NO       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 Preliminaries Code 2103, May 2005 edition for use with the JBCC Preliminaries Intervention 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	
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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	
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	
No clause Fixed: Value related: Item Time related:	
OBJECTIVE AND PREPARATION	
1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE	
Clause 2.0	
Fixed:Value related:Time 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:	
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	
Carried Forward R	
SECTION NO. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries	

Brought Forward		R
Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"		
No clause		
Fixed: Value related: Time related:	Item	
A4.0 DESIGN RESPONSIBILITY		
Clause 4.0		
Clause 4.3 is amended by replacing it with the following:		
No clause		
No clause Fixed: Value related: Time related:	ltem	
A5.0 EMPLOYER'S AGENTS		
Clause 5.0		
Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8		
Fixed: Value related: Time related:	ltem	
A6.0 SITE REPRESENTATIVE		
Clause 6.0		
Fixed: Value related: Time related:	ltem	
A7.0 COMPLIANCE WITH REGULATIONS		
Clause 7.0		
Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification		
Fixed: Value related: Time related:	Item	
A8.0 WORKS RISK		
Clause 8.0		
Fixed: Time	Item	
related: Value related fille	Kom	
Carried Forward		R
Section No. 1		
SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries		
rommanes	I I	I

		Brought Forward		R
A9.0 INDEMNITIES				
Clause 9.0				
Fixed: related:	_ Value related:	Time	Item	
and/or damages of w consequent upon the out in 10.7.1; 10.7.2 recovered from the o amounts still due un presently or hereafte	r shall be entitled to reco whatever nature suffere e contractor's default of and 10.7.3. Such losse contractor or by deductin der this contract or unde r existing between the or is purpose all these con visible whole	d or incurred his obligations as set s or damages may be ng the same from any er any other contract employer and the		
Fixed: related:	_ Value related:	Time	Item	
A11.0 LIABILITY IN	SURANCES			
Clause 11.0				
Fixed: related:	_ Value related:	Time	Item	
A12.0 EFFECTING	INSURANCES			
Clause 12.0				
Fixed: related:	_ Value related:	Time	ltem	
A13.0 No clause				
14.2, the employer, i the contractor, is ent of security to that of	tractor fail to furnish the in his sole discretion an itiled to change the cont a ten per cent (10%) pa payment certificate (ex I be applicable	d without notification to tractor's selected form syment reduction of the		
Fixed: related:	_ Value related:	Time	Item	
EXECUTION				
	possession of the site w or complying with the te			
Fixed: related:	_ Value related:	Time	Item	
A16.0 ACCESS TO				
Clause 16.0				
Fixed: related:	_ Value related:	Time	Item	
		Carried Forward		R
Section No. 1 SECTION 1 - PRELI Bill No. 1 Preliminaries	MINARY AND GENER	AL		

		Brought Forward		R
13	A17.0 CONTRACT INSTRUCTIONS			
	Clause 17.0			
	Clause 17.1.11 is amended by deleting appointment of nominated and selected	the words "and the subcontractors"		
	Fixed:Value related: related:	Time	Item	
14	A18.0 SETTING OUT OF THE WORKS			
	Clause 18.0			
	Fixed: Value related: related:	Time	Item	
15	A19.0 ASSIGNMENT			
	Clause 19.0			
	Fixed: Value related: related:	Time	Item	
6	A20.0 NOMINATED SUBCONTRACTOR	RS		
	Clause 20.0			
	Clause 20.1.3 is amended by replacing it clause Note: See item B9.1 hereinafter f attendance on nominated subcontractors for under provisional sums	for adjustment of		
	Fixed: Value related: related:	Time	Item	
17	A21.0 SELECTED SUBCONTRACTOR	S		
	Clause 21.0			
	Clause 21 is amended by replacing it wi	th:		
	No clause			
	Fixed: Value related: related:	Time	Item	
8	A22.0 EMPLOYER'S DIRECT CONTRA	CTORS		
	Clause 22.0			
	Fixed: Value related: related:	Time	Item	
9	A23.0 CONTRACTOR'S DOMESTIC SU	IBCONTRACTORS		
	Clause 23.0			
	Fixed:Value related: related:	Time	Item	
		Carried Forward		R
	Section No. 1 SECTION 1 - PRELIMINARY AND GEN Bill No. 1 Preliminaries	ERAL		

	Brought Forward		R	
	COMPLETION			
20	A24.0 PRACTICAL COMPLETION			
	Clause 24.0			
	Fixed: Value related: Time related:	Item		
21	A25.0 WORKS COMPLETION			
	Clause 25.0			
	Fixed: Value related: Time related:	Item		
22	A26.0 FINAL COMPLETION			
	Clause 26.0			
	Clause 26.1.2 is amended by inserting "#" next to 26.1.2			
	Fixed: Value related: Time related:	Item		
23	A27.0 LATENT DEFECTS LIABILITY PERIOD			
	Clause 27.0			
	Fixed: Value related: Time related:	Item		
24	A28.0 SECTIONAL COMPLETION			
	Clause 28.0			
	Fixed: Value related: Time related:	Item		
25	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION			
	Clause 29.0			
	Clause 29.2.5 is amended by replacing it with:			
	No clause			
	Fixed: Value related: Time related:	Item		
26	A30.0 PENALTY FOR NON-COMPLETION			
	Clause 30.0			
	Fixed: Value related: Time related:	Item		
	PAYMENT			
	Payment shall be subject to the employer giving the contractor a tax invoice for the amount due			
	Fixed: Value related: Time related:	ltem		
	Carried Forward		R	<u> </u>
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries			

