5		
41	MASONRY				
	SUPPLEMENTARY PREAMBLES				
	<u>SUPERSTRUCTURE</u>				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all purpose cement). Open perp.  @ 1540 centres parallel with drainage pipe				
42	One brick walls	m2	2		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
43	150mm Wide reinforcement built in horizontally every second course	m	12		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	<u>PLASTERING</u>				
	EXTERNAL PLASTER				
	Cement plaster wood floated, on brickwork				
44	On walls	m2	2		
	Gabion Mattress				
45	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2		
	<u>Manholes</u>				
46	Manholes to engineers specification	No	5		
	Carried Forward to Summary of Section No. 5				
	Section No. 5				
	SECTION 5 - EXTERNAL WORKS Bill No. 1				
	Stormwater				

И   )	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN
	SECTION NO. 5				
- 17	BILL NO. 2 APRONS				
	SUPPLEMENTARY PREAMBLES				
-	<u>General</u> These quantities are measured in accordance with SANS 1200 Specifications.				
ŀ	The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.				
1	The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
	The total amount for the works should be included in the Tender amount.				
9	CONCRETE APRONS				
	EXCAVATIONS				
	Excavation in compacted earth not exceeding 2m deep Excavation in earth not exceeding 2m deep for trenches	m3	15		
ļ	Extra over all excavations for carting away				
	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Risk of collapse of excavations	m3	4		
3	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	24		
4   i	Compaction of ground surfaces  Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	40		
   <u>!</u>	FILLING				
- 11	Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:				
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 2 Aprons				

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
0	Brought Forward				
5	Under floors	m3	6		
	Over site of Selected Subgrade G5 material in accordance with SABS 1				
	200 DM in layers not exceeding 150mm thick and compacted to 95%  Mod AASHTO density.				
-					
6	Under floors	m3	6		
	Coarse river sand filling supplied by the contractor:				
7	Under floors Prescribed density tests on filling	m3	1		
8	Modified AASHTO Density test	No	3		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
9	Surface beds cast in panels on waterproofing	m3	4		
10	Edge thickening	m3	2		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a power float with high				
	quality "ABC Plate" floor hardener applied at a rate of 7kg/m² in accordance with the Engineer's guidelines				
	accordance with the Engineer's guidennes				
11	Finishing concrete bottoms smooth with a steel trowel to falls	m2	40		
	TEST CUBES				
12	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
13	Formwork to edges, risers, ends and reveals not exceeding 300mm	m2	6		
	wide or high				
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
14	12mm Joints not exceeding 300mm high	m	40		
	Two-part grey polysulphide sealing compound including backing cord,				
	bond breaker, primer, etc				
15	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	27		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS				
	Bill No. 2 Aprons				
	7410110				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
.,,	Brought Forward				
	REINFORCEMENT				
16	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40		
	<u>WATERPROOFING</u>				
47		2	4.4		
17	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured)	m2	44		
	SOAKAWAY				
	EXCAVATIONS				
	Excavation in compacted earth not exceeding 2m deep				
18	Excavation in earth not exceeding 2m deep for holes	m3	16		
	Risk of collapse of excavations				
19	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	16		
	Compaction of ground surfaces				
20	Thoroughly compact backfilling materials	m2	16		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density				
21	Backfilling to holes	m3	8		
	Earth filling with stone material supplied by the contractor:				
22	Under floors	m3	8		
	Coarse river sand filling supplied by the contractor:				
23	Stone (>63mm)	m3	8		
	<u>Membranes</u>				
24	Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces	m2	48		
	<u>Tests</u>				
25	Percolation tests	Item	1		
	Carried Forward to Summary of Section No. 5				
	Section No. 5				
	SECTION 5 - EXTERNAL WORKS Bill No. 2				
	Aprons				

4	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN
	SECTION NO. 5				
	BILL NO. 3				
	<u>WALKWAYS</u>				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
- 1	These quantities are measured in accordance with SANS 1200 Specifications.				
	The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.				
	The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
- 1	The total amount for the works should be included in the Tender amount.				
!	CONCRETE WALKWAY				
	EXCAVATIONS				
	Excavation in compacted earth not exceeding 2m deep				
1	Excavation in earth not exceeding 2m deep for trenches	m3	28		
	Extra over all excavations for carting away				
- 1	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	17		
	Risk of collapse of excavations Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	55		
- 1	Rip and Re - compact insitu material on site compacted to 93% Mod.  AASHTO densitv:				
4	Under floors	m2	66		
	FILLING				
- 1	Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:				
	Carried Forward				
-	Section No. 5 SECTION 5 - EXTERNAL WORKS Walkways				

