

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>SECTION 1</p> <p>BILL NO. 1</p> <p>PRELIMINARIES</p> <p>MEANING OF TERMS "TENDER / TENDERER"</p> <p>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"</p> <p>PRELIMINARIES</p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"</p> <p>PRICING OF PRELIMINARIES</p> <p>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</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities</p> <p>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</p> <p>DEFINITIONS</p> <p>No clause Fixed: _____ Value related: _____ Time related: _____</p> <p>OBJECTIVE AND PREPARATION</p> <p>1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</p> <p>Clause 2.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>2 A3.0 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>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</p>				
	<p>Carried Forward</p>				
	<p>Section No. 1</p> <p>SECTION 1 - PRELIMINARY AND GENERAL</p> <p>Bill No. 1</p> <p>Preliminaries</p>				

Brought Forward				
<p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
3 A4.0 DESIGN RESPONSIBILITY				
<p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>No clause Fixed: _____ Value related: _____ Time related: _____</p>	Item			
4 A5.0 EMPLOYER'S AGENTS				
<p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
5 A6.0 SITE REPRESENTATIVE				
<p>Clause 6.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
6 A7.0 COMPLIANCE WITH REGULATIONS				
<p>Clause 7.0</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
7 A8.0 WORKS RISK				
<p>Clause 8.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
Carried Forward				
<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>				

Brought Forward				
8	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
9	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
10	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
11	<p>A13.0 No clause</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>EXECUTION</u></p> <p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
12	<p>A16.0 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
Carried Forward				
<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>				

		Brought Forward			
13	<p>A17.0 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
14	<p>A18.0 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
15	<p>A19.0 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
16	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
17	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
18	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
19	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
		Carried Forward			
<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>					

		Brought Forward		
27	<p>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</p> <p>Clause 32.0</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item	
28	<p>A33.0 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item	
29	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>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"</p> <p>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"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item	
30	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CANCELLATION</u></p>		Item	
31	<p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p>			
		Carried Forward		
<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>				

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

32 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

33 A40.0 DISPUTE SETTLEMENT

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"

Clause 40.6 is amended by removing the reference to:

No clause

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

		Brought Forward		
<u>SUBSTITUTE PROVISIONS</u>				
34	A41.0 STATE CLAUSES			
	Clause 41.0			
	Fixed: _____ Value related: _____ Time related: _____		Item	
<u>CONTRACT VARIABLES</u>				
35	A42.0 THE SCHEDULE (DPW-04EC)			
	Clause 42.0 Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract			
	Fixed: _____ Value related: _____ Time related: _____		Item	
<u>SECTION B: JBCC PRELIMINARIES</u>				
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>				
36	B1.1 Definitions and interpretation			
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section			
	Fixed: _____ Value related: _____ Time related: _____		Item	
<u>B2.0 DOCUMENTS</u>				
37	B2.1 Checking of documents			
	Fixed: _____ Value related: _____ Time related: _____		Item	
38	B2.2 Provisional bills of quantities			
	Fixed: _____ Value related: _____ Time related: _____		Item	
39	B2.3 Availability of construction documentation			
	Fixed: _____ Value related: _____ Time related: _____		Item	
40	B2.4 Interests of agents			
	Fixed: _____ Value related: _____ Time related: _____		Item	
41	B2.5 Priced documents			
	Fixed: _____ Value related: _____ Time related: _____		Item	
42	B2.6 Tender submission			
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"			
	Fixed: _____ Value related: _____ Time related: _____		Item	
		Carried Forward		
Section No. 1				
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		Brought Forward			
55	B4.2 Programme for the works				
	Fixed: _____ Value related: _____ Time related: _____		Item		
56	B4.3 Progress meetings				
	Fixed: _____ Value related: _____ Time related: _____		Item		
57	B4.4 Technical meetings				
	Fixed: _____ Value related: _____ Time related: _____		Item		
58	B4.5 Labour and plant records				
	Fixed: _____ Value related: _____ Time related: _____		Item		
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>					
59	B5.1 Samples of materials				
	Fixed: _____ Value related: _____ Time related: _____		Item		
60	B5.2 Workmanship samples				
	Fixed: _____ Value related: _____ Time related: _____		Item		
61	B5.3 Shop drawings				
	Fixed: _____ Value related: _____ Time related: _____		Item		
62	B5.4 Compliance with manufacturers' instructions				
	Fixed: _____ Value related: _____ Time related: _____		Item		
<u>B6.0 TEMPORARY WORKS AND PLANT</u>					
63	B6.1 Deposits and fees				
	Fixed: _____ Value related: _____ Time related: _____		Item		
64	B6.2 Advertising				
	Fixed: _____ Value related: _____ Time related: _____		Item		
65	B6.3 Advertising				
	Fixed: _____ Value related: _____ Time related: _____		Item		
66	B6.4 Plant, equipment, sheds and offices				
	Fixed: _____ Value related: _____ Time related: _____		Item		
		Carried Forward			
Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries					