Brought Forward		''
A32.0 ADJUSTMENT TO THE CONTRACT VALUE		
Clause 32.0		
Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: due to no fault of the contractor		
Fixed: Value related: Time related:	Item	
A33.0 RECOVERY OF EXPENSE AND LOSS		
Clause 33.0		
Fixed: Value related: Time related:	Item	
A34.0 FINAL ACCOUNT AND FINAL PAYMENT		
Clause 34.0		
Clause 34.1 is amended by removing "#" next to 34.1		
Clause 34.2 is amended by inserting "#" next to 34.2		
Clause 34.8 is amended by deleting the words "where security as a fixed 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 the employer giving the contractor a tax invoice for the amount due"		
Fixed: Value related: Time related:	Item	
A35.0 PAYMENT TO OTHER PARTIES		
Clause 35.0		
Fixed: Value related: Time related:	Item	
CANCELLATION		
A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT		
Clause 36.0		
Clause 36.1 is amended by the addition of the following clauses:		
36.1.3 refuses or neglects to comply strictly with any of the conditions of contract		
36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa		
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"		
Carried Forward		R
Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL		
Bill No. 1 Preliminaries		
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Brought Forward		R	
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			
Fixed: Value related: Time related:	ltem		
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 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: Value related: Time related:	Item		
2 A39.0 CANCELLATION - CESSATION OF THE WORKS			
Clause 39.0 Clause 39.3.5 is amended by the addition of the following at the end of the sentence: within one hundred and twenty (120) working days of completion of such a report Fixed: Value related: Time related:	Item		
DISPUTE			
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			
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: Value related: Time related:	ltem		
Carried Forward Section No. 1		R	
SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1			
Preliminaries			

	NS	Brought Forward		R
A41.0 STATE CLAUSES				
Clause 41.0				
Fixed: Valu related:	e related:	Time	ltem	
CONTRACT VARIABLES				
A42.0 THE SCHEDULE (I	DPW-04EC)			
Clause 42.0 Tenderers ar 04(EC) for variables pertain		tract Data DPW-		
Fixed:Valu related:	e related:	Time	Item	
SECTION B: JBCC PREL	IMINARIES			
B1.0 DEFINITIONS AND	INTERPRETATION			
B1.1 Definitions and inte	rpretation			
See also clause A1.0 of Sodefinitions which shall app				
Fixed: Valu related:	ie related:	Time	Item	
B2.0 DOCUMENTS				
B2.1 Checking of docum	ents			
Fixed: Valu related:	ie related:	Time	Item	
B B2.2 Provisional bills of	quantities			
Fixed: Valu related:	ie related:	Time	Item	
B2.3 Availability of const	truction documenta	tion		
Fixed: Valu related:	ie related:	Time	ltem	
B2.4 Interests of agents				
Fixed:Valu related:	ie related:	Time	Item	
1 B2.5 Priced documents				
Fixed: Valu related:	ie related:	Time	Item	
2 <b>B2.6 Tender submission</b>				
Clause 2.6 is amended by "Form of Offer and Accept		rm of Tender" with		
Fixed: Valu related:	le related:	Time	Item	
		Carried Forward		R
Section No. 1 SECTION 1 - PRELIMINA Bill No. 1 Preliminaries	RY AND GENERAL			

			Brought Familie	
	B3.0 THE SITE		Brought Forward	
13	B3.1 Defined w	orks area		
	Fixed: related:	Value related:	Time	Item
44	B3.2 Geotechni	ical investigation		
	Fixed: related:	Value related:	Time	Item
45	B3.3 Inspection	of the site		
	Fixed: related:	Value related:	Time	Item
46	B3.4 Existing p	remises		
	Fixed: related:	Value related:	Time	Item
		work - dimensional accura	ICV	
		Value related:	-	ltem
	related:			
48	B3.6 Previous v	work - defects		
	Fixed: related:	Value related:	Time	Item
	B3.7 Services -			
		Value related:	Time	Item
	related:			
50	B3.8 Services -	unknown		
	Fixed: related:	Value related:	Time	
	B3.9 Protection			Item
			Time	ltom
	related:			Item
52	B3.10 Articles c	of value		
	Fixed: related:	Value related:	Time	Item
		 on of adjoining properties		
	-	Value related:	Time	Item
	related:	value relateu		ile(1)
	B4.0 MANAGEN	MENT OF CONTRACT		
54	B4.1 Manageme	ent of the works		
	Fixed: related:	Value related:	Time	Item
	-eialeu			
	Section No. 1		Carried Forward	I
	SECTION 1 - PF	RELIMINARY AND GENER	AL	
	Bill No. 1 Preliminaries			
Ρ	reliminaries			

		Brought Forward		1
B4.2 Programme f	for the works			
Fixed: related:	Value related:	Time	Item	
B4.3 Progress me	etings			
Fixed: related:	Value related:	Time	Item	
B4.4 Technical me	eetings			
Fixed: related:	Value related:	Time	Item	
B4.5 Labour and p	plant records			
Fixed: related:	Value related:	Time	Item	
	HOP DRAWINGS AND N	IANUFACTURERS'		
B5.1 Samples of n	naterials			
Fixed: related:	Value related:	Time	Item	
B5.2 Workmanshi	p samples			
Fixed: related:	Value related:	Time	Item	
B5.3 Shop drawin	gs			
Fixed:	Value related:	Time	Item	
B5.4 Compliance	with manufacturers' ins	tructions		
Fixed:	Value related:	Time	Item	
	WORKS AND PLANT			
B6.1 Deposits and	l fees			
Fixed:	Value related:	Time	Item	
B6.2 Advertising				
Fixed:	Value related:	Time	Item	
6 B6.3 Advertising				
Fixed: related:	Value related:	Time	Item	
B6.4 Plant, equipr	nent, sheds and offices			
Fixed: related:	Value related:	Time	Item	
		Carried Forward		R
Section No. 1 SECTION 1 - PREI Bill No. 1	LIMINARY AND GENER	AL		
Preliminaries				

