DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN
SECTION 1				
BILL NO. 1				
PRELIMINARIES				
MEANING OF TERMS "TENDER / TENDERER"				
Any reference to the words "Tender" or "Tenderer" herein and/or in an 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 20 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 allocate 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	b			
Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities	i			
SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT				
DEFINITIONS				
No clause Fixed: Value related: Time related:	Item			
OBJECTIVE AND PREPARATION				
A2.0 OFFER, ACCEPTANCE AND PERFORMANCE				
Clause 2.0				
Fixed: Value related: Time related:	Item			
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 Forwa	rd			
Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries				

		Brought Forwa	rd
Clause 3.10 is amend agent" with the word		cond reference to "princip	al
No clause			
Fixed:	Value related:	Time	Item
A4.0 DESIGN RESPO	_		
Clause 4.0	01101212111		
	ed by replacing it with the	ne followina:	
No clause		3	
No clause Fixed:related:		ed: Time	Item
A5.0 EMPLOYER'S	AGENTS		
Clause 5.0			
Clause 5.1.2 is amer 38.5.8	nded to include clauses	32.6.3, 34.3, 34.4 and	
Fixed:related:	_ Value related:	Time	Item
A6.0 SITE REPRESE			
Clause 6.0			
	_ Value related:	Time	Item
related:			
A7.0 COMPLIANCE	WITH REGULATIONS		
Clause 7.0			
Preliminaries of the b contractor to have the Occupational Health Health and Safety Sp	and Safety Act, Constru pecification	sum document for the or all the requirements of the uction Regulations and	ne
Fixed:related:	_ Value related:	Time	Item
A8.0 WORKS RISK			
Clause 8.0			
Fixed:related:	_ Value related: 	Time	Item
		Carried Forwa	rd
Section No. 1			
SECTION 1 - PRELIM Bill No. 1	MINARY AND GENERA	AL	
Preliminaries			

		Brought Forward	
A9.0 INDEMNITI	IES		
Clause 9.0			
Fixed:related:	Value related:	Time	Item
10.7.4 The emploand/or damages upon the contract 10.7.2 and 10.7.3 contractor or by this contract or u between the emploars.	oyer shall be entitled to reco of whatever nature suffered ctor's default of his obligation 3. Such losses or damages deducting the same from an under any other contract pre- ployer and the contractor an e considered one indivisible	I or incurred consequent ns as set out in 10.7.1; may be recovered from the by amounts still due under sently or hereafter existing d for this purpose all these	
Fixed:related:	Value related:	Time	Item
A11.0 LIABILITY	Y INSURANCES		
Clause 11.0			
	Value related:	Time	Item
related:			
A12.0 EFFECTIN	NG INSURANCES		
Clause 12.0			
Fixed: related:	Value related:	Time	Item
A13.0 No clause			
the employer, in contractor, is ent security to that o	contractor fail to furnish the his sole discretion and with titled to change the contract of a ten per cent (10%) paym ayment certificate (excluding le	out notification to the or's selected form of ent reduction of the value	
Fixed: related:	Value related:	Time	Item
EXECUTION			
Give the contract	tor possession of the site wi		
Fixed:	Value related:	Time	Item
related:			
Clause 16.0	TO THE WORKS		
	Value related:	Time	Item
related:			
		Carried Forward	
Section No. 1 SECTION 1 - PR	RELIMINARY AND GENERA	AL	
Bill No. 1			

			Brought Forward		
13	A17.0 CONTRACT INSTRUCTION	NS			
	Clause 17.0				
	Clause 17.1.11 is amended by de appointment of nominated and sel				
	Fixed:Value relate related:	ed:	_ Time	Item	
14	A18.0 SETTING OUT OF THE WO	ORKS			
	Clause 18.0				
	Fixed:Value related related:	d:	Time	Item	
15	A19.0 ASSIGNMENT				
	Clause 19.0				
	Fixed:Value related	d:	Time	Item	
16	A20.0 NOMINATED SUBCONTRA	ACTORS			
	Clause 20.0				
	Clause 20.1.3 is amended by repla Note: See item B9.1 hereinafter fo nominated subcontractors executions sums	r adjustment of a	ttendance on		
	Fixed: Value related related:	d:	Time	Item	
	A21.0 SELECTED SUBCONTRAC	CTORS			
	Clause 21.0				
	Clause 21 is amended by replacir	og it with:			
	No clause	.g 16 mills			
	Fixed: Value related	d·	Time	Item	
	related: value related	٠	THILE	IGIII	
8	A22.0 EMPLOYER'S DIRECT CO	NTRACTORS			
	Clause 22.0				
	Fixed: Value related	d:	Time	Item	
	related:				
9	A23.0 CONTRACTOR'S DOMEST	TIC SUBCONTRA	ACTORS		
	Clause 23.0				
	Fixed:Value related related:	d:	Time	Item	
			Carried Forward		
	Section No. 1 SECTION 1 - PRELIMINARY AND) GENERAI			
	Bill No. 1	3			
ļ	Preliminaries				

