

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
AND SURROUNDING WALLS AT THE OLD FORT, CONSTITUTION HILL - BOQ**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>SECTION NO.1: PRELIMINARIES AND GENERAL</p> <p>BILL NO: 1</p> <p>BUILDING AGREEMENT AND PRELIMINARIES</p> <p>The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p> <p>PREAMBLES FOR TRADES</p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>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</p> <p>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</p> <p>STRUCTURE OF THIS PRELIMINARIES BILL</p> <p>Section A : A recital of the headings of the individual clauses in the aforementioned JBCC Principal Building Agreement</p> <p>Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries</p> <p>Section C : Any special clauses to meet the particular circumstances of the project</p> <p>PRICING OF PRELIMINARIES</p> <p>Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p>				

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1	<p>SECTION A: PRINCIPAL BUILDING AGREEMENT Interpretation (A1-A7) Clause 1.0 - Definitions and interpretation Pricing of bills of quantities</p> <p>The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary Abbreviated descriptions</p> <p>The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice Legal status of contractor If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then: 1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement 2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons 3. The contractor shall not alter its composition or legal status without the prior written consent of the employer F:..... V:..... T:.....</p>				
2	<p>Clause 2.0 - Law, regulations and notices Clause 3.0 - Offer and acceptance F:..... V:.....</p>	Item	1		
3	<p>T:..... Clause 4.0 - Cession and assignment F:.....</p>	Item	1		
4	<p>V:..... T:.....</p>	Item	1		
5	<p>Clause 5.0 - Documents Value Added Tax Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any Electronic issue of drawings All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6] F:..... V:..... T:.....</p>				
6	<p>Clause 6.0 - Employer's agents Delegated authority The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions:</p>	Item	1		

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	<p>1. Architect</p> <p>1.1 Duties [6.2] : The architect is responsible for the architectural design, functional design and quality inspection of the works</p> <p>1.2 Contract instructions [6.2; 17.1] :</p> <p>1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>1.2.3 The site [13.0]</p> <p>1.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>1.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>1.2.7 Removal or re-execution of work</p> <p>1.2.8 Removal or substitution of any materials and goods</p> <p>1.2.9 Protection of the works</p> <p>1.2.10 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>1.2.11 Rectification of defects [21.2]</p> <p>1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>1.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>1.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>1.2.15 Work by direct contractors [16.0]</p> <p>1.2.16 On suspension or termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]</p> <p>2. Quantity surveyor</p> <p>2.1 Duties [6.2] : The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works</p> <p>2.2 Contract instructions [6.2; 17.1] :</p> <p>2.2.1 No contract instructions delegated to the quantity surveyor</p> <p>3. Civil and structural engineer</p> <p>User note</p> <p>Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent</p> <p>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</p> <p>3.1 Duties [6.2] : The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works</p> <p>3.2 Contract instructions [6.2; 17.1] :</p> <p>3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>3.2.3 The site [13.0]</p> <p>3.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>3.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>3.2.7 Removal or re-execution of work</p> <p>3.2.8 Removal or substitution of any materials and goods</p> <p>3.2.9 Protection of the works</p> <p>3.2.10 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>3.2.11 Rectification of defects [21.2]</p>				

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	3.2.12A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion				
	3.2.13Expenditure of budgetary allowances, prime cost amounts and provisional sums				
	8. Health and safety consultant				
	8.1 Duties [6.2] : The health and safety consultant is responsible for all aspects of health and safety of the works. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works. He shall:				
	8.1.1Act as the employer's agent in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act,1993 as amended				
	8.1.2Prepare and update the health and safety specification for the works				
	8.1.3Agree with the contractor the health and safety plan for the works				
	8.1.4Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations				
	8.1.5Stop the execution of the works where the agreed specification or plan is not adhered to				
	F:..... V:..... T:.....	Item	1		
7	Clause 7.0 - Design responsibility F:..... V:..... T:.....	Item	1		
	Insurances and securities (A8-A11)				
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	1		
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item	1		
10	Clause 10.0 - Insurances F:..... V:..... T:.....	Item	1		
11	Clause 11.0 - Securities Guarantee for payment The employer shall provide to the contractor a guarantee for payment in the amount ofRand (R.....) [11.5.1]. The contractor shall consequently waive his lien or right of continuing possession of the works [11.10] Extension of waiver of lien The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10] F:..... V:..... T:.....	Item	1		
12	Execution (A12 - A17) Clause 12.0 - Obligations of the parties Office accommodation 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] Notice board The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18] Statutory and other notices The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard				

