

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.			
	2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.			
	3. Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.			
	4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.			
	5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.			
	6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.			
	Carried Forward			
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Brought Forward 7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended. 8. Where any item is not relevant to this specific contract, such item is marked N/A. 9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time. <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> <u>DEFINITIONS</u> Definitions and interpretation (Clause 1). 1 F: V: T: <u>OBJECTIVE AND PREPARATION</u> Offer, acceptance and performance (Clause 2). 2 F: V: T: Carried Forward Section No. 1 Bill No. 1 Preliminaries		R	
		R	

	Brought Forward		R
	Documents (Clause 3). Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.' Clause 3.3 is deleted and substituted with: The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.		
3	F: V: T: Design responsibility (Clause 4).	Item	
4	F: V: T: Employer's agents (Clause 5).	Item	
5	F: V: T: Site representative (Clause 6).	Item	
6	F: V: T: Compliance with regulations (Clause 7).	Item	
7	F: V: T: Works risk (Clause 8)	Item	
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item	
9	F: V: T: Works insurances (Clause 10).	Item	
10	F: V: T:	Item	
	Carried Forward		R
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Brought Forward		R
	Liability insurances (Clause 11).	
11	F: V: T:	Item
	Effecting insurances (Clause 12).	
12	F: V: T:	Item
	State Provisions (Clause 13).	
13	F: V: T:	Item
	Security (Clause 14).	
14	F: V: T:	Item
<u>EXECUTION</u>		
	Preparation for and execution of the works (Clause 15).	
15	F: V: T:	Item
	Access to the works (Clause 16).	
16	F: V: T:	Item
	Contract instructions (Clause 17).	
17	F: V: T:	Item
	Setting out of the works (Clause 18.3).	
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	
18	F: V: T:	Item
	Assignment (Clause 19).	
Carried Forward		R
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	Brought Forward		R	
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).			
24	F: V: T: Works completion (Clause 25).	Item		
25	F: V: T: Final completion (Clause 26). Latent defects liability period (Clause 27).	Item		
Carried Forward			R	
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Brought Forward			R
	Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"		
26	F: V: T: Sectional completion (Clause 28).	Item	
27	F: V: T: Revision of date for practical completion (Clause 29).	Item	
28	F: V: T: Penalty for non-completion (Clause 30).	Item	
29	F: V: T:	Item	
Carried Forward			R
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	Brought Forward		R	
	<u>PAYMENT</u>			
	Interim payment to the contractor (Clause 31). The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing. Adjustment to the contract value (Clause 32).			
30	F: V: T: Recovery of expense and loss (Clause 33).	Item		
31	F: V: T: Final account and final payment (Clause 34).	Item		
32	F: V: T: Payment to other parties (Clause 35).	Item		
33	F: V: T:	Item		
	<u>CANCELLATION</u>			
	Cancellation by Employer - Contractor's default (Clause 36).			
34	F: V: T:	Item		
	Cancellation by Employer - Loss and damage (Clause 37).			
35	F: V: T:	Item		
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Brought Forward <u>CONTRACT DETAILS (Clause 42.2)</u> Clause 42.2.1 Works Description: Construction of new ablution facilities. Clause 42.2.2 Site Description: The site is the existing school Clause 42.2.3 Work or Installations by Others: NIL Clause 42.2.4 This Agreement is for a State Contract :- Yes Payment will be made for materials and goods:- Yes Dispute resolution :- Mediation (in terms of clause 40) followed by litigation. Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A Clause 42.2.5 Date on which possession of the site is intended to be given on :- To be advised. Clause 42.2.6 Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days. Completion in Sections are required : NO Clause 42.2.7 Intended date of practical completion and the penalty per calendar day for the works as a whole :- To be advised Penalty amount will be 5,75c/R100 of Contract Sum. Clause 42.2.8 Intended dates of practical completion and the penalties per calendar day for the works in sections : N/A Clause 42.2.9 The law applicable to this agreement shall be that of - Republic of South Africa.		R	
Carried Forward Section No. 1 Bill No. 1 Preliminaries		R	