	l		Brought Forw	vard
	COMPLETION			
0	A24.0 PRACTICAL	. COMPLETION		
	Clause 24.0			
		Value related:	Timo	Item
	related:		i iiie	item
1	A25.0 WORKS CO	MPLETION		
	Clause 25.0			
	Fixed:	Value related:	Time	Item
	related:			
22	A26.0 FINAL COM	PLETION		
1	Clause 26.0			
1	Clause 26.1.2 is an	mended by inserting "#" r	next to 26.1.2	
		Value related:	Time	Item
	related:			
23	A27.0 LATENT DE	FECTS LIABILITY PERI	OD	
1	Clause 27.0			
	Fixed:related:	Value related:	Time	Item
	A28.0 SECTIONAL	COMPLETION		
	Clause 28.0			
	Fixed: related:	Value related:	Time	Item
		OF DATE FOR PRACTIC	AL COMPLETION	
	Clause 29.0		712 GOIIII 2211GII	
			:41	
		nended by replacing it wi	ım:	
	No clause			
	Fixed: related:	Value related: 	Time	Item
26	A30.0 PENALTY F	OR NON-COMPLETION	l	
	Clause 30.0			
		Value related:	Timo	Item
	related:		111116	IIGIII
	<u>PAYMENT</u>			
			iving the contractor a tax	:
	invoice for the amo			
	Fixed: related:	Value related:	Time	Item
			Carried Forw	vard
	Castle: No. 4		Carrieu POIW	raiu
		LIMINARY AND GENER	AL	
	Bill No. 1 Preliminaries			

		Brought Forward	
7 A32.0 ADJUS	STMENT TO THE CONTRACT	VALUE	
Clause 32.0			
	5.1, 32.5.4 and 32.5.7 are amend the end of the sentence: due to r		
Fixed: related:	Value related:	Time	Item
8 A33.0 RECO	VERY OF EXPENSE AND LOS	ss	
Clause 33.0			
Fixed: related:	Value related:	Time	Item
9 A34.0 FINAL	. ACCOUNT AND FINAL PAYM	ENT	
Clause 34.0			
	is amended by removing "#" nex	et to 34.1	
	is amended by inserting "#" next		
Clause 34.8 i	is amended by inserting # next is amended by deleting the word ction guarantee in terms of 14.4 ant reduction has been applied in	ds "where security as a has been selected or	
"twenty-one (B is amended by replacing "seve (21) calendar days" and deleting ing the contractor a tax invoice f	the words "subject to the	
Fixed:related:	Value related:	Time	Item
A35.0 PAYM	ENT TO OTHER PARTIES		
Clause 35.0			
Fixed:related:	Value related:	Time	Item
CANCELLAT	<u>FION</u>		
A36.0 CANC	ELLATION BY EMPLOYER - C	ONTRACTOR'S	
Clause 36.0			
Clause 36.1 i	is amended by the addition of th	e following clauses:	
36.1.3 refuse contract	es or neglects to comply strictly v	with any of the conditions of	
	e being sequestrated, liquidated by laws in force within the Repub		
	judgement of the employer, has actices in competing for or in ex		
	is amended by removing the refe words "principal agent" with "er		
		Carried Forward	
Bill No. 1	- PRELIMINARY AND GENERA	L.	
Preliminarie	s		

Brought Forward		
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:	Item	
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	
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:	ltem	
<u>DISPUTE</u>		
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:	Item	
Carried Forward		
Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1		
Preliminaries		

SUBST	ITUTE PROVISIONS	Brought Forward	
A41.0 S	STATE CLAUSES		
Clause	41.0		
	Value related:	Time	Item
CONTR	ACT VARIABLES		
5 A42.0 T	HE SCHEDULE (DPW-04EC)		
	42.0 Tenderers are referred to the Conables pertaining to this contract	tract Data DPW-04(EC)	
Fixed:_ related:	Value related:	Time	Item
SECTIO	ON B: JBCC PRELIMINARIES		
B1.0 DI	EFINITIONS AND INTERPRETATION		
B1.1 De	efinitions and interpretation		
	o clause A1.0 of Section A for additional ons which shall apply equally to this Sec		
	Value related:	Time	Item
B2.0 D	OCUMENTS		
B2.1 CI	necking of documents		
	Value related:	Time	Item
88 B2.2 Pr	ovisional bills of quantities		
	Value related:	Time	Item
B2.3 A	vailability of construction documentar	tion	
	Value related:	Time	Item
10 B2.4 In	terests of agents		
	Value related:	Time	Item
11 B2.5 Pr	iced documents		
Fixed:_ related:	Value related:	Time	Item
12 B2.6 T 6	ender submission		
	2.6 is amended by replacing "JBCC For and Acceptance DPW-07(EC)"	rm of Tender" with "Form	
Fixed:_	Value related:	Time	Item
related:			
0. :		Carried Forward	
Section SECTION Bill No.	ON 1 - PRELIMINARY AND GENERAL		
Prelimi			