	Brought Forward			
79	B10.2 Payment for preliminaries			
	Fixed: _____ Value related: _____ Time related: _____	Item		
80	B10.3 Adjustment of preliminaries			
	Fixed: _____ Value related: _____ Time related: _____	Item		
81	B10.4 Payment certificate cash flow			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B11.0 GENERAL</u>			
82	B11.1 Protection of the works			
	Fixed: _____ Value related: _____ Time related: _____	Item		
83	B11.2 Protection / isolation of existing / sectionally occupied works			
	Fixed: _____ Value related: _____ Time related: _____	Item		
84	B11.3 Security of the works			
	Fixed: _____ Value related: _____ Time related: _____	Item		
85	B11.4 Notice before covering work			
	Fixed: _____ Value related: _____ Time related: _____	Item		
86	B11.5 Disturbance			
	Fixed: _____ Value related: _____ Time related: _____	Item		
87	B11.6 Environmental disturbance			
	Fixed: _____ Value related: _____ Time related: _____	Item		
88	B11.7 Works cleaning and clearing			
	Fixed: _____ Value related: _____ Time related: _____	Item		
89	B11.8 Vermin			
	Fixed: _____ Value related: _____ Time related: _____	Item		
90	B11.9 Overhand work			
	Fixed: _____ Value related: _____ Time related: _____	Item		
91	B11.10 Instruction manuals and guarantees			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward			
	Section No. 1			
	SECTION 1 - PRELIMINARY AND GENERAL			
	Bill No. 1			
	Preliminaries			

		Brought Forward			
92	<p>B11.11 As built information</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
93	<p>B11.12 Tenant installations</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
<u>B12.0 SCHEDULE OF VARIABLES</u>					
94	<p>B12.1 Schedule of variables</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>					
<p>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p>					
95	<p>C1.0 CONTRACT DRAWINGS</p> <p>* 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</p> <p>* 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</p> <p>* 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</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
96	<p>C2.0 GENERAL PREAMBLES</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item		
97	<p>C3.0 TRADE NAMES</p> <p>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</p>				
		Carried Forward			
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Brought Forward				
	<p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
98	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</p> <p>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)</p> <p>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)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
99	<p>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
100	<p>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
101	<p>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
102	<p>C8.0 SECURITY CHECK OF PERSONNEL</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	Carried Forward			
<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>				

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103 **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 related: _____

Item

C10.1 AWARENESS CHAMPION

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

C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification

Fixed: _____ 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

		Brought Forward			
		<p>C10.5 MONITORING</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
104		<p>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>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)</p> <p>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</p> <p>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 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</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
105		<p>C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
106		<p>C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
		Carried Forward			
		<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>			

		Brought Forward			
107	<p>C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 5.3 f)</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
108	<p>C11.4 HEALTH AND SAFETY FILE (Construction Regulation 5.7)</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
109	<p>C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 6)</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
110	<p>C11.6 RISK ASSESSMENT AND SAFETY POLICY (Construction Regulation 7)</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
111	<p>C11.7 SIGNIFICANT HAZARDA IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
		Carried Forward			
<p>Section No. 1 SECTION 1 - PRELIMINARY AND GENERAL Bill No. 1 Preliminaries</p>					

Brought Forward

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**C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL
(Asbestos Regulation)**

The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for; NOTIFICATION OF ASBESTOS PROCESSING PERSONAL PROTECTIVE EQUIPMENT PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE DEMOLITION WORK OF SHEETS LABELLING AND INFORMATION

Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward to Summary of Section No. 1

SECTION SUMMARY - SECTION 1 - PRELIMINARY AND GENERAL

Page No

1 Preliminaries

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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.

