PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
146		SECTION NO.1: PRELIMINARIES AND GENERAL				
146		BILL NO: 1				
146		BUILDING AGREEMENT AND PRELIMINARIES				
-		The JBCC Principal Building Agreement (Edition 6.2 - May 2018)				
		prepared by the Joint Building Contracts Committee shall be the				
146		applicable building agreement, amended as hereinafter described				
1.0		The JBCC Principal Building Agreement contract data form an integral				
146		part of this agreement				
1.0		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				
146		described				
		The contractor is deemed to have referred to the abovementioned				
146		documents for the full intent and meaning of each clause				
-		The clauses in the abovementioned documents are hereinafter				
146		referred to by clause number and heading only				
		Where any item is not relevant to this agreement such item is marked				
146		N/A signifying "not applicable"				
		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				
146		contrary contained in the abovementioned documents				
147		PREAMBLES FOR TRADES				
		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				
147		Preambles will be entertained				
		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				
147		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				
147		Preambles and in any supplementary preambles and/or specifications				
147		STRUCTURE OF THIS PRELIMINARIES BILL				
		Section A : A recital of the headings of the individual clauses in the				
147		aforementioned JBCC Principal Building Agreement				
		Section B : A recital of the headings of the individual clauses in the				
147		aforementioned JBCC General Preliminaries				
		Section C : Any special clauses to meet the particular circumstances of				
147		the project				
147		PRICING OF PRELIMINARIES				
		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				
147		related (T)				
147						

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
147		SECTION A: PRINCIPAL BUILDING AGREEMENT	2			
147		Interpretation (A1-A7)				
148	1	Clause 1.0 - Definitions and interpretation				
148	-	Pricing of bills of quantities				
140						
		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				
148		summary page of these bills of quantities				
140		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				
148		entertained				
140						
		Prices for all construction equipment, temporary works, services and				
		other items shall include for the supply, maintenance, operating cost				
148		and subsequent removal and making good as necessary				
148		Abbreviated descriptions				
		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				
148		best practice				
148		Legal status of contractor				
		If the contractor constitutes a joint venture, consortium or other				
149		unincorporated grouping of two or more persons then:				
		1. These persons are deemed to be jointly and severally liable to the				
149		employer for the performance of this agreement				
		2. These persons shall notify the employer of their leader who has				
149		assigned authority to bind the contractor and each of these persons				
		3. The contractor shall not alter its composition or legal status without				
149		the prior written consent of the employer				
149		F: T:	Item	1		
149	2	Clause 2.0 - Law, regulations and notices				
		Clause 3.0 - Offer and acceptance F:				
149	3	V: T:	Item	1		
		Clause 4.0 - Cession and assignment F:				
149	4	V:	Item	1		
149	5	Clause 5.0 - Documents				
149		Value Added Tax				
		Provision is made in the summary page of these bills of quantities for				
149		the inclusion of Value Added Tax (VAT)				
		The principal agent shall decide which portion of the priced document				
140		may be used as a specification of materials and goods or methods, if				
149		any				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		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				
150		electronically [5.6]				
150		F: T:	Item	1		
150	6	Clause 6.0 - Employer's agents				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
150		Delegated authority				
100		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				
150		from issuing such contract instructions:				
150		1. Architect				
150		1.1 Duties [6.2] : The architect is responsible for the architectural				
150		design, functional design and quality inspection of the works				
150		1.2 Contract instructions [6.2; 17.1] :				
150		1.2.1 Rectification of discrepancies, errors in description or quantity				
		or omission of items in the agreement other than in the JBCC Principal				
150		Building Agreement				
150		1.2.2 Alteration to design, standards or quantity of the works				
		provided that such contract instructions shall not substantially change				
150		the scope of the works				
150		1.2.3 The site [13.0]				
150		1.2.4 Compliance with the law, regulations and bylaws [2.1]				
150		1.2.5 Provision and testing of samples of materials and goods and/or				
150		of finishes and assemblies of elements of the works				
150		1.2.6 Opening up of work for inspection, removal or re-execution				
151		[23.2.4; 26.4.2]				
151		1.2.7 Removal or re-execution of work				
151		1.2.8 Removal or substitution of any materials and goods				
151		1.2.9 Protection of the works				
		1.2.10 Making good physical loss and repairing damage to the works				
151		[23.2.2]				
151		1.2.11 Rectification of defects [21.2]				
		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				
151		completion				
		1.2.13 Expenditure of budgetary allowances, prime cost amounts and				
151		provisional sums				
151		1.2.14 Appointment of a subcontractor [14.0; 15.0]				
151		1.2.15 Work by direct contractors [16.0]				
		1.2.16 On suspension or termination, protection of the works,				
		removal of construction equipment and surplus materials and				
151		goods [29.0]				
151		2. Quantity surveyor				
		2.1 Duties [6.2] : The quantity surveyor is responsible for all				
		measurements, valuations, financial assessments and all other				
151		quantity surveying and cost control functions of the works				
151		2.2 Contract instructions [6.2; 17.1] :				
152		2.2.1 No contract instructions delegated to the quantity surveyor				
152		3. Civil and structural engineer				
152		User note				
		Insert the following but remove where the consultant is not relevant to				
		this agreement. Edit both the duties and the contract instructions of				
152		the consultant in keeping with the wishes of the principal agent				
		Note that the contract instructions hereinafter are selected from those				
152		listed in clause 17.1 of the JBCC PBA				
		3.1 Duties [6.2] : The civil and structural engineer is responsible for all				
		aspects of civil and structural engineering design and quality inspection				
152		of the works				
152	I	3.2 Contract instructions [6.2; 17.1] :				I

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		3.2.1 Rectification of discrepancies, errors in description or quantity or				
		omission of items in the agreement other than in the JBCC Principal				
152		Building Agreement				
		3.2.2Alteration to design, standards or quantity of the works provided				
		that such contract instructions shall not substantially change the scope				
152		of the works				
152		3.2.3The site [13.0]				
152		3.2.4Compliance with the law, regulations and bylaws [2.1]				