	B3.0 THE SITE		Brought Forwa	ard
13	B3.1 Defined works	s area		
	Fixed:related:	_ Value related:	Time	Item
44	B3.2 Geotechnical	investigation		
	Fixed:related:	_ Value related: 	Time	Item
45	B3.3 Inspection of	the site		
	Fixed:related:	_ Value related: 	Time	Item
46	B3.4 Existing prem	ises		
	Fixed:related:	_ Value related:	Time	Item
47	B3.5 Previous work	ς - dimensional accura	су	
	Fixed:	_ Value related:	Time	Item
48	B3.6 Previous work	c - defects		
	Fixed:related:	_ Value related:	Time	Item
49	B3.7 Services - kno	own		
	Fixed:related:	_ Value related:	Time	Item
50	B3.8 Services - unk	known		
	Fixed:	_ Value related:	Time	
	related:			Item
	B3.9 Protection of t			
	Fixed:related:	_ Value related: 	Time	Item
52	B3.10 Articles of va	alue		
	Fixed:related:	_ Value related: 	Time	Item
53	B3.11 Inspection of	f adjoining properties		
	Fixed:related:	_ Value related:	Time	Item
	B4.0 MANAGEMEN	T OF CONTRACT		
54	B4.1 Management	of the works		
		_ Value related:	Time	Item
	related:	_		
			Carried Forwa	ard
	Section No. 1 SECTION 1 - PRELI	IMINARY AND GENERA		
	Bill No. 1 Preliminaries			

			Brought Forwa	ard	
55 E	34.2 Programme fo	r the works			
F	Fixed: elated:	_ Value related: 	Time	Item	
56 E	34.3 Progress meet	tings			
	Fixed: elated:	_ Value related:	Time	Item	
57 E	34.4 Technical mee	tings			
F	Fixed: elated:	_ Value related: 	Time	Item	
58 E	34.5 Labour and pla	ant records			
	Fixed: elated:	_ Value related: 	Time	Item	
	B5.0 SAMPLES, SHONS	OP DRAWINGS AND	MANUFACTURERS'		
59 E	35.1 Samples of ma	aterials			
	Fixed:elated:	Value related:	Time	Item	
60 E	35.2 Workmanship	samples			
r	Fixed:	Value related:	Time	Item	
61 E	35.3 Shop drawings	s			
	Fixed:	Value related:	Time	Item	
62 E	35.4 Compliance w	ith manufacturers' in	structions		
	Fixed:elated:	Value related:	Time	Item	
E	B6.0 TEMPORARY \	WORKS AND PLANT			
63 E	36.1 Deposits and f	ees			
r	Fixed:elated:	_ Value related:	Time	Item	
64 E	36.2 Advertising				
r _t	Fixed:elated:	_ Value related: 	Time	Item	
65 E	36.3 Advertising				
	Fixed: elated:	_ Value related: 	Time	Item	
66 E	36.4 Plant, equipme	ent, sheds and offices	s		
r.	Fixed:elated:	_ Value related:	Time	Item	
	Saction No. 1		Carried Forwa	ard	
S	Section No. 1 SECTION 1 - PRELI Bill No. 1	MINARY AND GENER	AL		
	Preliminaries				

Fixed:	Brought For	ward	
Selected:			
Fixed:		Item	
Item Item	.6 Subcontractors' notice board		
		Item	
Time Item Item	.0 TEMPORARY SERVICES		
	.1 Location		
Item Item		Item	
Item Item	.2 Water		
Fixed: Value related: Time Item		Item	
State	.3 Electricity		
Item Item		Item	
Stated:	.4 Telecommunication facilities		
Sized:		Item	
### ### ##############################	.5 Ablution facilities		
### 18.0 PRIME COST AMOUNTS ### 18.1 Responsibility for prime cost amounts ### 18.1 Responsibility for prime cost amounts ### 18.1 Responsibility for prime cost amounts #### 18.1 Responsibility for prime cost amounts ##### 18.1 Responsibility for prime cost amounts ###################################		Item	
Fixed: Value related: Time Item It			
### 19.0 ATTENDANCE ON N/S SUBCONTRACTORS ### 19.1 General attendance ### 19.2 Special attendance ### 19.2 Special attendance ### 19.3 Commissioning - fuel, water and electricity ### 19.3 Commissioning - fuel, water and electricity ### 19.3 Commissioning - fuel, water and electricity #### 19.1 Statutory taxes, duties and levies #### 19.1 Statutory taxes, duties and levies ###################################			
99.0 ATTENDANCE ON N/S SUBCONTRACTORS 99.1 General attendance Fixed:		Item	
#9.1 General attendance Fixed: Value related: Time #9.2 Special attendance Fixed: Value related: Time #9.3 Commissioning - fuel, water and electricity Fixed: Value related: Time #10.0 FINANCIAL ASPECTS #10.1 Statutory taxes, duties and levies Fixed: Value related: Time #10.1 Statutory taxes, duties and levies #10.2 Fixed: Value related: Time #10.3 Item			
Fixed: Value related: Time	_		
#9.2 Special attendance Fixed: Value related: Time #9.3 Commissioning - fuel, water and electricity Fixed: Value related: Time #10.0 FINANCIAL ASPECTS #10.1 Statutory taxes, duties and levies Fixed: Value related: Time		Item	
Fixed: Value related: Time #9.3 Commissioning - fuel, water and electricity Fixed: Value related: Time #10.0 FINANCIAL ASPECTS #10.1 Statutory taxes, duties and levies Fixed: Value related: Time			
### Plated:	·	Item	
Fixed:Value related: Time		, nom	
it 10.0 FINANCIAL ASPECTS it 10.1 Statutory taxes, duties and levies Fixed: Value related: Time Item			
it 10.1 Statutory taxes, duties and levies Fixed: Value related: Time Item		Item	
Fixed: Value related: Time Item	0.0 FINANCIAL ASPECTS		
Fixed:Value related:Time Item	0.1 Statutory taxes, duties and levies		
	xed: Value related: Time ated:	Item	
Carried Forward	Carried For	ward	
ection No. 1 ECTION 1 - PRELIMINARY AND GENERAL			