1	Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director of his/her representative	Item	1
2	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Item	1
3	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	Months	3
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Months	3
5	Provision of full time Health and Safety Officer for the entire construction period.	Months	3

Carried Forward

Section No. 2

SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT

Bill No. 1

OHS and Environmental Management

		Brought Forward			
<p><u>Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific risk assessments:</u></p>					
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	Item	1		
<p>Carried Forward to Summary of Section No. 2</p>					
<p>Section No. 2 SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT Bill No. 1 OHS and Environmental Management</p>					

SECTION NO. 2

BILL NO. 2

HEALTH & SAFETY EDUCATION AND ENVIRONMENTAL MANAGEMENT

1 Allow for all COVID-19 awareness training

Months

3

COVID-19 HEALTH AND SAFETY WORK PRACTICES

2 Symptom screening of all site visitors upon arrival

Months

3

Carried Forward to Summary of Section No. 2

Section No. 2
SECTION 2 - OHS AND ENVIROMENTAL MANAGEMENT
Bill No. 2
Health & Safety Education and Environmental Management

**SECTION SUMMARY - SECTION 2 - OHS AND ENVIROMENTAL
MANAGEMENT**

Page No

- 1 OHS and Environmental Management
- 2 Health & Safety

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Carried to Final 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	132

Taking down and removing

4 Non compliant existing fence	m	50
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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
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11 Clean out pit latrine by desludging including removal of all debris and waste including soild waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat	item	1
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Carried Forward to Summary of Section No. 3

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

Fittings, 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.	m	3
2	Remove VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).	No	3

NEW SANITARY FITTINGS

Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins. Product and colour to Principal Agent's approval.

3	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors	No	3
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Carried Forward

Section No. 3

SECTION 3 - DEMOLITIONS & ALTERATIONS

Bill No. 2

Alterations

Brought Forward					
<u>Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:</u>					
	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		
<u>NEW SANITARY PLUMBING</u>					
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		
<u>NEW BATHROOM FITTINGS</u>					
<u>Satin Grey Plastics or equal approved</u>					
7	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	8		
<u>BOLTS:</u>					
8	50mm Alu/Metal holder bat to hold vent pipes against brick wall	No	57		
<u>ALLOWANCE FOR TEMPORARY TOILETS</u>					
9	Allow for temporary toilets for use during construction	Item	1	R 150 000,00	R 150 000,00
<u>METALWAORK</u>					
<u>STEEL BALUSTRADING</u>					
<u>GALVANISED STEEL BALUSTRADING</u>					
Welded balustrading to walkways					
10	Allow for Raking balustrading 1000mm high, complete with 50mm diameter handrail, fixed to detail	m	15		
<u>ON METAL SURFACES</u>					
One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel					
11	To steel balustrades (both sides measured)	m ²	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

- 1 Demolitions
- 2 Alterations

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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.

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	
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EXCAVATION, FILLING

EXCAVATIONS

Excavation in compacted earth not exceeding 2m deep

2 Trenches	m3	35	
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Carried Forward

Section No. 4

SECTION 4 - BUILDING WORKS (EXTERNAL)

Bill No. 1

Building works

Brought Forward		
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>		
3	Exceeding 1m and not exceeding 2m deep for building retaining walls,	m3 20
4	Extra over for excavation in soft rock	m3 2
5	Extra over for excavation in hard rock	m3 1
<u>Extra over all excavations for carting away</u>		
6	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3 20
<u>Risk of collapse of excavations</u>		
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2 130
<u>Keeping excavations free of water</u>		
8	Keeping excavations free of all water other than subterranean water	Item 1
<u>De-watering of seepage water and water from other subterranean sources in excavations</u>		
9	Provide pump with including maintenance and removal as per Principal Agents Approval	No 2
<u>Compaction of ground surfaces</u>		
10	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2 67
<u>FILLING</u>		
<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:</u>		
11	Backfilling to trenches	m3 21
<u>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</u>		
12	Backfilling behind retaining walls	m3 20
13	Over site to make up levels	m3 8
<u>Earth filling supplied by the contractor compacted to 90% Mod AASHTO density</u>		
14	Landscape mounds, berms,	m3 8
<u>Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO</u>		
15	Over site to make up levels	m3 2
<u>Prescribed density tests on filling</u>		
16	Modified AASHTO Density test	No 8
Carried Forward		
Section No. 4		
SECTION 4 - BUILDING WORKS (EXTERNAL)		
Bill No. 1		
Building works		