			Brought Forward	
67	B6.5 Main notice be	oard	Disagint i bi walu	
	Fixed: related:	Value related:	Time	Item
68	B6.6 Subcontractor	rs' notice board		
	Fixed: related:	Value related:	Time	Item
	B7.0 TEMPORARY	SERVICES		
69	B7.1 Location			
	Fixed: related:	Value related:	Time	Item
70	B7.2 Water			
		Value related:	Time	Item
	related:			
71	B7.3 Electricity			
	Fixed: related:	Value related:	Time	Item
72	B7.4 Telecommuni	cation facilities		
		Value related:	Time	Item
	related:			
73	B7.5 Ablution facili			
	Fixed: related:	Value related:	Time	Item
	B8.0 PRIME COST	AMOUNTS		
74	B8.1 Responsibility	y for prime cost amoun	its	
	Fixed:	Value related:	Time	Item
	related:			
	B9.0 ATTENDANCE	E ON N/S SUBCONTRA	<u>CTORS</u>	
75	B9.1 General atten	dance		
	Fixed: related:	Value related:	Time	Item
76	B9.2 Special attend			
	-	Value related:	Time	ltem
	related:			iteill
77	B9.3 Commissionir	ng - fuel, water and elec	ctricity	
		Value related:	Time	Item
	related:			
	B10.0 FINANCIAL A			
18	-	es, duties and levies		
	Fixed: related:	Value related:		Item
	Section No. 1		Carried Forward	
		IMINARY AND GENERA	AL	
	Preliminaries			

Fixed:       Value related:       Time       Item         810.3 Adjustment of preliminaries       Fixed:       Value related:       Time       Item         Fixed:       Value related:       Time       Item         810.4 Payment certificate cash flow       Fixed:       Value related:       Time       Item         811.0 SENERAL       B11.1 Protection of the works       Fixed:       Value related:       Time       Item         811.2 Protection / isolation of existing / sectionally occupied works       Fixed:       Value related:       Time       Item         811.3 Security of the works       Fixed:       Value related:       Time       Item         811.4 Notice before covering work       Fixed:       Value related:       Time       Item         811.5 Disturbance       Fixed:       Value related:       Time       Item         811.6 Environmental disturbance       Fixed:       Value related:       Time       Item         811.6 Environmental disturbance       Fixed:       Value related:       Time       Item         811.8 Vermin       Fixed:       Value related:       Time       Item         811.8 Vermin       Fixed:       Value related:       Time       Item         811.9 Overhand work       Fix	B10.2 Payment f	or preliminaries	Brought Forwar	d	R
related:	Fixed:	Value related:	Time	Item	
Fixad:       Value related:       Time       Item         810.4 Payment certificate cash flow       Fixad:       Value related:       Time       Item         811.0 GENERAL       811.1 Protection of the works       Fixad:       Value related:       Time       Item         811.1 Protection / isolation of existing / sectionally occupied works       Fixad:       Value related:       Time       Item         811.2 Security of the works       Fixad:       Value related:       Time       Item         811.3 Security of the works       Fixad:       Value related:       Time       Item         811.4 Notice before covering work       Fixad:       Value related:       Time       Item         811.5 Disturbance       Fixad:       Value related:       Time       Item         811.5 Disturbance       Fixad:       Value related:       Time       Item         811.6 Environmental disturbance       Fixed:       Value related:       Time       Item         811.8 Environmental disturbance       Fixed:       Value related:       Time       Item         811.8 Environmental disturbance       Fixed:       Value related:       Time       Item         811.9 Orchand work       Fixed:       Value related:       Time       Item      <	related:				
related:	-	-			
Fixed:       Value related:       Time       Item         B11.0 GENERAL       B11.1 Protection of the works       Item         Fixed:       Value related:       Time       Item         B11.2 Protection / isolation of existing / sectionally occupied works       Fixed:       Value related:       Item         B11.3 Security of the works       Fixed:       Value related:       Time       Item         B11.3 Security of the works       Fixed:       Value related:       Time       Item         B11.4 Notice before covering work       Fixed:       Value related:       Time       Item         B11.5 Disturbance       Fixed:       Value related:       Time       Item         B11.6 Environmental disturbance       Fixed:       Value related:       Time       Item         B11.7 Works cleaning and clearing       Fixed:       Value related:       Time       Item         B11.8 Vermin       Fixed:       Value related:       Time       Item         B11.9 Overhand work       Fixed:       Value related:       Time       Item         B11.9 Overhand work       Fixed:       Value related:       Time       Item         B11.9 Overhand work       Fixed:       Value related:       Time       Item         <			Time	Item	
related:	B10.4 Payment c	certificate cash flow			
B11.1 Protection of the works       Time       Item         Fixed:       Value related:       Time       Item         B11.2 Protection / isolation of existing / sectionally occupied works       Fixed:       Value related:       Time         B11.3 Security of the works       Fixed:       Value related:       Time       Item         B11.3 Security of the works       Fixed:       Value related:       Time       Item         B11.4 Notice before covering work       Fixed:       Value related:       Time       Item         B11.5 Disturbance       Fixed:       Value related:       Time       Item         B11.6 Environmental disturbance       Fixed:       Value related:       Time       Item         B11.6 Environmental disturbance       Fixed:       Value related:       Time       Item         B11.7 Works cleaning and clearing       Fixed:       Value related:       Time       Item         B11.8 Vernin       Fixed:       Value related:       Time       Item         B11.9 Overhand work       Fixed:       Value related:       Time       Item         B11.10 Instruction manuals and guarantees       Fixed:       Value related:       Time       Item         B11.0 Instruction No. 1       Section No. 1       Carried Forward			Time	Item	
Fixed:       Value related:       Time       Item         B11.2 Protection / isolation of existing / sectionally occupied works       Fixed:       Value related:       Time         B11.3 Security of the works       Item       Item         Fixed:       Value related:       Time       Item         B11.4 Notice before covering work       Fixed:       Value related:       Time       Item         B11.5 Disturbance       Fixed:       Value related:       Time       Item         B11.6 Environmental disturbance       Fixed:       Value related:       Time       Item         B11.7 Vorks cleaning and clearing       Fixed:       Value related:       Time       Item         B11.8 Vermin       Fixed:       Value related:       Time       Item         B11.9 Overhand work       Fixed:       Value related:       Time       Item         B11.9 Cortnot - PRELIMINARY AND GENERAL       Time       Item       Item	B11.0 GENERAL				
related:	2 B11.1 Protection	n of the works			
works       Fixad:       Value related:       Time       Item         B11.3 Security of the works       Fixad:       Value related:       Time       Item         B11.4 Notice before covering work       Fixad:       Value related:       Time       Item         B11.4 Notice before covering work       Fixad:       Value related:       Time       Item         B11.5 Disturbance       Fixad:       Value related:       Time       Item         B11.6 Environmental disturbance       Fixad:       Value related:       Time       Item         B11.7 Works cleaning and clearing       Fixed:       Value related:       Time       Item         B11.8 Vermin       Item       Item       Item       Item         Fixed:       Value related:       Time       Item         B11.9 Overhand work       Fixed:       Value related:       Time       Item         B11.10 Instruction manuals and guarantees       Fixed:       Value related:       Time       Item         B11.10 Instruction manuals and guarantees       Fixed:       Value related:       Time       Item         Section No. 1       Section No. 1       Section No. 1       R       Section No. 1       R			Time	ltem	
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related:					
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B11.9 Overhand work       Fixed:       Value related:       Time       Item         Fixed:       B11.10 Instruction manuals and guarantees       Item       Item         B11.10 Instruction manuals and guarantees       Fixed:       Value related:       Item         Fixed:       Value related:       Time       Item         related:       Carried Forward       R         Section No. 1       SECTION 1 - PRELIMINARY AND GENERAL       Bill No. 1			Time	Item	
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B11.10 Instruction manuals and guarantees         Fixed:			Time	Item	
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SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1			Carried Forwar	d	R
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	Brought Forward	
92	B11.11 As built information	
	Fixed: Value related: Time related:	Item
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 related:	Item
	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	
	* 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	
	Carried Forward	
	Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries	