	Brought Forward		R
	<u>INSURANCES (Clause 42.3)</u> Clause 42.3.1 Contract works insurance to be effected by Contractor for the sum of: Contract Sum With a deductible of : Not exceeding 5% of each and every claim. Clause 42.3.2 Supplementary insurance is required : Yes SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy). Clause 42.3.3 Public liability insurance to be effected by Contractor For the amount of: R 5million With a deductible of: Not exceeding 5% of each and every claim. <u>DOCUMENTS (Clause 42.4)</u> Clause 42.4.1 Waiver of the contractor's lien is required :- YES Clause 42.4.2 Number of construction document copies to be supplied to the Contractor free of charge :- 1 Clause 42.4.3 Bills of Quantities drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments Clause 42.4.4 Number of days for submission of priced documents : 5 working days from the Letter of Appointment. Clause 42.4.5 JBCC Engineering General Conditions are to be included in the documents :- No Clause 42.4.6 The contract value is to be adjusted using CPAP:- NO		
41	F: V: T:	Item	
	<u>SECTION B: PRELIMINARIES</u> <u>DEFINITIONS AND INTERPRETATION (B1)</u> Definitions and Interpretation (B1)		
	Carried Forward		R
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Brought Forward		R
<u>DOCUMENTS (B2)</u>		
Checking of documents (B2.1)		
Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.		
42	F: V: T: Provisional Bills of Quantities (B2.2) YES Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.	Item
43	F: V: T: Availability of construction documentation (B2.3)	Item
44	F: V: T: Interests of Agents (B2.4)	Item
45	F: V: T: Priced documents (B2.5)	Item
46	F: V: T: Tender submission (B2.6)	Item
Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.		
47	F: V: T:	Item
Carried Forward		R
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Brought Forward			R
<u>THE SITE (B3)</u>			
Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: V: T:	Item	
Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.			
49	F: V: T:	Item	
Inspection of the Site (B3.3)			
50	F: V: T:	Item	
Existing premises occupied (B3.4)			
51	F: V: T:	Item	
Previous work - dimensional accuracy (B3.5)			
52	F: V: T:	Item	
Previous work - defects (B3.6)			
53	F: V: T:	Item	
Services - known (B3.7)			
54	F: V: T:	Item	
Services - unknown (B3.8)			
55	F: V: T:	Item	
Protection of trees (B3.9)			
Carried Forward			R
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Brought Forward			R
56	F: V: T: Articles of value (B3.10)	Item	
57	F: V: T: Inspection of adjoining properties (B3.11)	Item	
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item	
59	F: V: T: Programme for the Works (B4.2)	Item	
60	F: V: T: Progress meetings (B4.3)	Item	
61	F: V: T: Technical meetings (B4.4)	Item	
62	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item	
63	F: V: T: Workmanship samples (B5.2)	Item	
64	F: V: T: Shop drawings (B5.3)	Item	
65	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	Item	
Carried Forward			R
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Brought Forward			R
66	F: V: T: Enclosure of the works (B6.2) The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others. F: V: T: Advertising (B6.3)	Item	
67	F: V: T: Plant and equipment (B6.4)	Item	
68	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item	
69	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item	
70	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)	Item	
71	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
72	F: V: T: Electricity (B7.3)	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries			

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	Brought Forward		R	
73	The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	m		
74	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
75	F: V: T: Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
76	F: V: T: <u>PRIME COST AMOUNTS (B8)</u> Responsibility for prime cost amounts (B8.1)	Item		
77	F: V: T: <u>ATTENDANCE ON N/S SUB CONTRACTORS (B9)</u> General Attendance (B9.1)	Item		
78	F: V: T: Special Attendance (B9.2)	Item		
79	F: V: T: Commissioning - fuel, water and power (B9.3)	Item		
80	F: V: T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

Brought Forward		R
<u>FINANCIAL ASPECTS (B10)</u>		
Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).		
81	F: V: T: Payment of Preliminaries (B10.2)	Item
82	F: V: T: Adjustment of Preliminaries (B10.3)	Item
83	F: V: T: Payment certificate cash flow (B10.4)	Item
84	F: V: T: Contractor information supply (B10.5)	Item
85	F: V: T:	Item
<u>GENERAL (B11)</u>		
Protection of the Works (B11.1)		
86	F: V: T:	Item
Protection/isolation of existing/sectionally occupied works (B11.2)		
87	F: V: T:	Item
Site security (B11.3)		
88	F: V: T:	Item
Notice before covering work (B11.4)		
89	F: V: T:	Item
Disturbance (B11.5)		
90	F: V: T:	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		

	Brought Forward		R
	C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book: The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his countersignature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.		
100	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item	
101	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item	
102	F: V: T:	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

	Brought Forward		R
	C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.		
103	F: V: T: C10. Method Statement The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.	Item	
104	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item	
105	F: V: T:	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

Brought Forward		R
106	C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost. F: V: T:	Item
107	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith. F: V: T:	Item
108	<u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18] F: V: T:	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		

Brought Forward			R
<u>C15. Storage Facilities</u>			
The Contractor shall provide a Container for storage of materials.			
109	F: V: T:	Item	
C16. Removal and Making Good of Temporary Works, etc, on Completion			
The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting there from.			
110	F: V: T:	Item	
111	SUB - TOTAL: FIXED ITEMS	Item	
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item	
113	SUB - TOTAL: TIME - RELATED ITEMS	Item	
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Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 2</u>			
<u>HEALTH AND SAFETY</u>			
<u>MODEL PREAMBLES</u>			
Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.			
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
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.			
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety 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.			
The costs included herein must incorporate Community Liaison Officer (CLO).			
<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
Carried Forward			R
Section No. 1 Bill No. 2 Health and Safety			