		Brought Forward	
<u>SUBSOIL DRAINAGE</u>			
Slotted PVC-U flexible drainage pipes			
<u>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:</u>			
17	20mm Stone.	m3	2
Membrane			
18	Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	36
<u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>			
19	110mm uPVC pipe.	m	50
<u>Extra over fittings</u>			
20	110mm Tee.	No	10
21	110mm Y junction.	No	10
<u>SOIL POISONING</u>			
<u>Soil insecticide in accordance with SANS 5859</u>			
22	Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	180
23	To bottoms and sides of trenches	m2	130
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
The Concrete works shall be in accordance with the Engineer's specifications as per Annexures "Part D.9 - Concrete Specifications" and "Part D.10 - Industrial Floor Specifications" appended hereto. The Contractor is to notify the Principal Agent immediately if a conflict between the Engineer's Specification, Architectural Drawings and/or these Bills of Quantities are found.			
The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.			
Components cast against excavated surfaces have not been measured or described separately and the Contractor is to ensure adequate allowance for casting against excavated surfaces are made within the relevant items.			
<u>Concrete</u>			
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		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>		
<u>Rough formwork to sides</u>		
28	Strip footing and ramps (Provisional)	m2 4
<u>MOVEMENT JOINTS</u>		
<u>Isolation joints formed of 20 x 12mm deep silicone sealant, backing rope and closed cell polyurethane joint former</u>		
29	Between concrete surface bed and/or raft foundation and brick walls.	m 130
<u>Saw-cut joints</u>		
30	3 x 50mm deep Saw-cut joints in top of concrete filled with an approved semi-rigid sealer	m 25
<u>REINFORCEMENT</u>		
<u>Provision for high tensile steel reinforcement</u>		
31	Varying diameters in bases and structural concrete work	t 2
<u>MASONRY</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
<u>BRICKWORK</u>		
<u>General</u>		
<p>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.</p>		
<u>Sizes in descriptions</u>		
<p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p>		
<u>Face bricks</u>		
<p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>		
<u>Pointing</u>		
<p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing</p>		
Carried Forward		
<p>Section No. 4 SECTION 4 - BUILDING WORKS (EXTERNAL) Bill No. 1 Building works</p>		

Brought Forward		
<u>BRICKWORK</u>		
<u>FOUNDATIONS (PROVISIONAL)</u>		
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all purpose cement):</u>		
32	One brick walls	m2 21
<u>SUPERSTRUCTURE</u>		
<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</u>		
33	One brick walls	m2 95
<u>FACE BRICKWORK</u>		
<u>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)</u>		
34	One brickwall faced on both sides.	m2 112
<u>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:</u>		
35	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m 130
<u>BRICKWORK SUNDRIES</u>		
<u>Brickwork reinforcement</u>		
36	150mm Wide reinforcement built in horizontally every second course	m 659
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

1	Excavation in earth not exceeding 2m deep for trenches	m3	12	
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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	4	
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Risk of collapse of excavations

3	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	10	
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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	24	
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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	4	
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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	4	
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Filling of 150mm Gravel Wearing Course Compacted To 95% Mod AASHTO

Carried Forward

Section No. 5

SECTION 5 - EXTERNAL WORKS

Bill No. 1

Stormwater

		Brought Forward			
7	Over site to make up levels <u>Prescribed density tests on filling</u>	m3	2		
8	Modified AASHTO Density test <u>REINFORCED CONCRETE</u> <u>25MPa/19mm concrete</u>	No	2		
9	25MPa/19mm reinforced concrete in bottoms and sides <u>CONCRETE SUNDRIES</u> <u>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</u>	m3	4		
10	Finishing concrete bottoms smooth with a steel trowel to falls <u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u> <u>Rough formwork to sides</u>	m2	24		
11	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	10		
12	Smooth formwork to sides above sloping bottoms <u>MOVEMENT JOINTS</u> <u>Isolation joints formed of 10 x 12mm deep silicone sealant, backing rope and closed cell polyurethane joint former</u>	m2	10		
13	Expansion joints with soft board through concrete bottoms not exceeding 300mm high	m	10		
14	Expansion joints with soft board through concrete sides of channels not exceeding 300mm wide <u>REINFORCEMENT</u>	m	10		
15	Type 617 fabric reinforcement in concrete placed 40mm from the Top	m2	24		
16	Angle section galvanised steel bearers with flat section bent lugs each welded, including embedding in concrete	kg	30		
17	Extra over for mitred and welded L-intersection <u>CONCRETE STORMWATER V DRAIN</u> <u>EXCAVATIONS</u> <u>Excavation in compacted earth not exceeding 2m deep</u>	No	2		
18	Excavation in earth not exceeding 2m deep for trenches <u>Risk of collapse of excavations</u>	m3	47		
19	Risk of collapse of sides of excavations not exceeding 1,5m deep <u>Compaction of ground surfaces</u>	m2	88		
20	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	94		
Carried Forward					
Section No. 5 SECTION 5 - EXTERNAL WORKS Bill No. 1 Stormwater					