<u>C</u>	Brought Forward			Í
<u>C</u>				
<u>C</u>	Under floors	m3	8	
2	officer floors	1113	0	
- 1-	Over site of Selected Subgrade G5 material in accordance with SABS 1			
	200 DM in layers not exceeding 150mm thick and compacted to 95%			
	Mod AASHTO density.			
6 L	Under floors	m3	20	
	Coarse river sand filling supplied by the contractor:			
		2		
	Under floors	m3	0	
  F	Prescribed density tests on filling			
		NI-	4	
8 1	Modified AASHTO Density test	No	4	
<u>s</u>	SOIL POISONING			
<u> </u>	Approved brand of anti-termite soil poison applied by a Registered			
<u> </u>	Pest Control Company and guaranteed against termite infestation for			
<u>t</u>	ten years:			
9 T	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal	m2	121	
- 1	approved.			
1	150-175mm Tanalith Treated Gum Pole. poles not allowed to be cut			
- 1	post treatment_			
	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc	No	29	
<u>c</u>	CONCRETE TO WALKWAYS			
	Construction of paving complete			
	25MPa/19mm concrete			
11	Walkways	m3	10	
<u> </u>	Reinforcement (Provisional)			
12 F	REF. 395 fabric reinforcement in concrete infill, strip footings.	m²	66	
I	Test blocks:			
12 1	Making and testing of 150x150x150mm concrete strength test cubes	No	4	
- 1	(Provisional).	140		
E	Expansion joints with bitumen impregnated softboard between_			
	vertical concrete or brick surfaces:			
14 1	12mm Joints not exceeding 300mm high.	m	55	
	Carried Forward			
- 1	Section No. 5			
- 1	SECTION 5 - EXTERNAL WORKS Walkways			

1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
15	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	55		
	Waterproofing under Surface beds				
16	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m²	66		
	Carried Forward to Summary of Section No. 5				
	Section No. 5 SECTION 5 - EXTERNAL WORKS				
	Walkways Bill No. 3				

EM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION NO. 5				
	BILL NO. 4				
	RAMPS				
	Compaction of ground surfaces				
1	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	5		
	FILLING				
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:				
2	Under floors	m3	1		
	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.				
3	Under floors	m3	1		
	Prescribed density tests on filling				
6	Modified AASHTO Density test	No	1		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
7	Ramps, Landings	m3	3		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float:				
8	Surface beds, slabs to falls and currents	m2	5		
	TEST CUBES				
9	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
10	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	4		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Ramps Bill No. 4				

1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	MOVEMENT JOINTS				
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
11	12mm Joints not exceeding 300mm high	m	3		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
12	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3		
	REINFORCEMENT				
13	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	5		
	WATERPROOFING				
14	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured)	m2	5		
	incosticur.				
	Carried Forward to Summary of Section No. 5				
	Section No. 5				
	SECTION 5 - EXTERNAL WORKS Ramps				
	Bill No. 4				

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION NO. 5				
	BILL NO. 5				
	FENCING				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	These quantities are measured in accordance with SANS 1200 Specifications.				
	The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.				
	The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.				
	The total amount for the works should be included in the Tender amount.				
	FENCING				
	Site clearance				
1	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	63		
	Straining wires, fencing and razor wire:				
2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured)	m	252		
3	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	189		
4	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured)	m	63		
	Carried Forward				
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No.5 Fencing				