PAGE NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		3.2.5Provision and testing of samples of materials and goods and/or	CINIT		NATE	
152		of finishes and assemblies of elements of the works				
		3.2.6Opening up of work for inspection, removal or re-execution				
152		[23.2.4; 26.4.2]				
152		3.2.7Removal or re-execution of work				
153		3.2.8Removal or substitution of any materials and goods				
153		3.2.9Protection of the works				
		3.2.10Making good physical loss and repairing damage to the works				
153		[23.2.2]				
153		3.2.11Rectification of defects [21.2]				
		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				
153		defective work to be rectified to achieve final completion				
		3.2.13Expenditure of budgetary allowances, prime cost amounts and				
153		provisional sums				
153		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				
150		following specific functions and duties in respect of the health and				
153		safety aspects of the works. He shall:				
		8.1.1Act as the employer's agent in terms of the Construction				
152		Regulations issued in terms of the Occupational Health and Safety				
153		Act, 1993 as amended				
153		8.1.2Prepare and update the health and safety specification for the works				
155		8.1.3Agree with the contractor the health and safety plan for the				
153		works				
155		8.1.4Carry out regular audits to ensure adherence to the safety plan				
153		and compliance with the act and regulations				
		8.1.5Stop the execution of the works where the agreed specification				
154		or plan is not adhered to				
154		F:	Item	1		
		Clause 7.0 - Design responsibility F:				
154	7	V:	Item	1		
154		Insurances and securities (A8-A11)				
		Clause 8.0 - Works risk F: V: V:				
154	8	Τ	Item	1		
		Clause 9.0 - Indemnities F: V:				
154	9	Τ:	Item	1		
		Clause 10.0 - Insurances F: V:				
154	10	Τ:	Item	1		
154	11	Clause 11.0 - Securities				
154		Guarantee for payment				
		The employer shall provide to the contractor a guarantee for payment				
		in the amount of				
154		his lien or right of continuing possession of the works [11.10]				
154		Extension of waiver of lien				
1.24		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				
154		all liens and other encumbrances at all times [11.10]				
155		F:	Item	1		
155		Execution (A12 - A17)		1		
155	12	Clause 12.0 - Obligations of the parties				
		· - ·				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Office accommodation. The contractor shall are vide maintain and				
		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.				
155		Such offices shall be kept clean and fit for use at all times [12.2.18]				
100		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				
155		be erected [12.2.18]				
155		Statutory and other notices				
100						
		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				
155		contractor. The contractor shall pay all deposits or fees in this regard				
		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				
155		thereto				
155		F: T:	Item	1		
150	12	Clause 13.0 - Setting out F:V:V:	14	1		
156 156	13 14	T: Clause 14.0 - Nominated subcontractors	Item	1		
156	14	F: T:	Item	1		
156	15	Clause 15.0 - Selected subcontractors	nem	1		
156	15	F:	Item	1		
		Clause 16.0 - Direct contractors Attendance on direct contractors In		_		
156	16	respect of direct contractors the contractor shall:				
		1. Designate an area for the direct contractor to actablish a temporary				
156		 Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 				
156		2.Allow the use of personnel welfare facilities, where provided				
150		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				
156		installation				
		4. Permit the direct contractor to use erected scaffolding, hoisting				
		facilities, etc provided by the contractor, in common with others				
156		having the like right, while it remains erected on the site [16.1]				
156		F: V: T:	Item	1		
		Clause 17.0 - Contract instructions Site instructions Instructions issued				
		on site are to be recorded in a site instruction book which is to be				
157	17	supplied and maintained on site by the contractor				
157		F: T:	Item	1		
157	10	Completion (A18 - A24)	N1 / A			
157	18	Clause 18.0 - Interim completion	N/A			
157	19	Clause 19.0 - Practical completion F: V:	Item	1		
157	20	Clause 20.0 - Completion in sections	item	1		
157	20	F: T:	Item	1		
157	21	Clause 21.0 - Defects liability period and final completion		1		
157		F:	Item	1		
		Clause 22.0 - Latent defects liability period F:				
157	22	V: T:	Item	1		
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PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		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				
157	23	[17.1.8; 23.1 & 2]				
158		F: T:	Item	1		
		Clause 24.0 - Penalty for late or non-completion F:				
158	24	V: T:	Item	1		
158		Payment (A25 - A27)				
158	25	Clause 25.0 - Payment				
		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				
158		writing				
158		F:	Item	1		
158	26	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				
158		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				
158		agreement [30.6 & 7] from making a determination on costs				
		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				
159		in order to assist the principal agent in adjudicating the claim [26.6]				
159		F: V: V:	Item	1		
139		Clause 27.0 - Recovery of expense and/or loss F:	item	1 ¹		
159	27	V:	Itom	1		
159	27	Suspension and termination (A28 - A29)	Item	1 ¹		
159	28	Clause 28.0 - Suspension by the contractor				
159	20	F: V:	Itom	1		
	29	Clause 29.0 - Termination	Item	1 ¹		
159 159	29	F: T:	Item	1		
159		Dispute resolution (A30)	item	1 ¹		
159		Clause 30.0 - Dispute resolution F:				
150	30	V:	Itom	1		
159 150	30 31		Item	1		
159	51	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:				
150			Itom	1		
159 150	27	T: Contract data	Item	1		
159 150	32	Tenderer's selections				
159						
100		Before submission of his tender the contractor is to complete the				
160		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				
160		alternatives available to the contractor				
160		F: T:	Item	1		
160		SECTION B: GENERAL PRELIMINARIES	l	I		1

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
160		Definitions and interpretation (B1)				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Clause 1.1 - Definitions F: V:				
160	33	Т:	Item	1		
		Clause 1.2 - Interpretation F:				
160	34	Τ:	Item	1		
160		Documents (B2)				
		Clause 2.1 - Checking of documents F:				
160	35	V:	Item	1		
160	36	Clause 2.2 - Provisional bills of quantities				
		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: V:				
160		Т:	Item	1		
161	37	Clause 2.3 - Availability of construction information				
161		F: V: V:	Item	1		
		Clause 2.4 - Ordering of materials and goods F:				
161	38	V: T:	Item	1		
161		Previous work and adjoining properties (B3)				
		Clause 3.1 - Previous work - dimensional accuracy F:				
161	39	V: T:	Item	1		
		Clause 3.2 - Previous work - defects F:				
161	40	V: T:	Item	1		
		Clause 3.3 - Inspection of adjoining properties F:				
161	41	V: T:	Item	1		
161		The site (B4)				
		Clause 4.1 - Handover of site in stages F:				
161	42	V: T:	Item	1		
161	43	Clause 4.2 - Enclosure of the works	Item	1		
161		F: V: V:				
		Clause 4.3 - Geotechnical and other investigations F:				
161	44	V: T:	Item	1		
		Clause 4.4 - Encroachments F: V: V:				
162	45	Т:	Item	1		
		Clause 4.5 - Existing premises occupied F:				
162	46	V: T:	Item	1		
		Clause 4.6 - Services - known F: V: V:				
162	47	Т:	Item	1		
162		Management of contract (B5)				
		Clause 5.1 - Management of the works F:				
162	48	V: T:	Item	1		R -

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Clause 5.2 - Progress meetings F:				
162	49	V: T:	Item	1		
		Clause 5.3 - Technical meetings F:				
162	50	V: T:	Item	1		
162		Samples, shop drawings and manufacturer's instructions (B6)				
		Clause 6.1 - Samples of materials F:				
162	51	V:	Item	1		
		Clause 6.2 - Workmanship samples F:				
162	52	V:	Item	1		
-		Clause 6.3 - Shop drawings F:				
163	53	T:	Item	1		
		Clause 6.4 - Compliance with manufacturer's instructions				
163	54	F:	Item	1		
163		Deposits and fees (B7)				
105		Clause 7.1 - Deposits and fees F:V:				
163	55	T:	Item	1		
163	55	Temporary services (B8)		-		
105		Clause 8.1 - Water F:V:				
163	56	T:	Item	1		
105	50	Clause 8.2 - Electricity F:V:V	item			
163	57	T:	Item	1		
105	57	Clause 8.3 - Ablution and welfare facilities F:	item			
163	58	V:	Itom	1		
105	50	Clause 8.4 - Communication facilities F:	Item			
160	50	V:	Itom	1		
163 162	59		Item	¹		
163	60	Prime cost amounts (B9)				
163	60	Clause 9.1 - Responsibility for prime cost amounts				
164		Attendance on subcontractors (B10)				
464	64	Clause 10.1 - General attendance F:				
164	61	V:	N/A			
	60	Clause 10.2 - Special attendance F:				
164	62	V:	N/A			
164		General (B11)				
		Clause 11.1 - Protection of the works F:				
164	63	V:	Item	1		
		Clause 11.2 - Protection/isolation of existing works and works occupied				
		in sections F:				
164	64	T:	Item	1		
		Clause 11.3 - Security of the works F:				
164	65	V: T:	Item	1		
		Clause 11.4 - Notice before covering work F:				
164	66	V: T:	Item	1		
164	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:				
165		V:T:	Item	1		