		Brought Forward			
		<u>FILLING</u>			
		<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:</u>			
21	Backfilling under floors	m3	14		
		<u>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.</u>			
22	under floors	m3	14		
		<u>Prescribed density tests on filling</u>			
23	Modified AASHTO Density test	No	6		
		<u>REINFORCED CONCRETE</u>			
		<u>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</u>			
24	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface	m	110		
25	Extra for 700mm angle	m	19		
26	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	2		
		<u>CONCRETE SUNDRIES</u>			
		<u>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</u>			
27	Finishing concrete bottoms smooth with a steel trowel to falls	m2	94		
		<u>TEST CUBES</u>			
28	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
		Carried Forward			
Section No. 5					
SECTION 5 - EXTERNAL WORKS					
Bill No. 1					
Stormwater					

		Brought Forward			
39	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	5		
40	<u>Rough formwork to sides</u>				
	<u>REINFORCEMENT</u>				
	Weld Mesh Ref 193 in Concrete bottom slab	m2	5		
41	<u>MASONRY</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>SUPERSTRUCTURE</u>				
	<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.</u>				
42	One brick walls	m2	2		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
43	150mm Wide reinforcement built in horizontally every second course	m	12		
	<u>PLASTERING</u>				
	<u>EXTERNAL PLASTER</u>				
	<u>Cement plaster wood floated, on brickwork</u>				
44	On walls	m2	2		
	<u>Gabion Mattress</u>				
45	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2		
	<u>Manholes</u>				
46	Manholes to engineers specification	No	5		
Carried Forward to Summary of Section No. 5					
Section No. 5					
SECTION 5 - EXTERNAL WORKS					
Bill No. 1					
Stormwater					

SECTION NO. 5

BILL NO. 2

APRONS

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 APRONS

EXCAVATIONS

Excavation in compacted earth not exceeding 2m deep

1	Excavation in earth not exceeding 2m deep for trenches	m3	15
---	--	----	----

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	5
---	---	----	---

Risk of collapse of excavations

3	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	30
---	--	----	----

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	50
---	---	----	----

FILLING

Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:

5	Under floors	m3	8
---	--------------	----	---

Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.

6	Under floors	m3	8
---	--------------	----	---

Coarse river sand filling supplied by the contractor:

7	Under floors	m3	1
---	--------------	----	---

Carried Forward

Section No. 5

SECTION 5 - EXTERNAL WORKS

Bill No. 2

Aprons

		Brought Forward			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
21	Backfilling to holes	m3	8		
	<u>Earth filling with stone material supplied by the contractor:</u>				
22	Under floors	m3	8		
	<u>Coarse river sand filling supplied by the contractor:</u>				
23	Stone (>63mm)	m3	8		
	<u>Membranes</u>				
24	Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces. .	m2	48		
	<u>Tests</u>				
25	Percolation tests	Item	1		
Carried Forward to Summary of Section No. 5					
Section No. 5					
SECTION 5 - EXTERNAL WORKS					
Bill No. 2					
Aprons					

SECTION NO. 5

BILL NO. 3

WALKWAYS

SUPPLEMENTARY PREAMBLES

General

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The total amount for the works should be included in the Tender amount.

CONCRETE WALKWAY

EXCAVATIONS

Excavation in compacted earth not exceeding 2m deep

1	Excavation in earth not exceeding 2m deep for trenches	m3	56
---	--	----	----

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	33
---	---	----	----

Risk of collapse of excavations

3	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	110
---	--	----	-----

Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density.

4	Under floors	m2	132
---	--------------	----	-----

FILLING

Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:

5	Under floors	m3	17
---	--------------	----	----

Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.

6	Under floors	m3	40
---	--------------	----	----

Coarse river sand filling supplied by the contractor:

7	Under floors	m3	3
---	--------------	----	---

Carried Forward

Section No. 5

SECTION 5 - EXTERNAL WORKS

Walkways

Bill No. 3

Brought Forward

Carried Forward to Summary of Section No. 5

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

SECTION NO. 5

BILL NO. 4

RAMPS

Compaction of ground surfaces

1	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	5
---	---	----	---

FILLING

Earth filling (G7 material) supplied by the contractor in layers not exceeding 125mm thick and compacted to 98% Mod AASHTO density:

2	Under floors	m3	1
---	--------------	----	---

Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.