Brought Forward If prior written approval for an alternative product is not obtained,		R
the product described shall be deemed to have been tendered for		
Fixed: Value related: Time related:	Item	
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)		
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	
9 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	
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	
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	
2 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		
Fixed: Value related: Time related:	Item	
Carried Forward Section No. 1		R
SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1		

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Preliminaries

Brought Forward			R
C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS			
In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister			
The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959			
Fixed: Value related: Time	Item		
related:			
Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification			
Fixed: Value related: Time related:	Item		
C10.2 AWARENESS WORKSHOPS			
Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification			
Fixed: Value related: Time related:	Item		
<b>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</b> 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: Value 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		
Carried Forward			R
Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries			

Brought Forward C10.5 MONITORING		F
Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all eports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close but, all in accordance with the HIV/AIDS Specification		
Fixed: Value related: Time elated:	ltem	
C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT		
The contractor shall comply with all the requirements set out in he Construction Regulations, 2003 issued under the Occupational lealth and Safety Act, 1993 (Act No 85 of 1993)		
t 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 Decupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, 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 nade under this clause and it is explicitly pointed out that all equirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained		
Fixed: Value related: Time elated:	Item	
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 vriting, on the appropriate form, prior to commencement of work		
Fixed: Value related: Time elated:	ltem	
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 blan 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 blan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5		
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Fixed: Value related: Time elated:	Item	

Bill No. 1 Preliminaries

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		ION WITH THE CON ulation 5.3 f)	IPENSATIO	N FUND			
standin	ng with the Co	I provide proof of his ompensation Fund or commencement of we	a licensed o				
	:	Value related:		Time	Item		
C11.4 5.7)	HEALTH AN	D SAFETY FILE ( Co	onstruction	Regulation			
shall in safety s opened or Insp Contra	clude all doc specification, d and kept on ector upon re	Il ensure that a healt umentation required the Act and the Con site and made avail quest. Upon comple d over a consolidate	in terms of the struction Reg able to the P action of the w	ne health and gulations, is rincipal Agent vorks, the			
	:	Value related:		Time	Item		
		ON OF CONSTRUCT		(SAFETY			
writing the cor part-tim control are req	as the constr nstruction wo ne constructio of all safety r juired to ensu	II appoint a full-time of ruction supervisor, wi rk. The Contractor sh on safety officer in wr related aspects on th ore that at all times the egulations are adhere	th the duty o all appoint a iting to assis e site. Such le requireme	f supervising full-time or it in the appointments nts of the Act			
	:	Value related:		Time	Item		
(Const Before assess writing safety p site at a out the person precau the rela employ provide visitors condition damag	commencing ment to be p and the risk a plan. A copy all times for in works in a m s or risk of da tions regardin ated work pro- vees, visitors e personal pro- to site which cons which co- ie to property	SMENT AND SAFE ulation 7) work the Contractor erformed by a compe assessment shall for of the risk assessme nspection. The Contr anner to avoid the ri amage to any proper ing training of employ cedures, health and or any other persons otective equipment to a re necessary and a ntribute to the risk of in terms of Regulation	shall cause etent person m part of the nt shall be av actor shall at sk of bodily h ty. He shall t ees in any ha safety induct entering the o all employe adequate to o injury to person 7	appointed in health and vailable on t all time carry harm to take all azards and tion training of e site and es and eliminate any sons or	Item		
	:			Time	item		
		T HAZARDA IDENT EPARED BY THE DI					
to take hazard consult	the necessa s and risks id tants	I allow for additional ry precautions regard entified and assesse	ling the signi d by the des	ificant ign			
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11.8 ADDITIO	NAL FINANCIAL PROVISION	I		
to comply with th Safety Act (Act	shall allow for additional finan he requirements of the Occupa No 85 of 1993) and the Const ler which have not been speci	ational Health and ruction Regulations		
Fixed: related:	Value related:	Time	Item	
C11.9 FALL PR	OTECTION PLAN (Construct	tion Regulation 8)		
submit a fall prot to ensure the co shall include a ri	shall, before commencing any ection plan identified all steps ntinued adherence to the fall p sk assessment of all work car . The fall protection plan shall v plan and file F	to be taken in order protection plan and ried out from an		
ixed: related:	Value related:	Time	Item	
	AL AND PSYCHOLOGICAL I Regulation 8.2(b))	FITNESS		
construction wor out work from ar	and sub-contractors shall befo k submit proof of his employe n elevated position their physic ness. And shall be recorded in	es that shall carried cal and		
Fixed: related:	Value related:	Time	Item	
workers received such vehicle, an such constructio	and sub-contractors shall ens d training and been certified or d are physical and psychologi n vehicles and mobile plants. health and safety file	ompetent to operate cal fit to operate		
Fixed: related:	Value related:	Time	Item	
	IG (Construction Regulation	9 (c))		
The contractor a construction wor	nd sub-contractors shall, befo k, submit his training program program shall from part of the	re commencing any of all his		
Fixed: related:	Value related:	Time	ltem	
C11.13 DEMOL	TION WORK (Construction	Regulation 12)		
submit all metho	shall, before any demolition we d of demolition to be used. Th n and safety plan and file.			
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Preliminaries