WORK TO THE EXISTING RAMPART BUILDINGS AND SURROUNDING WALLS OLD FORT

CONS	τιτυτ	TION	HILL

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
165	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				
165		sand, dust, deposits of mud, etc				
		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				
165		works				
105		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				
4.65		compliance with all the requirements of such EMP F:				
165		V:	Item	1		
		Clause 11.7 - Works cleaning and clearing F:				
165	69	V: T:	Item	1		
		Clause 11.8 - Vermin F:				
166	70	Τ	Item	1		
		Clause 11.9 - Overhand work F: V: V:				
166	71	Τ	Item	1		
		Clause 11.10 - Tenant installations F:				
166	72	V: T:	Item	1		
		Clause 11.11 - Advertising F:				
166	73	T	Item	1		
166		SECTION C: SPECIFIC PRELIMINARIES		_		
100						
		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				
166	74	same to the principal agent on final completion of the contract				
		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				
166		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				
166		F:	Item	1		
100		· · · · · · · · · · · · · · · · · · ·	nem	1		
		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				
167	75	employer F:T:	Item	1		
		Cooperation of the contractor for cost management It is specifically				
			1			
		agreed that the contractor accepts the obligation of assisting the				
		agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The				
		principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost				
		principal agent in implementing proper cost management. The				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
167	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:	Item	1		
		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				
168	78	the contractor F: V:	Item	1		
168 168	79 80	V:T:	Item	1		
168	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]				
169		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				

AGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
169		F: V: T:	Item	1		
		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				
169	81	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				
169		F:	Item	1		
		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:				
170	82	V:	Item	1		
1/0	02			-		
		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				
170	83	employer F:V:	Item	1		
1.0				-		
		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				
170	84	F:	Item	1		
171		SUMMARY OF CATEGORIES		-		
		Category : Fixed R Category : Value				
		R Category : Time				
171		R				
		Carried to Final Summary				R -

PAGE NO	ITEM NO DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
174	SECTION NO. 2: GUARD HOUSES				
174	BILL NO. 1				
174					
174	Generally				
	It is strongly recommended that Tenderers undertake a detailed				
	inspection of the existing building in order to acquaint themselves with				
174	the nature and singular requirements of the work falling within the				
174	scope of this contract.				
	The Contractor will be held liable for any damage, injury or loss that				
	may result from inadequate precautions being taken in this regard. At				
	all times and in all respects, the existing services and function of the				
174	existing services of the existing works are to be fully maintained and				
174	kept operational				
	The Contractor will be held solely responsible for injury to persons or				
	damage to property caused by his empolyees throughout the duration				
	of the Contract, and will be required to make good, at his own				
174	expense, any damage for which he may be held responsible				
1/4	Old material to be carted away Old materials from the alterations,				
	except where described to be re-used or handed over, as well as all				
	rubbish, etc., must be regularly carted from the site and not be				
174	allowed to accumulate on or around the site				
175	User note				
1.0					
	Insert preambles/specifications as may be required or in order to				
	supplement any applicable preambles, specifications or bills of				
	quantities descriptions Take note that these Model Bills of Quantities				
	utilise abbreviated descriptions The Model Preambles for Trades 2008				
	published by the Association of South African Quantity Surveyors is				
	designed to support and extend the abbreviated bills of quantities				
	descriptions by inter alia referring to SANS construction standards.				
	Where such model preambles are not applicable (eg where BS or Euro				
	construction standards are applicable or the design consultants				
	provide other preambles/specifications for insertion), users are to				
	ensure that the abbreviated descriptions when read in conjunction				
	with the applicable measuring system, represents the full description				
	by extending the abbreviated bills of quantities descriptions and/or by				
	inserting appropriate preambles or specifications Consider inserting				
	the preambles hereunder when using the abovementioned Model				
175	Preambles for Trades 2008				
175	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				
175	of the work or of inferior or damaged materials will be entertained				
175	Explosives				
	No explosives whatsoever may be used for alteration purposes unless				
175	otherwise stated				
176	General				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
		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					
176		progress of the works, all to the satisfaction of the principal agent					
		Doors, fanlights, windows, fittings, frames, linings, etc which are to					
		remain the property of the employer shall be carefully taken out,					
170		temporarily stored, transported over a distance of approximately 1km					
176		to store and handed over to the employer					
		Doors, fanlights, windows, fittings, frames, linings, etc 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, etc, 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					
176		or re-varnishing is given separately					
		Prices for taking out of doors, windows, etc shall include for removal of					
176		all beads, architraves, ironmongery, etc					
		Prices for taking out and removing doors and frames shall include for					
176		removing door stops, cabin hooks, etc					
		With regard to building up of openings in existing walls, cement					
470		screeds and pavings, granolithic, tops of walls, etc, shall be levelled					
176		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					
176		necessary					
1/0		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					
176		new items (doors, windows, fittings, etc)					
177		REMOVAL OF EXISTING WORK					
177		Breaking up and removing unreinforced concrete					
177	1	Footings, etc.	m3	4		R -	
177	2	Precast concrete pavers and set aside for re-use.	m2	16		R -	
		Breaking up and removing reinforced concrete, including cutting off					
177		and removing reinforcement					
177	3	150mm Thick surface beds.	m2	27		R -	
177	4	Foundation beams, raft foundations, etc.	m3	6		R -	
		Carefully break down existing brick walls and set aside bricks on site for					
177	_	re-use.					
177	5	One brick wall in substructure.	m2	2		R -	
177	6	One brick wall in superstructure.	m2	49 2		R -	
177	7	Mass brick steps	m3	2		R -	
177		Carefully take out and remove doors, windows, etc from brickwork to be demolished					
177						I	I