B10.2 Payment f	or preliminaries	Brought Fo	orward	
		T '		
related:	Value related:	IIMe	Item	
B10.3 Adjustmer	nt of preliminaries			
	Value related:	Time	Item	
related:				
	certificate cash flow			
related:	Value related:	Time	Item	
B11.0 GENERAL	:			
B11.1 Protection	of the works			
Fixed: related:	Value related:	Time	Item	
	· / isolation of existing / s	ectionally occupied	works	
		,		
Fixed:related:	Value related:	Time	Item	
B11.3 Security o				
Fixed:	Value related:	Time	Item	
related:				
	ore covering work			
Fixed:related:	Value related:	Time	Item	
B11.5 Disturband	ce			
Fixed:related:	Value related:	Time	Item	
B11.6 Environme				
	Value related:	Tima	Item	
related:		111116	item	
	aning and clearing			
Fixed:related:	Value related:	Time	Item	
B11.8 Vermin				
	Value related:	Time	Item	
related:				
B11.9 Overhand		_		
Fixed:	Value related: 	Time	Item	
B11.10 Instruction	on manuals and guarante	es		
	Value related:	Time	Item	
related:				
		Carried Fo	rward	
i				1

	Brought Forward	
32	B11.11 As built information	
	Fixed: Value related: 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
	Fixed:	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	Item
	related:	
96	C2.0 GENERAL PREAMBLES	
	The desument "Chasification of Materials and Mathada to be used	
	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	Item
	related:	
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	
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	Bill No. 1 Preliminaries			
	Section No. 1 SECTION 1 - PRELI	IMINARY AND GENER	AL	
			Carried Forward	
	related:	Value related: 	111116	пеш
f c i	persons from the wo forthwith and shall the denied access to the nformation relating to	orks for security reasons nereafter ensure that suce works and the site and to the works	,	Item
a	and workmen, or a c	certain number of them,	•	
02	C8.0 SECURITY CH	IECK OF PERSONNEL		
	Fixed: related:	Value related:	Time	Item
e s	As the works falls ventrance permits for shall comply with all from time to time reg	regulations and instruct garding the protection of	contractor shall obtain men entering the area and ions which may be issued	
r	related:	_		
(((unit commander or of commencement of the commencements, admit costs will be for the costs.	other responsible officer he works. Should the co	ntractor fail to make such refused and any additional	ltem
		— IENT OF WORKS IN SE	CURITY AREAS	
F		Value related:		Item
ν	with the unit comma	n a security area and the nder or other responsible the site for tendering pure	e officer to obtain	
		 SITE IN SECURITY AR	REAS	
F	Adjustment Provision Fixed: related:	Value related:	Time	Item
N	Notwithstanding any contract prices, the p			
f	shall provide all the such item, materials fluctuations. (refer to	information called for, fa or equipment shall be e	ler documents, the tenderer iling which the price of any xcluded from currency Materials and Equipment	
98 (C4.0 IMPORTED MA	ATERIALS AND EQUIP	MENT	
	Fixed: related:	Value related:	Time	Item
		val for an alternative pro hall be deemed to have	Brought Forward duct is not obtained, the been tendered for	

		Brought Forward	
C9.0 PROHIBITION	ON TAKING OF PHOTO	OGRAPHS	
sketch or to take phouilding or civil wor	notographs of any military ks thereon or to be in pos ed for taking of photograp		
	on is also applicable to all (e) of the Correctional Se	correctional institutions in ervices Act 8 of 1959	
Fixed: related:	Value related:	Time	Item
C10.1 AWARENES	S CHAMPION		
Awareness Champi	ment, briefing and making ion including provision of a HIV/AIDS Specification	g available of an all relevant services, all in	
Fixed:related:	Value related:	Time	Item
C10.2 AWARENES	S WORKSHOPS		
by the principal age and a suitable venu traditional and/or m courses, making av	nt, provision of a Service	and performing	
Fixed: related:	Value related:	Time	Item
Provision, displayin plastic laminated po	osters, booklets and educ	rc. ing when necessary of four ational videos, etc. for the ordance with the HIV/AIDS	
Fixed: related:	Value related:	Time	Item
C10.4 ACCESS TO			
Provision and mair including male and condoms on a daily	ntenance of condom dispe female condoms, replenis basis as required for the	shing male and female	
Fixed:related:	Value related:	Time	Item
		Carried Forward	
	IMINARY AND GENERA	L	
Bill No. 1 Preliminaries			

	Brought Forward	
(C10.5 MONITORING	
1	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification	
	Fixed: Value related: Time related:	Item
)4	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)	
i	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	
1	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	
1	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: Value related: Time related:	Item
	C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)	
ŀ	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: Value related: Time related:	Item
	C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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:	Item
	Carried Forward	
	Section No. 1	
I	SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1	
П	Preliminaries	