1		Brought Forward		R	
B C11.14 REMOV	AL AND DISPOSAL OF ASBES	TOS MATERIAL			
The principle co	ntractor shall appoint a contractor	or that is registered			
NOTIFICATION PROTECTIVE E AND STORAGE	abour as an AIA. The contractor OF ASBESTOS PROCESSING QUIPMENTPACKAGING AND TO DISPOSAL SITEDEMOLITI LING AND INFORMATION	PERSONAL TRANSPORT			
Fixed	Value related:	Timo	ltom		
related:	value related:	11me	ltem		
	Carried Forward to Summar	y of Section No. 1		R	
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SECTION SUMMARY - SECTION 1 - PRELIMINARY AND GENERAL	Page No		
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Carried to Final Summary		R	

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.			
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	ltem	1	
Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Item	1	
Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	Months	3	
Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Months	3	
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			

	Brought Forward			
	Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific 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	10	
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	5	
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, backfilling, etc	ltem	1	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT Bill No. 1			
	OHS and Environmental Management	l		

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<u>SE</u>	CTION NO. 2			
BIL	<u>L NO. 2</u>			
HE EN	ALTH & SAFETY EDUCATION AND VIRONMENTAL MANAGEMENT			
1 Allo	v for all COVID-19 awareness training	Months	3	
cov	/ID-19 HEALTH AND SAFETY WORK PRACTICES			
2 Sym	ptom screening of all site visitors upon arrival	Months	3	
	Carried Forward to Summary of Section No. 2	2		
SEC	tion No. 2 TION 2 - OHS AND ENVIROMENTAL MANAGEMENT			
	No. 2 Ith & Safety Education and Environmental Management			
I		1	1	

	SECTION SUMMARY - SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT	Page No		
1	OHS and Environmental Management	22		
	Health & Safety	23		
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	Carried to Final Summary			
	Section No. 2			
	SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT			

	SECTION NO. 3		
	BILL NO. 1		
	DEMOLITION OF NON COMPLIANT ACCESS RAMPS		
	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 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		
1	Ramps	m2	5
2	Steps	m2	2
3	Slabs/walkways	m2	80
	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
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		
	Surplus material from demolitions and/or stock piles of rubble on site, to a dumping site to be located by the contractor	m3	25
	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	1
	Carried Forward to Summary of Section No. 3 Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS Bill No. 1 Demolitions		

3

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#### 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

#### General

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

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)

#### 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.

2 Remove VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).

#### 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

Carried Forward Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS

Bill	No. 2	
Alte	erations	

	Brought Forward				
	Franka Madal TI 101 or agual approved flush valva/aistora flat				
	Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:				
	SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	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	R150 000,00	R150 000,00
	METALWAORK				
	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				
	Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS Bill No. 2 Alterations				

SECTION SUMMARY - SECTION 3 - DEMOLITIONS & ALTERATIONS	Page No		
Demolitions	25		
Alterations	27		
Carried to Final Summary			
Section No. 3 SECTION 3 - DEMOLITIONS & ALTERATIONS			

1		I	l	1
SECTION NO. 4				
BILL NO. 1				
EARTHWORKS				
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".				
Subterranean water				
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.				
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 Carried Forward	m3	31		
Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works				

Brought Forward			
Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod			
AASHTO density			
Exceeding 1m and not exceeding 2m deep for building retaining walls,	m3	40	
Extra over for excavation in soft rock	m3	4	
Extra over for excavation in hard rock	m3	2	
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	17	
Risk of collapse of excavations			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	107	
Keeping excavations free of water			
Keeping excavations free of all water other than subterranean water	ltem	1	
De-watering of seepage water and water from other subterranean sources in excavations			
Provide pump with including maintenance and removal as per Principal Agents Approval	No	2	
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	58	
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	17	
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			
Backfilling behind retaining walls	m3	40	
Over site to make up levels	m3	16	
Earth filling supplied by the contractor compacted to 90% Mod AASHTO density			
Landscape mounds, berms,	m3	16	
Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO			
Over site to make up levels	m3	5	
Prescribed density tests on filling			
Modified AASHTO Density test	No	8	
Carried Forward Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works			

	Brought Forward		
	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	4
	Membrane		
18	Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	72
	110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.		
19	110mm uPVC pipe.	m	70
	Extra over fittings		
20	110mm Tee.	No	20
21	110mm Y junction.	No	20
	SOIL POISONING		
	Soil insecticide in accordance with SANS 5859		
	Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	157
23	To bottoms and sides of trenches	m2	107
	CONCRETE, FORMWORK AND REINFORCEMENT		
	SUPPLEMENTARY PREAMBLES		
	General		
	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		

	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			
	Finishing			
	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	3	
	REINFORCED CONCRETE			
	25MPa/19mm concrete			
25	Stripfootings	m3	17	
	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/m <sup>2</sup> 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			

	Brought Forward			
	ROUGH FORMWORK (DEGREE OF ACCURACY II)			
	Rough formwork to sides			
;	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			
	Between concrete surface bed and/or raft foundation and brick walls.	m	107	
	Saw-cut joints			
	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			
1	Varying diameters in bases and structural concrete work	t	1	
	MASONRY			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	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.			
	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 4 - BUILDING WORKS (EXTERNAL) Bill No. 1			
	Building works			

	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):		
	One brick walls	m2	17
	SUPERSTRUCTURE 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	110
	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	127
	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:		
	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	107
	BRICKWORK SUNDRIES		
	Brickwork reinforcement		
36	150mm Wide reinforcement built in horizontally every second course	m	749
	Carried to Final Summary		
	Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works		