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	A	MOUNT
		Glazed steel window frames not exceeding 2.5m ² and set aside for re-					
177	8	use.	No	4		R	-
		Taking out and removing ceilings, roofing, panelling, etc, cart away					
177		rubble and prepare to receive new					
		Carefully remove existing roof trusses and roof coverings, all in one					
		piece, including all relevant wall plates, bracing, purlins, rafters, hips,					
		etc, approximate size 5m ² and set aside for re-use (South East Guard					
177	9	House).	Item	1		R	-
		Carefully remove existing roof trusses and roof coverings, all in one					
		piece, including all relevant wall plates, bracing, purlins, rafters, hips,					
		etc, approximate size 8m ² and set aside for re-use (North East Guard					
177	10	House).	Item	1		R	-
178		Taking out and removing sundry metalwork from brickwork					
178	11	Glass from steel windows including cleaning out rebates	m2	5		R	-
178	12	Putty to steel window frames and reputty	m	23		R	-
		Hacking up/off and removing concrete surface bed, tarmac, screeds,					
		plaster, etc and preparing surfaces for new concrete surface bed,					
178		tarmac, screeds, plaster, etc					
178	13	Granolithic screed to floors and prepare to receive new finish	m2	12		R	-
178		Making good internal cement plaster					
178	14	Walls in patches	m2	54		R	-
178		Making good external cement plaster					
178	15	Walls in patches	m2	42		R	-
		Taking out and removing piping, sanitary fittings, etc including					
		disconnecting piping from fittings and making good floor and wall					
178		finishes					
178	16	Gutters with all accessories and set aside for re-use.	m	20		R	-
178	17	Rain water down pipes with all accessories and set aside for re-use.	m	10		R	-
178		CLEANING AND REPAIRING OF IN SITU WORK					
		Clean down existing brick walls as necessary to establish original					
178		condition					
178	18	External face brick walls with high pressure hose	m2	21		R	-
						R	-
			•				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	٦
180		SECTION NO. 2: GUARD HOUSES					
180		BILL NO. 2					
180		EARTHWORKS (PROVISIONAL)					
180		SUPPLEMENTARY PREAMBLES					
180		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					
180		that" where the ground has been investigated by means of trial holes					
180		Nature of ground					
100		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					
100							
180		separately measured					
180		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					
180		site					
180		SITE CLEARANCE ETC					
180		Site clearance					
180	1	Stripping average 150mm thick layer of top soil and stockpiling on site.	m2	16		R -	
180		EXCAVATION, FILLING, ETC					
180		Excavation in earth not exceeding 2m deep:					
180	2	Reduced levels under floors.	m3	2		R -	
181	3	Trenches.	m3	6		R -	
181	4	Raft foundations.	m3	3		R -	
181		Extra over trench and hole excavations in earth for excavation in:					
181	5	Soft rock.	m3	1		R -	
181	6	Hard rock.	m3	1		R -	
181		Extra over all excavations for carting away:					
		Surplus material from excavations and/or stock piles on site to a					
181	7	dumping site to be located by the contractor.	m3	12		R -	
181		Risk of collapse of excavations:					
181	8	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	21		R -	
181		Keeping excavations free of water:					
181	9	Keeping excavations free of all water other than subterranean water.	Itom	1		R -	
181	5	EARTH FILLING, ETC.	Item			-	
101		Earth filling of G7 quality material obtained from the excavations and /					
101		or prescribed stock piles on site compacted to 95% Mod. AASHTO					
181	10	density: Under solid floors in 150mm layers.		c c			
181	10	,	m3	6		R -	
404		Earth filling of G5 quality material supplied by the contractor					
181		compacted to 95% Mod AASHTO density:					
181	11	Under floors, steps, pavings, etc.	m3	5		R -	
181		Sand blinding:					
181	12	50mm Thick layer of approved clean sand filling under surface beds.	m2	5		R -	
182		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					
182	13	density.	m2	5		R -	
-	-		-			-	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AM	OUNT
182		Prescribed density tests on filling:					
		Allow for compaction tests by an approved laboratory to determine					
182	14	density of filling material.	No	4		R	-
182		SOIL POISONING					
182		Soil insecticide					
		Under floors, etc including forming and poisoning shallow furrows					
182	15	against foundation walls, etc and filling in furrows and ramming.	m2	20		R	-
182	16	To bottoms and sides of trenches, etc.	m2	21		R	-
						R	-
184		SECTION NO. 2: GUARD HOUSES					
184		BILL NO. 3					
184		CONCRETE, FORMWORK AND REINFORCEMENT					
-		SUPPLEMENTARY PREAMBLES					
184		Cost of tests					
184							
		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					
184		measured separately)					
ĺ		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					
184		the ash added afterwards and thoroughly incorporated					
184		"Foamcement " lightweight concrete					