ZAKHELE JUNIOR SECONDARY SCHOOL
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Brought Forward			R
<u>General:</u>			
1	Preparation of Contractor's site specific Health and Safety Plan	Item	
2	Submission of the Health and Safety File	Item	
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item	
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item	
5	Provision of full time Health and Safety Officer for the entire construction period.	Item	
6	Induction training of all personnel	No 1	
7	Provision of first aid boxes.	No 1	
8	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	m 400	
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No 1	
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>			
10	Reflective vests	No 20	
11	Hard hats.	No 20	
12	Protective foot wear.	No 20	
13	Ear Plugs	No 20	
14	Dust Masks.	No 20	
<u>Costs of Medical Certificates and Medical Surveillance:</u>			
15	Initial (baseline) medical examinations for all personnel	No 1	
Carried Forward			R
Section No. 1 Bill No. 2 Health and Safety			

ZAKHELE JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE
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Brought Forward			R
16	Exit Examinations for all personnel.	No	1
<u>Noise Monitoring:</u>			
17	Establishment of noise zones.	No	2
18	Audiograms.	No	20
<u>C16. Covid-19 Compliance Measures</u>			
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.		Item
Carried Forward to Summary of Section No. 1			R
Section No. 1			
Bill No. 2			
Health and Safety			

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Brought Forward			R
	<u>Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:</u>		
4	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3
	<u>SANITARY PLUMBING</u>		
	<u>PVC waste or vent pipes and fittings:</u>		
5	50mm Waste pipe	m	30
	<u>Extra over for:</u>		
6	50mm Bend	No	4
7	50mm Access bend	No	4
Carried to Final Summary			R
Section No. 2			
Bill No. 1			
Alterations (Provisional)			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>EXTERNAL WORKS</u>			
	<u>MODEL PREAMBLES</u>			
	Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.			
	<u>STORM WATER CHANNELS</u>			
	<u>Excavation not exceeding 2m deep</u>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site	m3	10	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
2	Off site to a dumping site to be found by the Contractor	m3	10	
	<u>Filling supplied by the contractor under channels</u>			
3	G7 Base course material compacted to 98% Mod AASHTO density	m3	3	
4	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	m3	1	
	<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open storm water channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster</u>			
5	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all form work, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	98	
6	Extra for 700mm angle	No	6	
	Carried Forward		R	
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	Brought Forward			R
7	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	6	
8	7m x 3m Reno mattresses to ends of storm water channels	No	3	
<u>THE FOLLOWING IN DISABLED ACCESS</u>				
<u>ACCESS RAMPS</u>				
<u>Excavation not exceeding 2m deep</u>				
9	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	2	
<u>Extra over bulk excavations in earth for breaking up and removing</u>				
10	Brickwork	m2	6	
11	Unreinforced concrete	m3	1	
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
12	Off site to a dumping site to be found by the contractor	m3	1	
<u>Filling supplied by the contractor under floors, aprons, etc</u>				
13	G7 Base course material compacted to 98% Mod AASHTO density	m3	1	
14	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	m3	1	
<u>Coarse river sand filling supplied by the contractor</u>				
15	Under floors etc.	m3	1	
Carried Forward				R
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Brought Forward			R
<u>Compaction of surfaces:</u>			
16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	6
<u>Prescribed density tests on filling:</u>			
17	In-situ dry density test	No	1
<u>Reinforced 25Mpa/19mm Concrete</u>			
18	Ramps, Landings, etc.	m3	1
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
19	Surface beds, slabs, etc to falls and currents.	m2	6
<u>Test blocks:</u>			
20	Making and testing of 150x150x150mm concrete strength test cubes	No	1
<u>Expansion joints with bitumen impregnated soft board between vertical concrete or brick surfaces:</u>			
21	12mm Joints not exceeding 300mm high	m	6
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
22	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary	m	6
<u>Fabric reinforcement</u>			
23	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	6
<u>STORM WATER APRONS</u>			
Carried Forward			R
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Brought Forward				R
	<u>Excavation not exceeding 2m deep</u>			
24	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	10	
	<u>Extra over bulk excavations in earth for breaking up and removing</u>			
25	Unreinforced concrete	m3	8	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
26	Off site to a dumping site to be found by the contractor	m3	8	
	<u>Filling supplied by the contractor under floors, aprons, etc</u>			
27	G7 Base course material compacted to 98% Mod AASHTO density	m3	8	
28	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	m3	3	
	<u>Coarse river sand filling supplied by the contractor</u>			
29	Under floors etc.	m3	1	
	<u>Compaction of surfaces:</u>			