Brought Forward C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 5.3 f)		
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	
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 related:	Item	
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:	ltem	
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	
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 BIII No. 1		
Preliminaries		

	Brought Forward	
12	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: Time	Item
13	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
	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:Time related:Time related:	Item
	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
16	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
17	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: Value related: Time related: Time	Item
	Carried Forward Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1	
	Preliminaries	

	E	Brought Forward			
C11.14 REMOVA (Asbestos Regul	AL AND DISPOSAL OF ASBESTOS (lation)	MATERIAL			
The principle cont	tractor shall appoint a contractor that	is registered with			
Department of La NOTIFICATION OPROTECTIVE EC STORAGE TO DI	bour as an AIA. The contractor must OF ASBESTOS PROCESSINGPERS QUIPMENTPACKAGING AND TRANS ISPOSAL SITEDEMOLITION WORK ING AND INFORMATION	ONAL SPORT AND			
Fixed:	Value related: Ti	ime	Item		
related:					
	Carried Forward to Summary	of Section No. 1			
	James i orward to Junillary	C. CCCHOII NO. 1			
Section No. 1	EL BAINLARY AND GENES.				
SECTION 1 - PRI Bill No. 1	ELIMINARY AND GENERAL				
Preliminaries					

	SECTION SUMMARY - SECTION 1 - PRELIMINARY AND GENERAL	Page No		
1	Preliminaries	19		
	Carried to Final Summary			

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
- 2 Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]
- 3 Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]
- 4 Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.
- 5 Provision of full time Health and Safety Officer for the entire construction period.

Carried Forward

Item

Months

Months

3

3

3

Section No. 2
SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT
Bill No. 1
OHS and Environmental 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:			
Hard hats (high density polyethylene & 6-point lining)	No	20	
Vests	No	10	
Safety boots / shoes (steel-toe)	No	10	
Safety gloves	No	10	
Ear plugs/ muffs	No	10	
Dust mask(at least FF2 type)	No	5	
Respirators	No	1	
Cloth Masks	No	1	
Face shields	No	1	
FFP1 surgical masks	No	25	
Safety goggles	No	5	
Temporary warning signs and symbols	No	5	
Allow for pre-employment medical examinations	Item	1	
Allow for exit medical examinations	Item	1	
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	Item	1	
Carried Forward to Summary of Section No. 2	!		
Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT			

BILL NO. 2			
HEALTH & SAFETY EDUCATION AND ENVIRONMENTAL			
MANAGEMENT			
Allow for all COVID-19 awareness training	Months	3	
COVID-19 HEALTH AND SAFETY WORK PRACTICES			
Symptom screening of all site visitors upon arrival	Months	3	
Carried Forward to Summary of Section No. 2	2		
Section No. 2			

MANAGEMENT			
OHS and Environmental Management	22		
Health & Safety	23		
Carried to Final	al Summary		

	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	138	
	Taking down and removing			
4	Non compliant existing fence	m	0	
	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			
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	
	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			

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 senarately 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 necessarv 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) 50mm Waste pipe. 3 m Remove VIP 200 Pit pedestal and prepare surface to receive new VIP No 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 Nο 3 floor with and including 6 x 75mm masonry anchors **Carried Forward** Section No. 3 **SECTION 3 - DEMOLITIONS & ALTERATIONS** Bill No. 2 Alterations **Brought Forward**

I	1			l
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		
Remove and replace Urinal with new	No	5		
NEW SANITARY PLUMBING		Ü		
PVC waste or vent pipes and fittings:				
50mm Waste pipe	No	3		
Extra for:				
550mm Bend.	No	2		
50mm Access bend.	No	- 1		
NEW BATHROOM FITTINGS		·		
Satin Grey Plastics or equal approved				
"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	8		
BOLTS:				
50mm Alu/Metal holder bat to hold vent pipes against brick wall	No	57		
ALLOWANCE FOR TEMPORARY TOILETS				
Allow for temporary toilets for use during construction	Item	1	R150 000,00	R150 000,0
<u>METALWAORK</u>				
STEEL BALUSTRADING				
GALVANISED STEEL BALUSTRADING				
Welded balustrading to walkways				
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				
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 - DEMO ALTERATIONS				
Demolitions		25		
Alterations		27		
	Carried to Final Summary			

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. <u>Testing</u> 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 Trenches m3 34 **Carried Forward** 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	30	
Extra over for excavation in soft rock	m3	3	
Extra over for excavation in hard rock	m3	3	
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	19	
Risk of collapse of excavations			
Sides of trench and hole excavations not exceeding 1,5m deep	m2	122	
Keeping excavations free of water			
Keeping excavations free of all water other than subterranean water	Item	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	64	
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	20	
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	30	
Over site to make up levels	m3	12	
Earth filling supplied by the contractor compacted to 90% Mod AASHTO density			
Landscape mounds, berms,	m3	12	
Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO			
Over site to make up levels	m3	2	
Prescribed density tests on filling			
Modified AASHTO Density test	No	8	
Carried Forward Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL)			