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	It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto F:..... V:..... T:.....	Item	1		
13	Clause 13.0 - Setting out F:..... V:..... T:.....	Item	1		
14	Clause 14.0 - Nominated subcontractors F:..... V:..... T:.....	Item	1		
15	Clause 15.0 - Selected subcontractors F:..... V:..... T:.....	Item	1		
16	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2.Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1] F:..... V:..... T:.....	Item	1		
17	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor F:..... V:..... T:.....	Item	1		
18	Completion (A18 - A24) Clause 18.0 - Interim completion Clause 19.0 - Practical completion F:..... V:.....	N/A			
19	T:.....	Item	1		
20	Clause 20.0 - Completion in sections F:..... V:..... T:.....	Item	1		
21	Clause 21.0 - Defects liability period and final completion F:..... V:..... T:.....	Item	1		
22	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....	Item	1		
23	Clause 23.0 - Revision of the date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2] F:..... V:..... T:.....	Item	1		
24	Clause 24.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item	1		
25	Payment (A25 - A27) Clause 25.0 - Payment				
26	Prices submitted Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement 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 certificate of final completion, it shall be in writing F:..... V:..... T:.....	Item	1		
	Clause 26.0 - Adjustment of the contract value and final account Fluctuations in costs All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5] Cost of claims All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs				

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	Claims from subcontractors The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6] F:..... V:..... T:.....	Item	1		
27	Clause 27.0 - Recovery of expense and/or loss F:..... V:..... T:.....	Item	1		
28	Suspension and termination (A28 - A29) Clause 28.0 - Suspension by the contractor F:..... V:..... T:.....	Item	1		
29	Clause 29.0 - Termination F:..... V:..... T:.....	Item	1		
30	Dispute resolution (A30) Clause 30.0 - Dispute resolution F:..... V:..... T:.....	Item	1		
31	Agreement				
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item	1		
32	Contract data Tenderer's selections Before submission of his tender the contractor is to complete the tenderer's selections in the contract data User note All information for the above requires consultation with the contractor. The principal agent should not pre-select any of the alternatives available to the contractor F:..... V:..... T:.....	Item	1		
	SECTION B: GENERAL PRELIMINARIES Definitions and interpretation (B1) Clause 1.1 - Definitions F:..... V:..... T:.....	Item	1		
33	Clause 1.2 - Interpretation F:..... V:..... T:.....	Item	1		
34	Documents (B2) Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item	1		
35	Clause 2.2 - Provisional bills of quantities				
36	Multiple procurementThese bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums F:..... V:..... T:.....	Item	1		
37	Clause 2.3 - Availability of construction information F:..... V:..... T:.....	Item	1		
38	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:.....	Item	1		
	Previous work and adjoining properties (B3) Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	1		
39	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	1		
40	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item	1		
41	The site (B4) Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item	1		
42	Clause 4.2 - Enclosure of the works F:..... V:..... T:.....	Item	1		
43	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item	1		
44	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item	1		
45	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....	Item	1		
46	Clause 4.6 - Services - known F:..... V:..... T:.....	Item	1		
47		Item	1		