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN	NT
		"Foamcement" lightweight concrete is to have a density of 600kg/m3 for the top 50mm and 400kg/m3 for the remaining thickness. The					
184		minimum thickness at outlets, channels, etc shall be 50mm					
184		"Celbeton" lightweight concrete					
		"Celbeton" lightweight concrete is to have a density of 1000kg/m3 for					
184		the top 20mm and 480kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm					
184		Formwork					
105		I OINIWOIK					
		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					
185		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					
185		support itself.					
105		Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described					
185		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					
185		the excavations, provision for which is made in "Earthworks"					
185		FOUNDATIONS (PROVISIONAL)					
185		UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
185		15MPa/20mm concrete:					
185	1	Aprons to falls.	m3	4		R	-
185 185	2	30MPa/20mm concrete: Raft foundations.	m3	1		R	
185	2	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES	1115	1			-
185		30MPa/20mm concrete:					
186	3	Footings.	m3	2		R	-
186		REINFORCED CONCRETE					
186		25MPa/20mm concrete:					
186	4	Surface beds on waterproofing.	m3	1		R	-
186		TEST CUBES					
		Making and testing set of three 150x150x150mm concrete strength					
186	5	test cubes (Provisional).	No	3		R	-
186		CONCRETE SUNDRIES					
186	6	Finishing top surfaces of concrete smooth with a wood float: Surface beds, slabs, etc.		22		R	
186 186	0	ROUGH FORMWORK (DEGREE OF ACCURACY III)	m2	32		ĸ	-
186		Rough Formwork to Sides					
186	7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	38		R	-
186		REINFORCEMENT (PROVISIONAL)					
186		High tensile steel reinforcement to structural concrete work					
186	8	12mm Diameter bars.	t	0,20		R	-
186		Fabric reinforcement					
186	9	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	5		R	-
						R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN	іт
188		SECTION NO. 2: GUARD HOUSES					
188		BILL NO. 4					
188		MASONRY					
188		SUPPLEMENTARY PREAMBLES					
188		BRICKWORK					
188		Sizes in descriptions					
		Where sizes in descriptions are given in brick units, "one brick" shall					
188		represent the length and "half brick" the width of a brick					
188		Hollow walls etc					
		Descriptions of hollow walls shall be deemed to include leaving every					
		fifth perpend of the bottom course of the external skin open as a weep					
188		hole.					
		Walls in two skins described as "bagged and sealed" shall be deemed					
		to include having the outer face of the inner skin bagged with 1:6					
		cement and sand mixture and sealed with two coats "Brixeal" bitumen					
188		emulsion waterproofing coating.					
188		User note:					
		The above preamble generally applies for works in hot and humid					
188		coastal areas					
188		Face bricks					
		Bricks shall be ordered timeously to obtain uniformity in size and					
188		colour					
189		Pointing					
		Descriptions of recessed pointing to fair face brickwork and face					
		brickwork shall be deemed to include square recessed, hollow					
189		recessed, weathered pointing, etc					
189		FOUNDATIONS (PROVISIONAL)					
		Brickwork of NFX bricks (14 MPa nominal compressive strength) in					
189		Class I mortar:					
189	1	One and half brick walls.	m2	2		R	-
189		Brickwork salvaged from demolitions in Class I mortar:					
189	2	One brick walls to match existing.	m2			Rate only.	
189	3	One and half brick walls to match existing.	m2			Rate only.	
189		SUPERSTRUCTURE					
		Brickwork of NFP bricks (14 MPa nominal compressive strength) in					
189		Class II mortar:					
189	4	One brick walls.	m2	49		R	-
		Mass brick steps size 720mm wide with 245mm risers and 220mm					
189	5	treads.	m3	1		R	-
		Mass brick steps size 720mm wide with 245mm risers and 220mm					
189	6	treads.	m3	1		Rate only.	
100	_	Mass brick steps size 813mm wide with 182mm risers and 300mm					
189	7	treads.	m3	1		R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	4	MOUNT
189		Brickwork salvaged from demolitions in Class I mortar:					
189	8	One brick walls to match existing.	m2	23		R	-
189		Brickwork reinforcement					
189	9	150mm Wide reinforcement built in horizontally.	m	285		R	-
		230mm Wide reinforcement built in horizontally in foundations					
189	10	(Provisional).	m	23		R	-
190		Galvanised wire ties etc:					
		4mm Diameter roof tie 2m girth bent double, with one end built into					
190	11	brick/blockwork and other end fixed to timber.	No	16		R	-
190		Air bricks etc:					
190	12	230 x 160mm Cement vermin proof air brick.	No	4		R	-
190		BRICKWORK SUNDRIES					
		Cement wash of 1:3 liquid cement and sand mixture applied with a					
190		brush					
190	13	On brick walls, piers, etc, internally.	m2	13		R	-
190	14	On brick walls, piers, etc, externally.	m2	16		R	-
						R	-
192		SECTION NO. 2: GUARD HOUSES					
192		BILL NO. 5					
192		WATERPROOFING					
192		SUPPLEMENTARY PREAMBLES					
192		Waterproofing					
152		Waterproofing of roofs, basements, etc shall be laid under a ten year					
		guarantee. Waterproofing to roofs shall be laid to even falls to outlets					
		etc with necessary ridges, hips and valleys. Descriptions of sheet or					
		membrane waterproofing shall be deemed to include additional labour					
192		to turn-ups and turn-downs					
192		DAMPPROOFING OF WALLS AND FLOORS					
		One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed					
192		damp proof course					
192	1	In walls.	m2	3		R	-
_		One layer of 250 micron "Consol Plastics Gunplas USB Green"		_			
		waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive					
192		Tape"					
192	2	Under surface beds.	m2	5		R	-
						R	-
		1	l			1	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMO	UNT
193		SECTION NO. 2: GUARD HOUSES					
193		BILL NO. 6					
193		ROOF COVERINGS, ETC.					
193		PROFILED METAL SHEETING AND ACCESSORIES					
		PROFILED METAL SHEETING Corrugated roof sheeting and accessories					
193		to match existing					
		0.58mm Corrugated galvanised sheet steel fixed to timber purlins or					
193		rails					
		Roof covering with pitch not exceeding 25 degrees with side laps seam					
193	1	stitched (Provisional).	m2	14		R	-
193	2	Ridge / hip capping 450mm girth.	m	14		R	-
193	_	Existing profiled metal sheeting					
		Take from store and install roof covering with pitch not exceeding 25					
193	3	degrees.	m2	14		R	-
193	4	Take from store and install ridge / hip capping 450mm girth.	m	14		R	-
						R	-
194		SECTION NO. 2: GUARD HOUSES					
194		BILL NO.7					
194		CARPENTRY AND JOINERY					
194		SUPPLEMENTARY PREAMBLES					
194		Particle board:					
		Particle board shall comply with the following specifications: a) SABS					
		1300 Particle board: exterior and flooring type b) SABS 1301 Particle					
194		board: interior type					
194		Joinery:					
		Descriptions of frames shall be deemed to include frames, transomes,					
194		mullions, rails, etc					
		Descriptions of hardwood joinery shall be deemed to include pelleting					
194		of bolt holes					
194		Fixing					
		Items described as "nailed" shall be deemed to be fixed with hardened					
194		steel nails or shot pins to brickwork or concrete					
194		Decorative laminate finish:					
		Laminate finish shall be glued under pressure. Edge strips shall be butt					
194		jointed at junctions with adjacent similar finish					
194		ROOFS ETC					
194		Plate nailed timber roof truss construction					
194		The following is applicable in respect of roof trusses:					
		S.A. Pine prefabricated truss system with corrugated roof covering					
		(elsewhere) to building approximate size 5m ² overall on plan, designed					
		in accordance with International Truss Systems (ITC) and					
		manufactured in accordance with ITC all conforming to the relevant					
		SABS Codes of Practise, tie beam varying sizes , with pitch of 17°,					
		including all relevant bracing, hips and valley-sets, etc South East					
195	1	Guard House (Provisional).	Item	1		R	-
		S.A. Pine prefabricated truss system with corrugated roof covering					
		(elsewhere) to building approximate size 8m ² overall on plan, designed					
		in accordance with International Truss Systems (ITC) and					
		manufactured in accordance with ITC all conforming to the relevant					
		SABS Codes of Practise, tie beam varying sizes , with pitch of 17°,					
		including all relevant bracing, hips and valley-sets, etc North East					
195	2	Guard House (Provisional).	Item	1		R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
195		Existing roof trusses					
195	3	Allow for taking from store, hoisting up, erecting and repairing existing trusses as necessary, including all relevant wall plates, bracing, purlins, rafters, hips, etc, approximate size 5m ² (South East Guard House).	ltem	1		R -	
		Allow for taking from store, hoisting up, erecting and repairing existing trusses as necessary, including all relevant wall plates, bracing, purlins,					
195	4	rafters, hips, etc, approximate size 8m ² (North East Guard House).	Item	1		R -	
195		Sawn softwood					
195	5	38 x 114mm Wall plate.	m	18		R -	
195		WOOD PRESERVATIVE					
	_	Two coats wood preservative applied hot on sawn timbers before					
195	6	fixing.	m2	3		R -	
197		SECTION NO. 2: GUARD HOUSES					
197		BILL NO. 8					
197		IRONMONGERY					
197		SUPPLEMENTARY PREAMBLES					
197		Finishes to ironmongery					
		Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH					
		Chromium plated SC Satin chromium plated SE Silver enamelled GE					
		Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised					
		gold ABL Anodised black PB Polished brass PL Polished and lacquered					
197		PT Epoxy coated SD Sanded					
197		WINDOW HANDLES, STAYS, CATCHES, ETC					
		Allow for servicing existing standard steel windows and leave same					
197	1	fully functional.	No	10		R -	
197	2	Replace brass window peg stay.	No	4		R -	
197	3	Replace brass window handles.	No	5		R -	
						R -	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
198		SECTION NO. 2: GUARD HOUSES					
198		BILL NO. 9					
198		METALWORK					
198		SUPPLEMENTARY PREAMBLES					
198		Descriptions					
198		Descriptions of bolts shall be deemed to include nuts and washers					