SECTION NO. 5		
BILL NO. 1		
STORMWATER		
SUPPLEMENTARY PREAMBLES		
General		
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.		
CONCRETE STORMWATER DISH DRAIN		
EXCAVATIONS		
Excavation in compacted earth not exceeding 2m deep		
Excavation in earth not exceeding 2m deep for trenches	m3	40
Extra over all excavations for carting away		
2 Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	12
Risk of collapse of excavations		
3 Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	33
Compaction of ground surfaces		
4 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	80
FILLING		
Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:		
5 Backfilling to trenches	m3	12
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	12
Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO		
Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater		

7	Over site to make up levels	m3	5	
	Prescribed density tests on filling			
3	Modified AASHTO Density test	No	5	
	25MPa/19mm concrete			
a	25MPa/19mm reinforced concrete in bottoms and sides	m3	12	
,		mo	12	
	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/m <sup>2</sup> in accordance with the Engineer's guidelines			
)	Finishing concrete bottoms smooth with a steel trowel to falls	m2	80	
	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	33	
2	Smooth formwork to sides above sloping bottoms	m2	33	
	MOVEMENT JOINTS			
	solation joints formed of 10 x 12mm deep silicone sealant,			
	backing rope and closed cell polyurethane joint former			
	Expansion joints with soft board through concrete bottoms not exceeding 300mm high	m	33	
Ļ	Expansion joints with soft board through concrete sides of channels not exceeding 300mm wide	m	33	
	REINFORCEMENT			
	Type 617 fabric reinforcement in concrete placed 40mm from the Top	m2	80	
	Angle section galvanised steel bearers with flat section bent lugs each welded, including embedding in concrete	kg	100	
	Extra over for mitred and welded L-intersection	No	5	
	CONCRETE STORMWATER V DRAIN			
	EXCAVATIONS			
	Excavation in compacted earth not exceeding 2m deep			
	Excavation in earth not exceeding 2m deep for trenches	m3	28	
	Risk of collapse of excavations			
	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	54	
	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	57	
	Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1			
	Bill No. 1 Stormwater			

	Brought Forward		
FI	LLING		
ex	arth filling (G7 material) supplied by the contractor in layers not ceeding 125mm thick and compacted to 98% Mod AASHTO ensity:		
1 Ba	ackfilling under floors	m3	9
<u>0'</u> S/	ver site of Selected Subgrade G5 material in accordance with ABS 1 200 DM in layers not exceeding 150mm thick and mpacted to 95% Mod AASHTO density.		Ū
2 ur	ider floors	m3	9
Pr	escribed density tests on filling		
3 M	odified AASHTO Density test	No	4
RI	EINFORCED CONCRETE		
ste fin tro no ex po	ast in-situ Ref 395 mesh reinforced concrete (25MPa) open ormwater channels having V-shaped waterway formed in top, ished smooth on all exposed surfaces in 3:1 cement plaster owelled smooth and with angles rounded, cast in suitable lengths of exceeding 2m, including all formwork, moulds, shallow cavation, filling and ramming, laying to falls, bedding and ointing in 3:1 cement mortar. Concrete apron to be tinted, colour be specified by the Engineer		
pc fo	0 x 80mm thick V' channel 150mm deep in centre laid in sition in ground not exceeding 2000mm sections including all rmwork, reinforcement, expansion joints, smooth finishing to top concrete surface	m	67
5 E>	tra for 700mm angle	m	12
hi bu cc	tra for forming 200mm thick 700mm wide spreader with 200mm gh edges fanning out to 1 960mm width at furthest end with hard urnt bricks pitching cast in ass diffusers including working off ncrete to a smooth finish and draining onto natural ground with i0 - 200mm diameter loose stones.	No	2
C	DNCRETE SUNDRIES		
hi	nishing top surfaces of concrete smooth with a power float with gh quality "ABC Plate" floor hardener applied at a rate of 7kg/m <sup>2</sup> accordance with the Engineer's guidelines		
7 Fi	nishing concrete bottoms smooth with a steel trowel to falls	m2	57
TE	EST CUBES		
	aking and testing 150 x 150 x 150mm concrete strength test be (Provisional)	No	6
SI	Carried Forward ection No. 5 ECTION 5 - EXTERNAL WORKS II No. 1		
	ormwater		

	CULVERTS Brought Forward			
	Supply and Lay Concrete Pipe Culverts on class B bedding:			
	Class 50-D-load pipes with U joints:			
	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	
	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	
86	Prescribed density tests on filling			
	Modified AASHTO Density test	No	1	
37	REINFORCED CONCRETE			
	25MPa/19mm concrete			
	25Mpa/19mm Reinforced concrete in bottom slabs and footings	m3	1	
88	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/m <sup>2</sup> in accordance with the Engineer's guidelines			
	Finishing concrete bottoms smooth with wood float Carried Forward	m2	2	
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1			

	Brought Forward			
	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	
10	Rough formwork to sides			
	REINFORCEMENT			
	Weld Mesh Ref 193 in Concrete bottom slab	m2	5	
1	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			
13	150mm Wide reinforcement built in horizontally every second course	m	12	
	PLASTERING			
	EXTERNAL PLASTER			
	Cement plaster wood floated, on brickwork			
14	On walls	m2	2	
	Gabion Mattress			
5	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>			
16	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			

SECTION NO. 5			
BILL NO. 2			
APRONS			
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.			
CONCRETE APRONS			
EXCAVATIONS			
Excavation in compacted earth not exceeding 2m deep			
Excavation in earth not exceeding 2m deep for trenches	m3	12	
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	4	
Risk of collapse of excavations			
Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	24	
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	
FILLING			
Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:			
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.			
Under floors	m3	6	
Coarse river sand filling supplied by the contractor:			
Under floors	m3	1	
Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 2			