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Management of contract (B5)				
48	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item	1		
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item	1		
50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item	1		
	Samples, shop drawings and manufacturer's instructions (B6)				
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item	1		
52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item	1		
53	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item	1		
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	1		
	Deposits and fees (B7)				
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item	1		
	Temporary services (B8)				
56	Clause 8.1 - Water F:..... V:..... T:.....	Item	1		
57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item	1		
58	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item	1		
59	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item	1		
	Prime cost amounts (B9)				
60	Clause 9.1 - Responsibility for prime cost amounts				
	Attendance on subcontractors (B10)				
61	Clause 10.1 - General attendance F:..... V:..... T:.....	N/A			
62	Clause 10.2 - Special attendance F:..... V:..... T:.....	N/A			
	General (B11)				
63	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item	1		
64	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	Item	1		
65	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item	1		
66	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item	1		
67	Clause 11.5 - Disturbance Disturbance All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever F:..... V:..... T:.....	Item	1		
68	Clause 11.6 - Environmental disturbance Controlling all forms of pollution The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works Environmental management planThe employer has prepared an environmental management plan (refer to Annexures for a copy of the relevant plan). The contractor shall price opposite this item for compliance with all the requirements of such EMP F:..... V:.....T:.....	Item	1		
69	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	1		
70	Clause 11.8 - Vermin F:..... V:..... T:.....	Item	1		
71	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item	1		
72	Clause 11.10 - Tenant installations F:..... V:..... T:.....	Item	1		
73	Clause 11.11 - Advertising F:..... V:..... T:.....	Item	1		
	SECTION C: SPECIFIC PRELIMINARIES				
	Warranties for materials and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract				
74	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor F:..... V:..... T:.....	Item	1		
75	Overtime Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer F:..... V:.....T:.....	Item	1		
76	Cooperation of the contractor for cost management It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget F:..... V:.....T:.....	Item	1		
77	Overloading The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense F:..... V:.....T:.....	Item	1		
78	Propping of floors below The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor F:..... V:.....T:.....	Item	1		

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79	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:.....T:.....	Item	1		
80	Health and safety Health and safety Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Annexures for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]				
81	The contractor shall: 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Cooperate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification F:..... V:..... T:..... Broad based black economic empowerment (BBBEE) Tenders submitted will be evaluated taking into account their empowerment rating The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating F:..... V:.....T:.....	Item	1		
82	Advertising rights The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement F:..... V:.....T:.....	Item	1		
83	Confidentiality The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer F:..... V:.....T:.....	Item	1		
84	Media releases All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media F:..... V:.....T:.....	Item	1		
	SUMMARY OF CATEGORIES Category : Fixed R..... Category : Value R..... Category : Time R.....				
	Carried to Final Summary				

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	<p>SECTION NO. 2: GUARD HOUSES BILL NO. 1 EARTHWORKS (PROVISIONAL) SUPPLEMENTARY PREAMBLES Nature of ground Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes Nature of ground A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured 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 SITE CLEARANCE ETC Site clearance</p>				
1	Stripping average 150mm thick layer of top soil and stockpiling on site. EXCAVATION, FILLING, ETC	m2	16		
2	Excavation in earth not exceeding 2m deep: Reduced levels under floors.	m3	2		
3	Trenches.	m3	6		
4	Raft foundations. Extra over trench and hole excavations in earth for excavation in:	m3	3		
5	Soft rock.	m3	1		
6	Hard rock. Extra over all excavations for carting away:	m3	1		
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	12		
8	Risk of collapse of excavations: Sides of trench and hole excavations not exceeding 1,5m deep.	m2	21		
9	Keeping excavations free of water: Keeping excavations free of all water other than subterranean water. EARTH FILLING, ETC.	Item	1		
10	Earth filling of G7 quality material obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density: Under solid floors in 150mm layers.	m3	6		
11	Earth filling of G5 quality material supplied by the contractor compacted to 95% Mod AASHTO density: Under floors, steps, pavings, etc.	m3	5		
12	Sand blinding: 50mm Thick layer of approved clean sand filling under surface beds. Compaction of surfaces	m2	5		
13	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 93% Mod AASHTO density. Prescribed density tests on filling:	m2	5		
14	Allow for compaction tests by an approved laboratory to determine density of filling material. SOIL POISONING Soil insecticide	No	4		
15	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming.	m2	20		
16	To bottoms and sides of trenches, etc.	m2	21		