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:			
20mm Stone.	m3	3	
Membrane			
Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	54	
110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.			
110mm uPVC pipe.	m	60	
Extra over fittings			
110mm Tee.	No	15	
110mm Y junction.	No	15	
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	172	
To bottoms and sides of trenches	m2	122	
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			

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:			
Surface blinding under footings and bases	m3	3	
REINFORCED CONCRETE			
25MPa/19mm concrete			
Stripfootings	m3	19	
TEST CUBES			
6 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
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			
7 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	122	
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			
Varying diameters in bases and structural concrete work	t	2	
MASONRY			
SUPPLEMENTARY PREAMBLES			
<u>BRICKWORK</u>			
<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			
<u>Pointing</u>			
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)			

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	20	
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			
One brick walls	m2	104	
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)			
One brickwall faced on both sides.	m2	120	
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	122	
BRICKWORK SUNDRIES			
Brickwork reinforcement			
150mm Wide reinforcement built in horizontally every second course	m	704	
Carried to Final Summary			
Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL)			

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	18	
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	5	
Risk of collapse of excavations			
Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	15	
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	36	
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	5	
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.			
Backfilling to Trenches	m3	5	
Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO			
Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS			

	Brought Forward			
Over site to make	up levels	m3	2	
Prescribed densit	v tests on filling			
Modified AASHTO	Density test	No	2	
REINFORCED CO	<u>ONCRETE</u>			
25MPa/19mm cor	ncrete			
25MPa/19mm reir	nforced concrete in bottoms and sides	m3	5	
CONCRETE SUN	IDRIES			
quality "ABC Plate	aces of concrete smooth with a power float with high " floor hardener applied at a rate of 7kg/m² in he Engineer's guidelines			
Finishing concrete	bottoms smooth with a steel trowel to falls	m2	36	
ROUGH FORMW	ORK (DEGREE OF ACCURACY II)			
Rough formwork t	o sides			
Formwork to edge wide or high	es, risers, ends and reveals not exceeding 300mm	m2	15	
Smooth formwork	to sides above sloping bottoms	m2	15	
MOVEMENT JOIL	<u>NTS</u>			
	med of 10 x 12mm deep silicone sealant, backing ell polyurethane joint former			
Expansion joints vexceeding 300mm	with soft board through concrete bottoms not n high	m	15	
Expansion joints vexceeding 300mm	with soft board through concrete sides of channels not a wide	m	15	
REINFORCEMEN	<u>ır</u>			
Type 617 fabric re	einforcement in concrete placed 40mm from the Top	m2	36	
	vanised steel bearers with flat section bent lugs each embedding in concrete	kg	45	
Extra over for mitr	red and welded L-intersection	No	2	
CONCRETE STO	RMWATER V DRAIN			
EXCAVATIONS				
Excavation in con	npacted earth not exceeding 2m deep			
Excavation in ear	th not exceeding 2m deep for trenches	m3	39	
Risk of collapse o	f excavations			
Risk of collapse o	f sides of excavations not exceeding 1,5m deep	m2	74	
Compaction of gro	ound surfaces			
including scarifyin	tural or excavated ground surface under floors, g for a depth of 150mm, breaking down oversize uitable material where necessary and compacting to O density Carried Forward	m2	78	
Section No. 5 SECTION 5 - EXT Bill No. 1 Stormwater				

Brought Forward			
FILLING			
Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:			
Backfilling under floors	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.			
under floors	m3	12	
Prescribed density tests on filling			
Modified AASHTO Density test	No	5	
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			
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	92	
Extra for 700mm angle	m	16	
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	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			
Finishing concrete bottoms smooth with a steel trowel to falls	m2	78	
TEST CUBES			
Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6	
Carried Forward Section No. 5			
SECTION 5 - EXTERNAL WORKS			1

<u>CULVERTS</u>	Brought Forward			
Supply and Lay Concrete Pipe C	Culverts on class B bedding:			
Class 50-D-load pipes with U joi	nts:			
	laid in trenches not exceeding 1m fill, bedding, cart away and compaction.	m	2	
HEADWALLS EXCAVATIONS				
Excavation in compacted earth r	not exceeding 2m deep			
Excavation in earth not exceeding	ng 2m deep for trenches	m3	3	
Risk of collapse of excavations				
Risk of collapse of sides of exca	vations not exceeding 1,5m deep	m2	2	
Extra over all excavations for ca	rting away			
Surplus material from excavation dumping site to be located by the	ns and/or stock piles on site, to a e contractor	m3	1	
Keeping excavations free of wat	<u>er</u>			
Keeping excavations free of all v	vater other than subterranean water	Item	1	
Compaction of ground surfaces				
including scarifying for a depth of	ated ground surface under floors, if 150mm, breaking down oversize al where necessary and compacting to	m2	4	
FILLING				
	ed by the contractor in layers not npacted to 98% Mod AASHTO density:			
Backfilling to trenches		m3	1	
Selected Subgrade G5 material layers not exceeding 150mm thin AASHTO density.	in accordance with SABS 1 200 DM in ck and compacted to 95% Mod			
Under floors		m3	1	
Prescribed density tests on filling	1			
Modified AASHTO Density test		No	1	
REINFORCED CONCRETE				
25MPa/19mm concrete				
25Mpa/19mm Reinforced concre	ete in bottom slabs and footings	m3	1	
CONCRETE SUNDRIES				
Finishing top surfaces of concrequality "ABC Plate" floor hardeness accordance with the Engineer's				
Finishing concrete bottoms smo	-	m2	2	
	Carried Forward			
Section No. 5 SECTION 5 - EXTERNAL WOR				