	Brought Forward Prescribed density tests on filling Modified AASHTO Density test	No	3	
	REINFORCED CONCRETE	NO	5	
	25MPa/19mm concrete			
9	Surface beds cast in panels on waterproofing	m3	4	
	Edge thickening	m3	2	
Ŭ	CONCRETE SUNDRIES	mo	-	
	Finishing top surfaces of concrete smooth with a power float with high quality "ABC Plate" floor hardener applied at a rate of 7kg/m <sup>2</sup> in accordance with the Engineer's quidelines			
1	Finishing concrete bottoms smooth with a steel trowel to falls	m2	40	
•••	TEST CUBES	1112		
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 wide or high	m2	6	
	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	
	REINFORCEMENT			
16	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40	
	WATERPROOFING			
	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 Carried Forward	m2	16	
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 2 Aprons			

	Brought Forward		
	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:		
3	Stone (>63mm)	m3	8
	Membranes		
4	Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces.	m2	48
	Tests		
25	Percolation tests	Item	1
	Carried Forward to Summary of Section No. 5		
	Section No. 5		
	Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 2		
	Aprons		

		I	
SECTION NO. 5			
BILL NO. 3			
WALKWAYS			
SUPPLEMENTARY PREAMBLES			
General			
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.			
CONCRETE WALKWAY			
EXCAVATIONS			
Excavation in compacted earth not exceeding 2m deep			
Excavation in earth not exceeding 2m deep for trenches	m3	34	
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	20	
Risk of collapse of excavations			
Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	67	
Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:			
Under floors	m2	80	
FILLING			
Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:			
Under floors	m3	10	
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.			
Under floors	m3	24	
Coarse river sand filling supplied by the contractor:			
Under floors	m3	2	
Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS Walkways Bill No. 3			

Prescribed density tests on fillingNo8Modified AASHTO Density testNo5SOIL POISONINGApproved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:m29Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.m2150-175mm Tanalith Treated Gum Pole. poles not allowed to be cut post treatment.m2
SOIL POISONING         Approved brand of anti-termite soil poison applied by a Registered         Pest Control Company and guaranteed against termite infestation         for ten years:         9         Treat filling under paving with 'Chlordane Heptachlor Aldrin' or         m2       147         150-175mm Tanalith Treated Gum Pole. poles not allowed to be
Approved brand of anti-termite soil poison applied by a Registered         Pest Control Company and guaranteed against termite infestation         for ten years:         9         Treat filling under paving with 'Chlordane Heptachlor Aldrin' or         equal approved.         150-175mm Tanalith Treated Gum Pole. poles not allowed to be
Pest Control Company and guaranteed against termite infestation         for ten years:         9 Treat filling under paving with 'Chlordane Heptachlor Aldrin' or         equal approved.         150-175mm Tanalith Treated Gum Pole. poles not allowed to be
equal approved. <u>150-175mm Tanalith Treated Gum Pole. poles not allowed to be</u>
0 2100mm long tanalith treated gum pole planted 800mm deep No 24 including excavations, cartaways, concrete base etc
CONCRETE TO WALKWAYS
Construction of paving complete
25MPa/19mm concrete
1 Walkways m3 12
Reinforcement (Provisional)
2 REF. 395 fabric reinforcement in concrete infill, strip footings. m <sup>2</sup> 80
Test blocks:
3 Making and testing of 150x150x150mm concrete strength test No 4 cubes (Provisional).
Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:
4 12mm Joints not exceeding 300mm high. m 67
Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc
5       10 x 12mm In movement joints in floors or walls including raking m       67         out expansion joint filler as necessary.       67
Waterproofing under Surface beds
6       350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).       m <sup>2</sup> 80
Carried Forward
Section No. 5
SECTION No. 5 SECTION 5 - EXTERNAL WORKS Walkways Bill No. 3

Brought Forward			
d Forward to Summary of Section No. 5			
LWORKS			

Carried

Section No. 5 SECTION 5 - EXTERNAL Walkways Bill No. 3

BIL	<u>L NO. 4</u>			
	RAMPS_			
	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	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	
ļ	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			
	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			
	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	4	
	MOVEMENT JOINTS			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:			
1	12mm Joints not exceeding 300mm high	m	3	
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc			
	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3	
	Carried Forward			
	Section No. 5 SECTION 5 - EXTERNAL WORKS Ramps Bill No. 4			

	Brought Forward			
	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	
	Carried Forward to Summary of Section No. 5			
	Section No. 5 SECTION 5 - EXTERNAL WORKS			
	Ramps Bill No. 4			

SECT	ION NO. 5		
	NO. 5		
FENC	ING		
SUPF	LEMENTARY PREAMBLES		
Gene	ral		
	e quantities are measured in accordance with SANS 1200 fications.		
confli	Contractor is to notify the Principal Agent immediately if a ct between the Engineer's Specification, Architectural ngs and/or these Bills of Quantities are found.		
comp quant imme found Quan	uantities are provisional and will be re-measured upon letion of the works. The Contractor shall not use these ities for ordering of materials. The Contractor must diately notify the Quantity Surveyor if discrepancies are between the quantities and/or descriptions in these Bills of tities and the Contractor's quantities measured from ruction drawinos and specifications.		
The to amou	otal amount for the works should be included in the Tender nt.		
FENC	ING		
Site c	learance		
to be	for clearing site for the width of 1 000 mm where fencing is erected including removing trees, shrubs etc. not exceeding nm girth, grubbing up roots and roughly levelling.	m2	63
<u>Strain</u>	ing wires, fencing and razor wire:		
to fen throug strain	strands of 4mm Class'A' galvanised straining wires secured cing posts with doubled 2 mm galvanised wire inserted gh hole in post and turned a minimum of four turns around ing wire and attached to straining frame at one end with not han four turns at the other end to straining bolts (elsewhere ured)	m	252
3 3 Stra eye b	nds of galvanised barbed wire tied to standards, posts and olts	m	189
800m wire a	ng formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 m high and fixed to each straining wire with 8 guage binding t 500mm centres including Y12 pegs at 900mm c/c between (straining wires elsewhere measured)	m	63
Posts	for 1 800mm high security fence		
2400r and 1	n Diameter galvanised steel intermediate fencing post nm long fitted with a pressed steel mushroom cap one end 50 x 150 x 5 mm baseplate at bottom and embedded in and ling 350 x 350 x 600 mm mass concrete (15 MPa) base	m	25
galva bolteo	m Ditto as corner post, fitted with two 50mm diameter nised steel stay set raking and with top end flattened and I through post, with post and stay both embedded in mass ete (15 MPa) bases as last.	No	2
	Carried Forward		