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
AND SURROUNDING WALLS AT THE OLD FORT, CONSTITUTION HILL - BOQ**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>SECTION NO. 2: GUARD HOUSES BILL NO. 2 CONCRETE, FORMWORK AND REINFORCEMENT SUPPLEMENTARY PREAMBLES Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately) Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated "Foamcement " lightweight concrete "Foamcement" lightweight concrete is to have a density of 600kg/m3 for the top 50mm and 400kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm "Celbeton" lightweight concrete "Celbeton" lightweight concrete is to have a density of 1000kg/m3 for the top 20mm and 480kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm Formwork Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" FOUNDATIONS (PROVISIONAL) UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES 15MPa/20mm concrete:</p>				
1	Aprons to falls.	m3	4		
	30MPa/20mm concrete:				
2	Raft foundations.	m3	1		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES 30MPa/20mm concrete:				
3	Footings.	m3	2		

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
AND SURROUNDING WALLS AT THE OLD FORT, CONSTITUTION HILL - BOQ**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4	REINFORCED CONCRETE 25MPa/20mm concrete: Surface beds on waterproofing.	m3	1		
5	TEST CUBES Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	3		
6	CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float: Surface beds, slabs, etc.	m2	32		
7	ROUGH FORMWORK (DEGREE OF ACCURACY III) Rough Formwork to Sides Edges, risers, ends and reveals not exceeding 300mm high or wide	m	38		
8	REINFORCEMENT (PROVISIONAL) High tensile steel reinforcement to structural concrete work 12mm Diameter bars.	t	0,20		
9	Fabric reinforcement REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	5		
Section Summary					
1	EARTHWORKS				
2	CONCRETE, FORMWORK AND REINFORCEMENT				
Carried to Final Summary					

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
AND SURROUNDING WALLS AT THE OLD FORT, CONSTITUTION HILL - BOQ**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>SECTION NO. 3: RETAINING WALLS BILL NO. 1 EARTHWORKS (PROVISIONAL) SUPPLEMENTARY PREAMBLES Nature of ground Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes Nature of ground A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured 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 SITE CLEARANCE ETC Site clearance</p>				
1	Stripping average 150mm thick layer of top soil and stockpiling on site.	m2	296		
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. BULK EXCAVATION, FILLING, ETC	m2	296		
3	Excavation in earth over sloping site not exceeding 2m deep Open face excavation.	m3	1654		
4	For retaining walls foundations. Excavation in earth over sloping site exceeding 2m and not exceeding 4m deep	m3	827		
5	For retaining walls foundations. Extra over bulk excavation in earth for excavation in	m3	827		
6	Soft rock.	m3	331		
7	Hard rock.	m3	165		
8	Extra over bulk excavation in earth for breaking up and removing Unreinforced concrete	m3	3		
9	Reinforced concrete. EXCAVATION, FILLING, ETC	m3	32		
10	Extra over all excavations for carting away: Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	744		
11	Risk of collapse of excavations: Sides of trench and hole excavations not exceeding 1,5m deep.	m2	56		
12	Sides of trench and hole excavations exceeding 1,5m deep. Keeping excavations free of water:	m2	241		
13	Keeping excavations free of all water other than subterranean water. EARTH FILLING, ETC.	Item	1		
14	Earth filling of G7 quality material obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density: Backfilling behind retaining walls.	m3	2392		
15	Earth filling of G5 quality material supplied by the contractor compacted to 95% Mod AASHTO density: Backfilling behind retaining walls.	m3	519		
16	Filling of natural G4 gravel material supplied by the contractor, compacted to 90% Mod AASHTO density Backfilling behind retaining walls.	m3	356		
17	Selected topsoil filling obtained from the excavations and/or prescribed stock piles on site, lightly consolidated In landscape mounds, berms, etc	m3	18		
18	Selected topsoil filling supplied by the contractor, lightly consolidated In landscape mounds, berms, etc	m3	48		
19	Prescribed density tests on filling: Allow for compaction tests by an approved laboratory to determine density of filling material.	No	3		