3	Under floors	m3	1
---	--------------	----	---

Prescribed density tests on filling

6	Modified AASHTO Density test	No	1
---	------------------------------	----	---

REINFORCED CONCRETE

25MPa/19mm concrete

7	Ramps, Landings	m3	3
---	-----------------	----	---

CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float:

8	Surface beds, slabs to falls and currents	m2	5
---	---	----	---

TEST CUBES

9	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1
---	--	----	---

ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

10	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high	m2	4
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MOVEMENT JOINTS

Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:

11	12mm Joints not exceeding 300mm high	m	3
----	--------------------------------------	---	---

Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

12	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3
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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

SECTION NO. 5

BILL NO. 5

FENCING

SUPPLEMENTARY PREAMBLES

General

These quantities are measured in accordance with SANS 1200 Specifications.

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The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.

The total amount for the works should be included in the Tender amount.

FENCING

Site clearance

1	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	63	
---	---	----	----	--

Straining wires, fencing and razor wire:

2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured)	m	252	
---	---	---	-----	--

3	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	189	
---	--	---	-----	--

4	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured)	m	63	
---	---	---	----	--

Posts for 1 800mm high security fence

5	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	m	25	
---	---	---	----	--

6	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 last.	No	2	
---	--	----	---	--

Carried Forward

Section No. 5

SECTION 5 - EXTERNAL WORKS

Bill No.5

Fencing

		Brought Forward			
7	75mm Ditto as intermediate post - 1 dropper every 3000mm between standard posts	No	46		
8	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		
9	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers	No	8		
10	Form 12mm diameter hole through fence post	No	8		
<u>Gates</u>					
11	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	2		
12	Security fence single gate, size 1 000 mm wide x 1 800 mm high, 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		
<u>PADLOCKS</u>					
13	Supply 50 mm "Viro" Padlocks and Keys (or equal approved	m	1		
<u>ACCESS DRIVEWAY, ETC.</u>					
<u>Excavation not exceeding 2m deep</u>					
14	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	35		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
15	Off site to a dumping site to be found by the Contractor.	m ³	18		
<u>Filling supplied by the contractor under driveways</u>					
16	G7 Base course material compacted to 98% Mod AASHTO density	m ³	6		
<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>					
17	Under floors,etc.	m ²	40		
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>					
18	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m ²	40		
<u>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</u>					
19	Vehicular entrance gate 6000mm wide complete with motor.	No	1		
Carried Forward to Summary of Section No. 5					
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Fencing					

SECTION SUMMARY - SECTION 5 - EXTERNAL WORKS

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Carried to Final Summary

SECTION NO. 6

BILL NO. 1

SITE PERSONNEL

COMMUNITY LIAISON OFFICER

1	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	R 22 500,00	R 22 500,00
2	Allow for Profit on above two items	%IT		

Carried to Final Summary

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;
- 3) 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

- 9) hoisting of the sub-contractor's material in loads not exceeding the available hoisting loads of cranes of the contractor;
- 10) repairs and making good in all trades and final cleaning down on completion.

Fuel, power and water for commissioning plant

The cost of fuel, power and water for the commissioning of plant shall be borne by the sub-contractor appointed for the relevant sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved. The contractor shall allow opposite this item or under the relevant attendance items for the recovery of such costs via the installation of the necessary meters

Work executed by direct contractors

Work listed under the heading "Work executed by direct contractors" shall be executed before and during this contract and the tenderer must allow free access to the site for such other contractors. These contractors shall be directly paid by the client and the tenderer must allow for programming in conjunction with them to complete the project successfully within the contract period. The estimated values of these contracts are listed to enable the tenderer to determine the extent of the attendance if required. Profit on these contracts shall not be allowed.

Budgetary allowances

Budgetary allowances shall be re-measured and valued on the same pricing structure as the rest of the contract or shall be omitted in full if so required.

Landscaping and Irrigation

1	Provide the sum of R50 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required.	Item	1	R	50 000,00	R	50 000,00
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	R	120 000,00	R	120 000,00
2	Allow for Profit if required	%IT					

Carried to Final Summary

FINAL SUMMARY

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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