190		Descriptions of expansion anchors and bolts and chemical anchors and					
		bolts shall be deemed to include nuts, washers and mortices in					
198		brickwork or concrete					
150		Metalwork described as "holed for bolt(s)" shall be deemed to exclude					
198		the bolts unless otherwise described					
198		PRESSED STEEL DOOR AND WINDOW FRAMES					
198		Mild steel purpose made windows with chrome fittings and stays					
198	1	Take from store and build in window size 533 x 1250mm high overall.	No	3		R -	
198	2	Take from store and build in window size 1511 x 1250mm high overall.	No	2		R -	
198		Supply and fix					
198	3	Window size 533 x 1250mm high overall.	No			Rate only.	
198	4	Window size 1511 x 1250mm high overall.	No			Rate only. R -	
100							
199		SECTION NO. 2: GUARD HOUSES BILL NO. 10					
199 199		PLASTERING					
199		SCREEDS					
199		3:1 Cement plaster screeds steel trowelled on concrete:					
199	1	25mm thick on floors.	m2	17		R -	
199	2	25mm thick freads and risers of stairs including reeding	m2	4		R -	
199		INTERNAL PLASTER	1112				
199		Cement plaster on brickwork:					
199	3	On walls.	m2	16		R -	
199	4	On narrow widths.	m2	3		R -	
199		EXTERNAL PLASTER					
199		Cement plaster on brickwork:					
199	5	On walls.	m2	29		R -	
199	6	On narrow widths.	m2	23		R -	
						R -	
I	I	I		I		I	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AM	OUNT
200		SECTION NO. 2: GUARD HOUSES					
200		BILL NO. 11					
200		PLUMBING AND DRAINAGE (PROVISIONAL)					
200		RAINWATER DISPOSAL (PROVISIONAL):					
200		0.8 mm Galvanised sheet iron with Colomet finish one side:					
200		150 x 125 x 150mm High eaves gutter fixed to falls in continuous					
		lengths at not exceeding 600mm centres with and including approved					
200	1	gutter brackets.	m	20		R	-
200	2	Extra over eaves gutter for internal or external angle.	No	8		R	-
200	3	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	3		R	-
		100 x 75mm Rainwater pipes fixed to walls with and including					
200	4	approved holderbats at 900mm centres.	m	16		R	-
200	5	Extra over rainwater pipe for bend.	No	3		R	-
200	6	Extra over rainwater pipe for shoe.	No	3		R	-
						R	-
201		SECTION NO. 2: GUARD HOUSES					
201		BILL NO. 12					
201		GLAZING					
201		GLAZING TO STEEL WITH PUTTY					
201		4mm Clear sheet glass:					
201	1	Panes exceeding $0.1m^2$ and not exceeding $0.5m^2$.	m2	5			
201	-	Tanes exceeding 0.111 and not exceeding 0.511.	1112			R R	-
202		SECTION NO. 2: GUARD HOUSES					
202		BILL NO. 13					
202		PAINTWORK					
202		PREPARATORY WORK TO EXISTING WORK					
202		Previously painted plastered surfaces					
		Surfaces shall be thoroughly washed down and allowed to dry					
		completely before any paint is applied. Blistered or peeling paint shall					
		be completely removed and cracks shall be opened, filled with a					
202		suitable filler and finished smooth					
202		Previously painted metal surfaces					
202		Surfaces shall be thoroughly rubbed and cleaned down. Blistered or					
202							
202		peeling paint shall be completely removed down to bare metal					
202		Previously painted wood surfaces					
		Surfaces shall be thoroughly cleaned down. Blistered or peeling paint					
		shall be completely removed and cracks and crevices shall be primed,					
202		filled with suitable filler and finished smooth					
202		PAINTWORK ETC TO PREVIOUSLY PAINTED WORK					
202		ON METAL					
		Prepare, touch up, apply bonding primer and apply two coats enamel					
202		paint					
202	1	Repaint existing steel window frames, colour to match existing.	m2	18		R	-
		Repaint existing galvanised steel roofing sheets, colour to match					
202	2	existing	m2	23		R	-
202	3	Repaint existing gutters and down pipes, colour to match existing.	m	48		R	-
203	5	ON PLASTERED SURFACES					-
205		Prepare and apply one bonding coat and paint with two coats					
202							
203		premium quality pure acrylic PVA on:					
203	4	Interior floated walls.	m2	54		R	-
203	5	Exterior floated walls.	m2	42		R	-
203		ON FAIR FACED BRICKWORK					
		Two coats solvent based UV resistant clear gloss acrylic brick dressing					
203		on:					
203	6	Walls.	m2	21		R	-
		ON WOOD	1	1		1	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Prepare, touch up, apply bonding primer and apply two coats enamel				
203		paint				
203	7	General surfaces of roof timbers.	m2	26		R -
203		PAINTWORK ETC TO NEW WORK				
203		ON PLASTERED SURFACES				
		Prepare and apply one undercoat and paint with two coats premium				
203		quality pure acrylic PVA on:				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	4	MOUNT
203	8	Interior textured walls.	m2	13		R	-
203	9	Exterior textured walls.	m2	16		R	-
203	10	Interior floated walls.	m2	19		R	-
203	11	Exterior floated walls.	m2	30		R	-
203		ON METAL					
		Clean down, prepare, touch up manufacturers priming coat, apply one					
204		undercoat and finish with two coats superior quality enamel on:					
204	12	Pressed steel windows (both sides measured).	m2	10		R	-
204	13	100 x 125mm Eaves gutter.	m	20		R	-
204	14	100 x 75mm Down pipes.	m	13		R	-
		Clean down, prepare, apply one coat galvanised iron primer and finish					
204		with two coats superior quality enamel on:					
204	15	Roof coverings, colour to match existing.	m2	14		R	-
						R	-
		Section Summary					
206	1	DEMOLITIONS AND ALTERATIONS	Page	179		R	-
206	2	EARTHWORKS	Page	183		R	-
206	3	CONCRETE, FORMWORK AND REINFORCEMENT	Page	187		R	-
206	4	MASONRY	Page	191		R	-
206	5	WATERPROOFING	Page	192		R	-
206	6	ROOF COVERINGS	Page	193		R	-
206	7	CARPENTRY AND JOINERY	Page	196		R	-
206	8	IRONMONGERY	Page	197		R	-
206	9	METALWORK	Page	198		R	-
206	10	PLASTERING	Page	199		R	-
206	11	PLUMBING & DRAINAGE	Page	200		R	-
206	12	GLAZING	Page	201		R	-
206	13	PAINTWORK	Page	205		R	-
		Carried to Final Summary				R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE		AMOUNT
		DESCRIPTION		GOANIT	NATE	'	
207		SECTION NO. 3: RETAINING WALLS					
207		BILL NO. 1					
207		DEMOLITIONS AND ALTERATIONS					
207		REMOVAL OF EXISTING WORK					
207		Removing fencing, etc.					
		Carefully remove existing barbed wire fencing approximate size 2m					
207	1	high and set aside for re-use.	m	37		R	-
207	2	Remove existing diamond mesh fencing and cart away	m2	215		R	-
207		Breaking up and removing stone facade					
		Carefully demolish stone facade from the top down in sections of 1					
207	3	metre and set aside for re-use (measured on face).	m2	296		R	-
207		Breaking up and removing screed, plaster, pavings, etc.					
207	4	Precast concrete pavers and set aside for re-use.	m2	98		R	-
		Break down existing brick walls including all steel door and window					
207		frames and cart away debris					
207	5	400mm Thick dwarf brick wall in superstructure.	m2	20		R	-
207	6	400mm Thick dwarf brick wall in foundations.	m2	10		R	-
207		Protection and relocation of existing services					
		Allow for protection / relocation of existing gas bottle cage and gas					
207	7	cylinders for the duration for the duration of the contract.	No	1		R	-
		Allow for protection / relocation of existing air conditioning units for					
207	8	the duration for the duration of the contract.	No	3		R	-
						R	-
208		SECTION NO. 3: RETAINING WALLS					
208		BILL NO. 2					
208		EARTHWORKS (PROVISIONAL)					
208		SUPPLEMENTARY PREAMBLES					
208		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					
208		that" where the ground has been investigated by means of trial holes					
208		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					
208		separately measured					
208		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					
208		site					
208		SITE CLEARANCE ETC					
208		Site clearance					
200	1	Stripping average 150mm thick layer of top soil and stockpiling on site.		200			
208	1		m2	296		R	-
200		Digging up and removing rubbish, debris, vegetation, hedges, shrubs					
208	2	and trees not exceeding 200mm girth, bush, etc.	m2	296		R	-
209		BULK EXCAVATION, FILLING, ETC					
209		Excavation in earth over sloping site not exceeding 2m deep					
209	3	Open face excavation.	m3	1654		R	-
209	4	For retaining walls foundations.	m3	827		R	-
200		Excavation in earth over sloping site exceeding 2m and not exceeding					
209		4m deep For retaining walls foundations					
209	5	For retaining walls foundations.	m3	827		R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN	т
209		Extra over bulk excavation in earth for excavation in					
209	6	Soft rock.	m3	331		R	-
209	7	Hard rock.	m3	165		R	-
209		Extra over bulk excavation in earth for breaking up and removing					
209	8	Unreinforced concrete	m3	3		R	-
209	9	Reinforced concrete.	m3	32		R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AM	OUNT
209		EXCAVATION, FILLING, ETC					
209		Extra over all excavations for carting away:					
		Surplus material from excavations and/or stock piles on site to a					
209	10	dumping site to be located by the contractor.	m3	744		R	-
209		Risk of collapse of excavations:					
209	11	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	56		R	-
209	12	Sides of trench and hole excavations exceeding 1,5m deep.	m2	241		R	-
209		Keeping excavations free of water:					
209 210	13	Keeping excavations free of all water other than subterranean water. EARTH FILLING, ETC.	Item	1		R	-
		Earth filling of G7 quality material obtained from the excavations and /					
		or prescribed stock piles on site compacted to 95% Mod. AASHTO					
210		density:					
210	14	Backfilling behind retaining walls.	m3	2392		R	-
		Earth filling of G5 quality material supplied by the contractor					
210		compacted to 95% Mod AASHTO density:					
210	15	Backfilling behind retaining walls.	m3	519		R	-
		Filling of natural G4 gravel material supplied by the contractor,					
210		compacted to 90% Mod AASHTO density					
210	16	Backfilling behind retaining walls.	m3	356		R	-
		Selected topsoil filling obtained from the excavations and/or					
210		prescribed stock piles on site, lightly consolidated					
210	17	In landscape mounds, berms, etc	m3	18		R	-
210		Selected topsoil filling supplied by the contractor, lightly consolidated					
210	18	In landscape mounds, berms, etc	m3	48		R	-
210		Prescribed density tests on filling:					
		Allow for compaction tests by an approved laboratory to determine					
210	19	density of filling material.	No	3		R	-
						R	-