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>SECTION NO. 3: RETAINING WALLS</p> <p>BILL NO. 2</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Cost of tests</p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p> <p>"Foamcement" lightweight concrete</p> <p>"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p> <p>"Celbeton" lightweight concrete</p> <p>"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm</p> <p>Formwork</p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons.</p> <p>Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p>FOUNDATIONS (PROVISIONAL)</p> <p>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</p> <p>25MPa/20mm concrete:</p>				
1	Footings to walls (Provisional).	m3	32		
2	<p>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</p> <p>25MPa/20mm concrete:</p> <p>Bases, etc (Provisional).</p>	m3	111		
3	<p>REINFORCED CONCRETE</p> <p>25MPa/20mm concrete:</p> <p>Walls.</p>	m3	159		
4	<p>TEST CUBES</p> <p>Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).</p>	No	32		
5	<p>CONCRETE SUNDRIES</p> <p>Sandblasting of concrete surfaces to expose aggregate</p> <p>Sides of existing columns.</p>	m2	23		
6	<p>Cement work of 1:3 liquid cement and sand mixture applied with a brush</p> <p>Sides of existing columns.</p>	m2	23		

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
AND SURROUNDING WALLS AT THE OLD FORT, CONSTITUTION HILL - BOQ**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough Formwork to Sides				
7	Walls not exceeding 3.5m bearing level, sloping.	m2	278		
8	Walls exceeding 3.5m but not exceeding 5m bearing level, sloping.	m2	119		
9	Walls exceeding 5m but not exceeding 6.5m bearing level, sloping.	m2	119		
10	Walls exceeding 6.5m but not exceeding 8m bearing level, sloping.	m2	119		
11	Walls exceeding 8m but not exceeding 9.5m bearing level, sloping.	m2	43		
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen filler board between vertical concrete surfaces				
12	10mm Joints exceeding 300mm high.	m2	33		
	SUNDRIES				
	Openings, etc				
	Form or leave holes for 110mm pipes through concrete walls approximately 1.8m thick.				
13	Weep holes, etc.	No	41		
	Class 34 uPVC piping:				
14	110mm Diameter pipes.	m	160		
	REINFORCEMENT (PROVISIONAL)				
	High tensile steel reinforcement to structural concrete work				
15	32mm Diameter bars.	t	27,07		
16	25mm Diameter bars.	t	3,32		
17	16mm Diameter bars.	t	12,32		
	Mild steel reinforcement to structural concrete work				
18	10mm Diameter bars.	t	0,33		
	ANCHORING, ETC				
	Anchoring to retaining walls				
19	Allow the amount of R300,000.00 for anchors to engineer's specification executed complete.	Item	1		
	Section Summary				
1	EARTHWORKS				
2	CONCRETE, FORMWORK AND REINFORCEMENT				
	Carried to Final Summary				