	Brought Forward			
75mm Ditto as intermediate post - 1 drop between standard posts	per every 3000mm	No	46	
8 150mm Ditto as gate post 2 400mm long, diameter galvanised steel stay set raking flattened and bolted through post, with po embedded in mass concrete (15 MPa) ba	and with top end st and stay both	No	2	
12mm Diameter galvanised mild steel stra threaded portion and two nuts and washe		No	8	
0 Form 12mm diameter hole through fence	post	No	8	
<u>Gates</u>				
1 Two leafed vehicular swing gate. Size 5500m	m x 1800mm high.	No	2	
2 Security fence single gate, size 1 000 mm formed of 50 mm diameter nominal bore is hot dip galvanised mild steel pipe framing and welded angles and cross braces mull scribed and welded into angles and at cro 50 mm diameter nominal bore x 3,25 mm posts each 600 mm long with one end we and closure plate to other end, the gate c 2,5 mm weld mesh with four straining wire and with four 2,37 mm four point core dia wires with crimped droppers to security point including three strands flat wrap razor bar before described, leaf fitted with three 24 long eyebolt hinges and stops including a bolted to adjoining galvanised gatepost w long approved chain spot welded to gate	x 3,25 mm wall thickness all round with mitred ion and transome, uss intersections, with two wall thickness security elded to top rail of gate overed with 100 x 50 x es as before described meter single "kampeon" osts as before described; bed tape wire fixed as mm diameter x 300 mm Il holes, etc., welded or	m	1	
PADLOCKS				
B Supply 50 mm "Viro" Padlocks and Keys	(or equal approved	m	1	
ACCESS DRIVEWAY, ETC.				
Excavation not exceeding 2m deep				
Reducing levels and depositing excavated stock piles on site.	d material in prescribed	m³	35	
Extra over all excavations for loading, car excavated material (no allowance made f				
<sup>5</sup> Off site to a dumping site to be found by the 0	Contractor.	m³	18	
Filling supplied by the contractor under dr	iveways			
G7 Base course material compacted to 98%	Mod AASHTO density	m³	6	
Rip and Re - compact insitu material on s Mod. AASHTO density:	ite compacted to 93%			
7 Under floors,etc.		m²	40	
Approved brand of anti-termite soil poisor Pest Control Company and guaranteed ar for ten years:				
3 Treat filling under paving with 'Chlordane approved.	Heptachlor Aldrin' or equal	m²	40	
Supply and installation of gates to match (measured elsewhere) to be fixed flush by manufacturer's instruction; including all ne and locking mechanisms	specialist according to			
9 Vehicular entrance gate 6000mm wide compl	ete with motor.	No	1	
Carried Forward to Su	Immary of Section No. 5			

Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No.5 Fencing

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	1	1	
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Section No. 5 SECTION 5 - EXTERNAL WORKS			

	SECTION NO. 6				
	BILL NO. 1				
	SITE PERSONNEL				
	COMMUNITY LIAISON OFFICER				
	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)	Item	1	R22 500,00	R22 500,00
2	Allow for Profit on above two items	%IT			
	Carried to Final Summary				
	Section No. 6 SECTION 6 - SOCIO ECONOMC DEVELOPMENT Bill No. 1 Site Personnel				

#### SECTION NO. 7

BILL NO. 1

#### PROVISIONAL SUMS

#### SUPPLEMENTARY PREAMBLES

#### General

The following Provisional Amounts are for work to be done by firms of specialists and will, unless expressly stated otherwise, be regarded as Selected Sub-contractors to the Contractor. The Contractor must assist in obtaining tenders and/or quotations from approved firms and submit them to the Agent/Representative for his approval. The tenderer's attention is drawn to Section 1: Preliminaries for further amplification of Provisional- and Prime Cost Amounts.

#### Note: All provisional sums are "NETT".

The profit and attendance on Nominated/Selected Subcontract allowances will be adjusted to take the of actual Final Account values of the respective Subcontracts into account. The adjustment factor will be the percentages calculated with reference to the BoQ allowances.

#### Profit

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 subcontract.

#### Attendance

Without in any way limiting the meaning and interpretation, "general attendance" on sub-contractors shall include free of charge to the sub-contractor the following services for the purpose of the relative sub-contract works:

 access to the site and to the places where the work is to be carried out, including the use of any temporary personnel hoists erected by the Contractor for his own use;

2) the provision of water and lighting and of single and/or three phase 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 responsible:

3) the provision of an area for office accommodation, temporary workshops and for the storage of plant and materials;

 the use of erected scaffolding belonging to the Contractor, in common with others having the like right whilst it so remains erected upon the site;

5) the use of messrooms, latrine, health and welfare facilities, and the like, where provided;

 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;

**Carried Forward** 

Section No. 7 SECTION 7 - PRIME COST AND PROVISIONAL SUMS Bill No. 1 Provisional Sums

	Brought Forward				
	<ol> <li>hoisting of the sub-contractor's material in loads not exceeding the available hoisting loads of cranes of the contractor;</li> </ol>				
	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 necessarv 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	R50 000,00
2	Allow for Profit if required	%IT			
	Desludging of Pit Toilets				
1	Provide the sum of R120 000. 00 for Desludging of Pit Toilets to be used as directed by the Principal Agent and deducted in whole or in part if not required.	Item	1	R120 000,00	R120 000,00
2	Allow for Profit if required	%IT			
	Carried to Final Summary				
	Section No. 7 SECTION 7 - PRIME COST AND PROVISIONAL SUMS				
	Bill No. 1 Provisional Sums				
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	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			
	Sub-Total			
	Value Added Tax			
	ADD: Value added Tax at 15%			
	TOTAL			
	Carried to Form of Tender			