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	
Rough formwork to sides			
REINFORCEMENT			
Weld Mesh Ref 193 in Concrete bottom slab	m2	5	
MASONRY			
SUPPLEMENTARY PREAMBLES			
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			
One brick walls	m2	2	
BRICKWORK SUNDRIES			
Brickwork reinforcement			
3 150mm Wide reinforcement built in horizontally every second course	m	12	
PLASTERING			
EXTERNAL PLASTER			
Cement plaster wood floated, on brickwork			
On walls	m2	2	
Gabion Mattress			
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>			
Manholes to engineers specification	No	5	
Carried Forward to Summary of Section No. 5	i		
Section No. 5 SECTION 5 - EXTERNAL WORKS			
Bill No. 1 Stormwater			

BILL NO. 2			
<u>APRONS</u>			
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.			
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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 Aprons			

Prescribed density tests on filling Modified AASHTO Density test REINFORCED CONCRETE 25MPa/19mm concrete Surface beds cast in panels on waterproofing Edge thickening CONCRETE SUNDRIES	No	3		
25MPa/19mm concrete Surface beds cast in panels on waterproofing Edge thickening			ı	
Surface beds cast in panels on waterproofing Edge thickening				
Edge thickening				
	m3	4		
CONCRETE SUNDRIES	m3	2		
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 a steel trowel to falls	m2	40		
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	6		
Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
12mm Joints not exceeding 300mm high	m	40		
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	27		
REINFORCEMENT				
REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40		
<u>WATERPROOFING</u>				
350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured)	m2	44		
SOAKAWAY				
<u>EXCAVATIONS</u>				
Excavation in compacted earth not exceeding 2m deep				
Excavation in earth not exceeding 2m deep for holes	m3	16		
Risk of collapse of excavations				
Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	16		
Compaction of ground surfaces				
Thoroughly compact backfilling materials	m2	16		
Carried Forward Section No. 5 SECTION 5 - EXTERNAL WORKS				

Brought Forward	[
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density			
Backfilling to holes	m3	8	
Earth filling with stone material supplied by the contractor:			
Under floors	m3	8	
Coarse river sand filling supplied by the contractor:			
Stone (>63mm)	m3	8	
<u>Membranes</u>			
Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces	m2	48	
<u>Tests</u>			
Percolation tests	Item	1	
Consided Forward to Commence of Continue No.			
Carried Forward to Summary of Section No. 5			
Section No. 5 SECTION 5 - EXTERNAL WORKS			

	ILL NO. 3			
v	VALKWAYS			
	SUPPLEMENTARY PREAMBLES			
	Seneral			
Т	hese quantities are measured in accordance with SANS 1200 specifications.			
b	The Contractor is to notify the Principal Agent immediately if a conflict etween the Engineer's Specification, Architectural Drawings and/or nese Bills of Quantities are found.			
0 0 0	the quantities are provisional and will be re-measured upon completion f the works. The Contractor shall not use these quantities for ordering f materials. The Contractor must immediately notify the Quantity surveyor if discrepancies are found between the quantities and/or escriptions in these Bills of Quantities and the Contractor's quantities neasured from construction drawings and specifications.			
	he total amount for the works should be included in the Tender mount.			
<u>C</u>	ONCRETE WALKWAY			
E	XCAVATIONS			
E	xcavation in compacted earth not exceeding 2m deep			
E	excavation in earth not exceeding 2m deep for trenches	m3	59	
E	extra over all excavations for carting away			
	surplus material from excavations and/or stock piles on site, to a umping site to be located by the contractor	m3	35	
F	tisk of collapse of excavations			
	tisk of collapse of sides of excavations not exceeding 1,5m deep	m2	92	
	tip and Re - compact insitu material on site compacted to 93% Mod. ASHTO density:			
ι	Inder floors	m2	138	
E	ILLING			
	arth filling (G7 material) supplied by the contractor in layers not xceeding 125mm thick and compacted to 98% Mod AASHTO density:			
i L	Inder floors	m3	17	
c	Over site of Selected Subgrade G5 material in accordance with SABS 1 00 DM in layers not exceeding 150mm thick and compacted to 95% dod AASHTO density.			
		m3	41	
٨	Inder floors			
ľ	Inder floors Coarse river sand filling supplied by the contractor:			