- 1	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
0	Brought Forward				
	Darks for 1 200 mars high cognitive former				
	Posts for 1 800mm high security fence				
5	60mm Diameter galvanised steel intermediate fencing post 2400mm	m	25		
	long fitted with a pressed steel mushroom cap one end and 150 x 150				
	x 5 mm baseplate at bottom and embedded in and including 350 x 350				
	x 600 mm mass concrete (15 MPa) base				
- 1	100mm Ditto as corner post, fitted with two 50mm diameter	No	2		
- 1	galvanised steel stay set raking and with top end flattened and bolted				
	through post, with post and stay both embedded in mass concrete (15 MPa) hases as last				
7	75mm Ditto as intermediate post - 1 dropper every 3000mm between	No	46		
	standard posts				
8	150mm Ditto as gate post 2 400mm long, fitted with two 50mm	No	2		
	diameter galvanised steel stay set raking and with top end flattened				
	and bolted through post, with post and stay both embedded in mass				
	concrete (15 MPa) bases as last.				
9	12mm Diameter galvanised mild steel straining eye bolt with hook,	No	8		
	threaded portion and two nuts and washers				
10	Form 12mm diameter hole through fence post	No	8		
	<u>Gates</u>				
11	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	2		
12	Security fence single gate, size 1 000 mm wide x 1 800 mm high,	m	1		
- 1	formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot				
	dip galvanised mild steel pipe framing all round with mitred and				
	welded angles and cross braces mullion and transome, scribed and				
	welded into angles and at cross intersections, with two 50 mm				
	diameter nominal bore x 3,25 mm wall thickness security posts each				
	600 mm long with one end welded to top rail of gate and closure plate				
	to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four				
	point core diameter single "kampeon" wires with crimped droppers to				
	security posts as before described; including three strands flat wrap				
	razor barbed tape wire fixed as before described, leaf fitted with three				
	24 mm diameter x 300 mm long eyebolt hinges and stops including all				
	holes, etc., welded or bolted to adjoining galvanised gatepost with and				
	including 500 mm long approved chain spot welded to gate				
	PADLOCKS PADLOCKS				
12	Supply 50 mm "Viro" Padlocks and Keys (or equal approved	m	1		
اد.	Carried Forward	111			
	Section No. 5				
	SECTION 5 - EXTERNAL WORKS				
	Bill No.5				
	Fencing				

l	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
NO	Brought Forward				
	ACCESS DRIVEWAY, ETC.				
	Excavation not exceeding 2m deep				
14	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	35		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
15	Off site to a dumping site to be found by the Contractor.	m³	18		
	Filling supplied by the contractor under driveways				
16	G7 Base course material compacted to 98% Mod AASHTO density	m³	6		
	Rip and Re - compact insitu material on site compacted to 93% Mod.  AASHTO density:				
17	Under floors,etc.	m²	40		
	Approved brand of anti-termite soil poison applied by a Registered  Pest Control Company and guaranteed against termite infestation for				
	ten vears:				
18	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m²	40		
	Supply and installation of gates to match fencing specifications (measured elsewhere) to be fixed flush by specialist according to				
	manufacturer's instruction; including all necessary ironmongery and locking mechanisms				
19	Vehicular entrance gate 6000mm wide complete with motor.	No	1		
	Carried Forward to Summary of Section No. 5				
	Section No. 5 SECTION 5 - EXTERNAL WORKS				
	Bill No.5 Fencing				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
INO	SECTION SUMMARY - SECTION 5 - EXTERNAL WORKS	Page No			
1	Stormwater	50			
2	Aprons	53			
3	Walkways	56			
4	Ramps	58			
5	Fencing	61			
	Carried to Final Summary				
	Section No. 5 SECTION 5 - EXTERNAL WORKS				

SIT CO 1 Pro Lia allo	ECTION NO. 6  LL NO. 1  TE PERSONNEL  DIMMUNITY LIAISON OFFICER  To vide the sum of R22 500.00 for the employment of a Community aison Officer to be employed by the Main Contractor and be paid an lowance of R7 500.00 a month for the duration (3 months)	ltem			
SIT CC 1 Pro Lia allo	TE PERSONNEL  DIMMUNITY LIAISON OFFICER  rovide the sum of R22 500.00 for the employment of a Community aison Officer to be employed by the Main Contractor and be paid an	ltem			
1 Pro Lia alle	OMMUNITY LIAISON OFFICER  rovide the sum of R22 500.00 for the employment of a Community aison Officer to be employed by the Main Contractor and be paid an	ltem			
1 Pro Lia allo	rovide the sum of R22 500.00 for the employment of a Community aison Officer to be employed by the Main Contractor and be paid an	Item			
Lia allo	aison Officer to be employed by the Main Contractor and be paid an	Item	_		
2 All			1	R22 500,00	
	low for Profit on above items	%			
	Carried to Final Summary				
SE Bil	ection No. 6 ECTION 6 - SOCIO ECONOMC DEVELOPMENT II No. 1 te Personnel				