30	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	115	
	<u>Prescribed density tests on filling:</u>			
31	In-situ dry density test	No	4	
	<u>Reinforced 25Mpa/19mm Concrete</u>			
32	Ramps, Landings, etc.	m3	3	
Carried Forward				R
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	Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
33	Surface beds, slabs, etc to falls and currents.	m2	115		
	<u>Test blocks:</u>				
34	Making and testing of 150x150x150mm concrete strength test cubes	No	3		
	<u>Expansion joints with bitumen impregnated soft board between vertical concrete or brick surfaces:</u>				
35	12mm Joints not exceeding 300mm high	m	15		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
36	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary	m	15		
	<u>Fabric reinforcement</u>				
37	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	150		
	<u>THE FOLLOWING IN SUB-SOIL DRAINAGE</u>				
	<u>Site Clearance etc.</u>				
38	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20		
	<u>Excavation in earth not exceeding 2m deep:</u>				
39	Trenches	m3	3		
	<u>Extra over all excavations for carting away:</u>				
40	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	3		
	Carried Forward			R	
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Brought Forward			R
<u>Risk of collapse of excavations:</u>			
41	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	6
42	Ditto, but from ground level to exceeding 1,5m	m2	3
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density</u>			
43	Backfilling to trenches, holes, etc.	m3	3
<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>			
44	19mm Stone	m3	6
<u>Membrane</u>			
45	Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching	m2	20
<u>Keeping excavations free of water:</u>			
46	Keeping excavations free from mud and all water including subterranean sources	Item	
<u>Compaction of surfaces</u>			
47	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	20
<u>SOIL DRAINAGE</u>			
<u>160mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material</u>			
48	160mm uPVC pipe	m	15
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Brought Forward			R
<u>Extra over for</u>			
49	160mm Tee	No	3
50	160mm Bend	No	4
<u>CULVERTS</u>			
<u>Class 50D concrete pipes:</u>			
51	450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction	m	10
<u>MANHOLES</u>			
52	Excavation not exceeding 2m deep	m3	3
53	Risk of collapse not exceeding 1,5m deep	m2	2
54	Keeping excavations free from water	Item	
55	Carting away surplus excavated material	m3	4
56	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1
57	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab	m3	1
58	25Mpa/19mm Reinforced concrete in bottom slabs and footings	m3	1
59	Form work to edges, risers, ends and reveals not exceeding 300mm wide or high	m	7
60	Weld Mesh Ref 193 in Concrete bottom slab	m2	3
61	One brick wall of 14 MPa NFX bricks	m2	6
62	230mm Wide reinforcement built in horizontally	m	4
63	Plaster on brick walls	m2	6
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	Brought Forward			R
64	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar	m2	3	
65	Manhole locking mechanism	No	3	
<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
66	Trenches	m3	10	
<u>Extra over all excavations for carting away:</u>				
67	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	10	
<u>Risk of collapse of excavations:</u>				
68	Sides of trench and hole excavations not exceeding 1,5m deep	m2	15	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
69	Backfilling to trenches, holes, etc.	m3	10	
<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
70	Under footings	m3	3	
<u>Compaction of surfaces</u>				
71	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	13	
<u>25 Mpa/19mm Concrete</u>				
72	Strip footings	m3	2	
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Brought Forward			R
<u>Test blocks:</u>			
73	Making and testing of 150x150x150mm concrete strength test cubes (Provisional)	No	1
<u>Reinforcement (Provisional)</u>			
74	High tensile steel reinforcement bars to structural concrete work	t	0.08
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all purpose cement):</u>			
75	One brick walls	m2	10
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all purpose cement):</u>			
76	One brick walls	m2	13
<u>Brickwork reinforcement</u>			
77	230mm Wide reinforcement built in horizontally	m	33
78	Ditto but in foundations	m	17
<u>FACE BRICK</u>			
<u>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>			
79	One brickwall faced on both sides	m2	26
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	<u>Brick-on-edge header course copings, sills, etc, equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>		
80	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	39
	<u>SOAK AWAY</u>		
	<u>Site Clearance etc.</u>		
81	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	4
	<u>Excavation in earth not exceeding 2m deep</u>		
82	Holes	m3	4
	<u>Extra over all excavations for carting away</u>		
83	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	4
	<u>Risk of collapse of excavations</u>		
84	Sides of trench and hole excavations	m2	12
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>		
85	Backfilling to holes	m3	4
	<u>Earth filling with stone material supplied by the contractor</u>		
86	Stone (>53mm)	m2	4
	<u>Membranes</u>		
87	BidimGeotextile or equal approved, lined on all sides including the top and bottom faces	m2	12
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