	Brought Forward			
Prescribed density tests on filling				
Modified AASHTO Density test		No	9	
SOIL POISONING				
Approved brand of anti-termite soil poison Control Company and guaranteed against ears:				
reat filling under paving with 'Chlordane h	Heptachlor Aldrin' or equal	m2	230	
50-175mm Tanalith Treated Gum Pole. p	oles not allowed to be cut			
t100mm long tanalith treated gum pole pla excavations, cartaways, concrete base etc		No	29	
CONCRETE TO WALKWAYS				
Construction of paving complete				
25MPa/19mm concrete				
Valkways		m3	21	
Reinforcement (Provisional)				
REF. 395 fabric reinforcement in concrete	infill, strip footings.	m²	138	
est blocks:				
Making and testing of 150x150x150mm co Provisional).	oncrete strength test cubes	No	4	
expansion joints with bitumen impregnated concrete or brick surfaces:	d softboard between vertical			
2mm Joints not exceeding 300mm high.		m	115	
wo-part grey polysulphide sealing compo	und including backing cord,			
0 x 12mm In movement joints in floors or expansion joint filler as necessary.	walls including raking out	m	115	
Vaterproofing under Surface beds				
50 Micron USB orange polyethylene dam accordance with SABS 952 Type C laid or neasured).		m²	138	
	Carried Forward			
Section No. 5				
SECTION 5 - EXTERNAL WORKS Valkways				

Brought Forward		
Carried Forward to Summary of Section No. 5		
Section No. 5		
Section No. 5 SECTION 5 - EXTERNAL WORKS		
Walkways		
Bill No. 3		

BILL NO. 4			
RAMPS			
Compaction of ground surfaces	0	_	
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	
<u>FILLING</u>			
Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:			
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.			
Under floors	m3	1	
Prescribed density tests on filling			
Modified AASHTO Density test	No	1	
REINFORCED CONCRETE			
25MPa/19mm concrete			
Ramps, Landings	m3	3	
CONCRETE SUNDRIES			
Finishing top surfaces of concrete smooth with a wood float:			
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			
2 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 Forwa	ard		
REINFORCEMENT			
REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	5	
<u>WATERPROOFING</u>			
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	o. 5		
Section No. 5 SECTION 5 - EXTERNAL WORKS Ramps			

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 hese 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. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be included in the Tender amount. The total amount for the works should be between posts with doubled a may alway and a sound staining wire and the post and	BILL NO. 5		
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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. Straining wires, fencing and razor wire: 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) 3 Strands of galvanised barbed wire tied to standards, posts and eye bolts Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 m 63 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) Posts for 1 800mm high security fence 60mm Diameter galvanised steel intermediate fencing post 2400mm 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 100mm Ditto as corner post, fitted with two 50mm 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	ENCING		
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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) 3 Strands of galvanised barbed wire tied to standards, posts and eye bolts Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 mm 63 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) Posts for 1 800mm high security fence 60mm Diameter galvanised steel intermediate fencing post 2400mm mm 25 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base 100mm Ditto as corner post, fitted with two 50mm 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	erected including removing trees, shrubs etc. not exceeding 200 mm	m2	63
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) 3 Strands of galvanised barbed wire tied to standards, posts and eye bolts 4 Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 mm 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) Posts for 1 800mm high security fence 6 60mm Diameter galvanised steel intermediate fencing post 2400mm 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 1 189 25 1 100mm Ditto as corner post, fitted with two 50mm 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	Straining wires, fencing and razor wire:		
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) Posts for 1 800mm high security fence 60mm Diameter galvanised steel intermediate fencing post 2400mm 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 100mm Ditto as corner post, fitted with two 50mm 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	encing posts with doubled 2 mm galvanised wire inserted through hole n 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	m	252
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) Posts for 1 800mm high security fence 60mm Diameter galvanised steel intermediate fencing post 2400mm molified 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 100mm Ditto as corner post, fitted with two 50mm 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	The state of the s	m	189
60mm Diameter galvanised steel intermediate fencing post 2400mm 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 100mm Ditto as corner post, fitted with two 50mm 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	300mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts	m	63
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 100mm Ditto as corner post, fitted with two 50mm 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	osts for 1 800mm high security fence		
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	ong 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		25
	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		2
Carried Forward	Carried Forward		
Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No.5	SECTION 5 - EXTERNAL WORKS		

Brought Forward			R	!
75mm Ditto as intermediate post - 1 dropper every 3000mm between standard posts	No	46		
150mm Ditto as gate post 2 400mm long, fitted with two 50mm 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.	No	2		
12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers	No	8		
Form 12mm diameter hole through fence post	No	8		
Gates				
Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	2		
Security fence single gate, size 1 000 mm wide x 1 800 mm high, 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	m	1		
PADLOCKS				
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 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):				
Off site to a dumping site to be found by the Contractor.	m³	18		
Filling supplied by the contractor under driveways				
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:				
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 tenvears:				
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				
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				

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Fencing				

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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
Allow for Profit on above two items	%IT	10%	R22 500,00	R2 250,
Carried to Final Summar	,			
Section No. 6 SECTION 6 - SOCIO ECONOMC DEVELOPMENT				

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:

- 1) 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;
- the provision of an area for office accommodation, temporary workshops and for the storage of plant and materials;
- 4) 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:
- 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;

Carried Forward

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

Brought Forward			R	
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				
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 000,0
Allow for Profit if required	%IT			
Desludging of Pit Toilets				
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,
Allow for Profit if required	%IT			
Carried to Final Summary				
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7 SECTION 7 - PRIME COST AND PROVISIONAL SUMS	53	 	
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	n		
Sub-Total			
Value Added Tax			
ADD: Value added Tax at 15%			
TOTAL			
Carried to Form of Tend	er		