M D	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	ECTION NO. 7				
ВІ	ILL NO. 1				
PI	ROVISIONAL SUMS				
sı	UPPLEMENTARY PREAMBLES				
G	<u>eneral</u>				
sp Se in su te	he following Provisional Amounts are for work to be done by firms of pecialists and will, unless expressly stated otherwise, be regarded as elected Sub-contractors to the Contractor. The Contractor must assist a obtaining tenders and/or quotations from approved firms and ubmit them to the Agent/Representative for his approval. The enderer's attention is drawn to Section 1: Preliminaries for further mplification of Provisional- and Prime Cost Amounts.				
N	ote: All provisional sums are "NETT".				
al of	he profit and attendance on Nominated/Selected Subcontract llowances will be adjusted to take the of actual Final Account values f the respective Subcontracts into account. The adjustment factor will e the percentages calculated with reference to the BoQ allowances.				
<u>Pr</u>	<u>rofit</u>				
w	Where listed the contractor may allow for profit if required. The profit will be adjusted in the same ratio as the adjusted value of the about about 12 when the same ratio as the adjusted value of the about 12 when the same ratio as the adjusted value of the about 12 when the same ratio as the adjusted value of the same ratio as the s				
<u>A1</u>	ttendance				
at cc	Vithout in any way limiting the meaning and interpretation, "general ttendance" on sub-contractors shall include free of charge to the sub-ontractor the following services for the purpose of the relative sub-ontract works:				
οι	) access to the site and to the places where the work is to be carried ut, including the use of any temporary personnel hoists erected by ne Contractor for his own use:				
pł w cc	) the provision of water and lighting and of single and/or three hase electric power to a position within 50 metres of the place where work is to be carried out, but excluding water, fuel and power for commissioning of the installation for which the Contractor shall be perpossible.				
	) the provision of an area for office accommodation, temporary orkshops and for the storage of plant and materials;				
cc	) the use of erected scaffolding belonging to the Contractor, in ommon with others having the like right whilst it so remains erected pon the site:  Carried Forward				
SE	ection No. 7 ECTION 7 - PRIME COST AND PROVISIONAL SUMS ill No. 1				
	rovisional Sums				

M	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought Forward				
- 1	5) the use of messrooms, latrine, health and welfare facilities, and the like, where provided;				
	6) the use of the site telephone (if provided) subject to the payment by the sub-contractor for all his outgoing calls;				
	7) temporary casing and/or other protection of the work;				
	8) site security measures;				
- 1	9) hoisting of the sub-contractor's material in loads not exceeding the available hoisting loads of cranes of the contractor;				
	10) repairs and making good in all trades and final cleaning down on completion.				
	Fuel, power and water for commissioning plant				
	The cost of fuel, power and water for the commissioning of plant shall be borne by the sub-contractor appointed for the relevant sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved. The contractor shall allow opposite this item or under the relevant attendance items for the recovery of such costs via the installation of the necessary meters				
	Work executed by direct contractors				
	Work listed under the heading "Work executed by direct contractors" shall be executed before and during this contract and the tenderer must allow free access to the site for such other contractors. These contractors shall be directly paid by the client and the tenderer must allow for programming in conjunction with them to complete the project successfully within the contract period. The estimated values of these contracts are listed to enable the tenderer to determine the extent of the attendance if required. Profit on these contracts shall not be allowed.				
	Budgetary allowances Budgetary allowances shall be re-measured and valued on the same pricing structure as the rest of the contract or shall be omitted in full if so required.				
	Landscaping and Irrigation				
- 1	Provide the sum of R50 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required.	Item	1	R50 000,00	
2	Allow for Profit if required	%			
3	Provide sum of R120000 for Toilets		1	R120 000,00	
	Allow for profit if required  Carried to Final Summary Section No. 7	%			
- 1	SECTION 7 - PRIME COST AND PROVISIONAL SUMS Bill No. 1 Provisional Sums				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	FINAL SUMMARY	Page No			
1	SECTION 1 - PRELIMINARY AND GENERAL	25			
2	SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT	30			
3	SECTION 3 - DEMOLITIONS & ALTERATIONS	36			
4	SECTION 4 - BUILDING WORKS (EXTERNAL)	43			
5	SECTION 5 - EXTERNAL WORKS	62			
6	SECTION 6 - SOCIO ECONOMC DEVELOPMENT	63			
7	SECTION 7 - PRIME COST AND PROVISIONAL SUMS	65			
	Subtotal				
	CONTINGENCIES				
	Provide 5% for Construction Contingencies to be used at the discretion of the Principal Agent or deducted in whole or in part if not required		5%		
	Sub-Total				
	Value Added Tax				
	ADD: Value added Tax at 15%				
	TOTAL CARRIED TO FORM OF OFFER				
l 					