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION NO. 4: GENERAL				
	BILL NO. 1				
	PAVED RAMPART PATHWAY				
	REMOVAL OF EXISTING WORK				
	Breaking up and removing of concrete paving, etc.				
1	Carefully remove precast concrete pavers and set aside for re-use.	m2	663		
2	Carefully remove precast concrete kerbs and set aside for re-use including necessary excavation and concrete bases.	m	742		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep:				
3	Reduced levels under floors.	m3	199		
	Extra over trench and hole excavations in earth for excavation in:				
4	Soft rock.	m3	20		
5	Hard rock.	m3	10		
	Extra over all excavations for carting away:				
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	66		
	EARTH FILLING, ETC.				
	Earth filling of G5 quality material supplied by the contractor compacted to 95% Mod AASHTO density:				
7	Under floors, steps, pavings, etc.	m3	66		
	Compaction of surfaces				
	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 93% Mod AASHTO density.				
8	Prescribed density tests on filling:	m2	663		
	Allow for compaction tests by an approved laboratory to determine density of filling material.				
9		No	10		
	PAVERS				
	Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling				
10	Take from store and re-lay concrete pavers.	m2	663		
	Supply and fix				
11	Concrete pavers size 195 x 155 x 50mm thick.	m2	165		
	KERBING				
	70 x 300mm Half-battered concrete kerb jointed and pointed in 4:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:				
12	On straight, kerbing obtained from store.	m	712		
13	On radius not exceeding 4m, kerbing obtained from store.	m	30		
	Supply and fix				
14	On straight (Provisional).	m	8		Rate only.
15	On radius not exceeding 4m, (Provisional).	m	4		Rate only.

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SECTION NO. 4: GENERAL					
BILL NO. 2					
LANDSCAPING					
SITE CLEARANCE ETC					
Site clearance					
1	Stripping average 150mm thick layer of top soil and stockpiling on site.	m2	22		
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	22		
3	Selected topsoil filling obtained from the excavations and/or prescribed stock piles on site, lightly consolidated In landscape mounds, berms, etc	m3	2		
4	Selected topsoil filling supplied by the contractor, lightly consolidated In landscape mounds, berms, etc	m3	2		
5	Prescribed density tests on filling: Allow for compaction tests by an approved laboratory to determine density of filling material.	No	2		
Section Summary					
1	PAVED RAMPART PATHWAY				
2	LANDSCAPING				
Carried to Final Summary					

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
AND SURROUNDING WALLS AT THE OLD FORT, CONSTITUTION HILL - BOQ**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>SECTION NO. 5: PROVISIONAL SUMS BILL NO. 1 PROVISIONAL SUMS NOMINATED/SELECTED SUB-CONTRACTS</p> <p>The following Provisional Amounts are for work to be done by firms of specialists and will be regarded as Nominated/Selected Sub-contractors to the Contractor. The Contractor must obtain quotations from approved firms and submit them to the Agent/Representative for his approval.</p> <p>CASH DISCOUNT No cash discount. All provisional sums are "NET".</p> <p>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:</p> <ol style="list-style-type: none"> 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; 9) hoisting of the sub-contractor's material in loads not exceeding 500 kg; 10) making good in all trades and final cleaning down on completion. <p>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 contract 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 metres, etc.</p> <p>COMMUNITY LIAISON OFFICER</p> <p>Provide the Amount of R 45,000.00 (Forty-Five Thousand Rand) for Community Liaison Officer to be expended as the Agent/Representative may direct or deduct in whole or in part, if not required</p>				
1	Allow for profit	Item	1		
2	Allow for attendance	%IT			
3	Allow for attendance	%IT			
	<p>GUARD HOUSES, RETAINING WALL, WATERPROOFING, WATER TOWER AND VENT PIPES</p> <p>Provide the Amount of R2,500,000.00 (two million, five hundred thousand rands) for the demolitions, alterations, earthworks, masonry, waterproofing, painting of the Guard houses, retaining wall, water tower and vent pipes</p>				
1	Allow for profit	Item	1		
2	Allow for attendance	%IT			
3	Allow for attendance	%IT			
	Carried to Final Summary				

**REPAIR, REMEDIAL AND RESTORATION WORK TO THE EXISTING RAMPART BUILDINGS
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
FINAL SUMMARY					
1	PRELIMINARIES				
2	GUARD HOUSES				
3	RETAINING WALLS				
4	GENERAL				
5	PROVISIONAL SUMS				
	Subtotal				_____
	Contingencies @ 10%			10%	_____
	Subtotal				_____
	ADD: Value added Tax at 15%			15%	_____
	TOTAL CARRIED TO FORM OF TENDER				_____