PAGE NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
					NAIL	
212		SECTION NO. 3: RETAINING WALLS				
212		BILL NO. 3				
212		CONCRETE, FORMWORK AND REINFORCEMENT				
212		SUPPLEMENTARY PREAMBLES				
212		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				
242		by the contractor to the approval of the architect. (Test cubes are				
212		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				
212		the ash added afterwards and thoroughly incorporated				
212		"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				
212		minimum thickness at outlets, channels, etc shall be 50mm				
212		"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				
212		minimum thickness at outlets, channels, etc shall be 30mm				
213		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				
213		stripping and for reconditioning as necessary before re-use				
215		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				
213		support itself.				
		Formworks to soffits of solid etc shall be deemed to be slabs not				
213		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				
213		the excavations, provision for which is made in "Earthworks"				
213		FOUNDATIONS (PROVISIONAL)				
213		UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
213		25MPa/20mm concrete:				
213	1	Footings to walls (Provisional).	m3	32		R -
213		REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
213		25MPa/20mm concrete:				
213	2	Bases, etc (Provisional).	m3	111		R -
213		REINFORCED CONCRETE				
214	_	25MPa/20mm concrete:				
214	3	Walls.	m3	159		R -

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
214		TEST CUBES				
		Making and testing set of three 150x150x150mm concrete strength				
214	4	test cubes (Provisional).	No	32		R -
214		CONCRETE SUNDRIES				
214		Sandblasting of concrete surfaces to expose aggregate				
214	5	Sides of existing columns.	m2	23		R -

AGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMO	UNT
		Cement work of 1:3 liquid cement and sand mixture applied with a					
214		brush					
214	6	Sides of existing columns.	m2	23		R	-
214		ROUGH FORMWORK (DEGREE OF ACCURACY III)					
214		Rough Formwork to Sides					
214	7	Walls not exceeding 3.5m bearing level, sloping.	m2	278		R	-
214	8	Walls exceeding 3.5m but not exceeding 5m bearing level, sloping.	m2	119		R	-
214	9	Walls exceeding 5m but not exceeding 6.5m bearing level, sloping.	m2	119		R	-
214	10	Walls exceeding 6.5m but not exceeding 8m bearing level, sloping.	m2	119		R	-
214	11	Walls exceeding 8m but not exceeding 9.5m bearing level, sloping.	m2	43		R	-
214		MOVEMENT JOINTS ETC					
211		Expansion joints with bitumen filler board between vertical concrete					
214		surfaces					
214	12		m2	33		Б	
	12	10mm Joints exceeding 300mm high.	mz	33		R	-
215		SUNDRIES					
215		Openings, etc					
		Form or leave holes for 110mm pipes through concrete walls					
215	13	approximately 1.8m thick.	No	41		R	-
215		Weep holes, etc.					
215		Class 34 uPVC piping:					
215	14	110mm Diameter pipes.	m	160		R	-
215		REINFORCEMENT (PROVISIONAL)					
215		High tensile steel reinforcement to structural concrete work					
215	15	32mm Diameter bars.	t	27,07		R	-
215	16	25mm Diameter bars.	t	3,32		R	-
215	17	16mm Diameter bars.	t	12,32		R	-
215		Mild steel reinforcement to structural concrete work					
215	18	10mm Diameter bars.	t	0,33		R	-
215		ANCHORING, ETC		-,			
215		Anchoring to retaining walls					
215		Allow the amount of R300,000.00 for anchors to engineer's					
215	19	specification executed complete.	Item	1		Б	
215	19	specification executed complete.	item	1 ¹		R	
						N	
217							
217		SECTION NO. 3: RETAINING WALLS					
217		BILL NO. 4					
217		PRECAST CONCRETE					
217		PREAMBLES					
		"Note for preambles see "Specification of materials and methods to be					
		used - General Specification for building contracts standard					
217		conditions". (GP ASC Rev 0).					
217		SUPPLEMENTARY PREAMBLES					
217		Sizes:					
		Blocks, sills, etc measured linear shall be made in suitable lengths.					
		Large size setting out drawings shall be prepared where necessary and					
217		submitted to the architect for approval before moulds are made					
217		General:					
		Where kerbstones, blocks, etc are laid in ground descriptions shall be					
217		deemed to include necessary excavation, filling in and ramming					
217		PAVERS					
		Pavers to match existing laid on 25mm thick river sand bed including					
217		preparation of ground or filling					
	1	Take from store and re-lay concrete pavers to match existing.	m2			R	
217				98			
217	-						
217 217		Supply and fix				Date	
217	2	Supply and fix Concrete pavers size 195 x 155 x 50mm thick (Provisional).	m2	98		Rate only	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
218		SECTION NO. 3: RETAINING WALLS		20,	10112	/
218		BILL NO. 5				
218		MASONRY				
218		SUPPLEMENTARY PREAMBLES				
218		BRICKWORK				
218		Sizes in descriptions				
		Where sizes in descriptions are given in brick units, "one brick" shall				
218		represent the length and "half brick" the width of a brick				
218		Hollow walls etc				
		Descriptions of hollow walls shall be deemed to include leaving every				
		fifth perpend of the bottom course of the external skin open as a weep				
218		hole.				
		Walls in two skins described as "bagged and sealed" shall be deemed				
		to include having the outer face of the inner skin bagged with 1:6				
		cement and sand mixture and sealed with two coats "Brixeal" bitumen				
218		emulsion waterproofing coating.				
218		User note:				
		The above preamble generally applies for works in hot and humid				
218		coastal areas				
218		Face bricks				
		Bricks shall be ordered timeously to obtain uniformity in size and				
218		colour				
218		Pointing				
		Descriptions of recessed pointing to fair face brickwork and face				
		brickwork shall be deemed to include square recessed, hollow				
218		recessed, weathered pointing, etc				
219		FOUNDATIONS (PROVISIONAL)				
_		Brickwork of NFX bricks (14 MPa nominal compressive strength) in				
219		Class I mortar:				
219	1	Two brick dwarf walls.	m2	10		R -
219	_	SUPERSTRUCTURE				
215		Brickwork of NFP bricks (14 MPa nominal compressive strength) in				
219		Class II mortar:				
219	2	Two brick dwarf walls.	m2	20		R -
219	<u> </u>	Brickwork reinforcement	1112	20		N .
219	3	Reinforcement to suit two brick walls built in horizontally.	m	120		R -
219	4	Ditto, but in foundations (Provisional).	m	57		R -
219	4	STONEWORK		57		
219		Stone wall linings to match existing				
219		5 5				
210		Take from store and re-lay stone façade to match existing, including		200		
219	5	bonding with cement and grouting where necessary.	m2	296		R -
210	C	Stone façade to match existing supplied by the contractor, including				Data ank
219	6	bonding with cement and grouting where necessary.	m2			Rate only.
						R -
221		SECTION NO. 3: RETAINING WALLS				
221		BILL NO. 6				
221		METALWORK				
221		SUPPLEMENTARY PREAMBLES				
221		Descriptions				
221		Descriptions of bolts shall be deemed to include nuts and washers				
		Descriptions of expansion anchors and bolts and chemical anchors and				
		bolts shall be deemed to include nuts, washers and mortices in				
221		brickwork or concrete				
		Metalwork described as "holed for bolt(s)" shall be deemed to exclude				
221		the bolts unless otherwise described				
221		FENCING				
221		Barbed wire fencing				

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Take from store and re-lay barbed wire fencing approximate size 2m high to match existing including posts, bases, excavations, backfilling,				
221		compaction, etc. Barbed wire fencing supplied by the contractor approximate size 2m high to match existing including posts, bases, excavations, backfilling,	m	37		R -
221	2	compaction, etc.	m	37		Rate only. R -

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOL	JNT
222		SECTION NO. 3: RETAINING WALLS					
222		BILL NO. 7					
222		PLASTERING					
222		EXTERNAL PLASTER					
222		Cement plaster on brickwork:					
222	1	On walls.	m2	37		R	-
						R	-
		Section Summary					
223	1	DEMOLITIONS AND ALTERATIONS	Page	207		R	-
223	2	EARTHWORKS	Page	211		R	-
223	3	CONCRETE, FORMWORK AND REINFORCEMENT	Page	216		R	-
223	4	PRECAST CONCRETE	Page	217		R	-
223	5	MASONRY	Page	220		R	-
223	6	METALWORK	Page	221		R	-
223	7	PLASTERING	Page	222		R	-
		Carried to Final Summary				R	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
224		SECTION NO. 4: WATERPROOFING				
224		BILL NO. 1				
224		DEMOLITIONS AND ALTERATIONS				
224		REMOVAL OF EXISTING WORK				
		Hacking up/off and removing concrete surface bed, tarmac, screeds,				
		plaster, etc and preparing surfaces for new concrete surface bed,				
224		tarmac, screeds, plaster, etc				
224	1	Waterproofing membrane and cart away.	m2	440		R -
224	2	50mm Screed from concrete roof, cart away debri and prepare surface		140		
224	2	to receive new screed (elsewhere measured). PROPPING UP	m2	440		R -
224 224						
224		Propping to existing surfaces Propping up vaulted walls propped to a height exceeding 1.5m and not				
224	3	exceeding 3.5m.	m2	440		R -
224	5	CRACK REPAIRS	mz	440		
224		Repairs to existing cracks				
224		Allow the sum of R60,000.00 for crack repairs to engineer's				
224	4	specifications	Item	1		R -
224	4	specifications	item			R -
						-
225		SECTION NO. 4: WATERPROOFING				
225		BILL NO. 2				
225		EARTHWORKS (PROVISIONAL)				
225		SUPPLEMENTARY PREAMBLES				
225		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				
225		that" where the ground has been investigated by means of trial holes				
225		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				
225		separately measured				
225		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				
225		site				
225		SITE CLEARANCE ETC				
225		Site clearance				
		Stripping avorage 450mm thick laws of the set of the data of all the set of t				
225	1	Stripping average 150mm thick layer of top soil and stockpiling on site.	m2	440		R -
225	2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs		140		
225	2	and trees not exceeding 200mm girth, bush, etc.	m2	440		R -
226		EXCAVATION, FILLING, ETC				
226	2	Excavation in earth not exceeding 2m deep:				
226	3	Open face excavation by hand.	m3	880		R -
226	л	Excavation in earth exceeding 2m and not exceeding 4m deep: Open face excavation by hand.				
226	4		m3	880		R -
226	E	Excavation in earth exceeding 4m and not exceeding 6m deep: Open face excavation by hand.		000		R -
226 226	5	Upen face excavation by nand. Extra over trench and hole excavations in earth for excavation in:	m3	880		
1 1	6	Soft rock.		20		
226	O	Extra over all excavations for carting away:	m3	26		R -
226		LAGA OVER AN EACAVALIONS FOR CALLING AWAY.	I	I		I

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
		Surplus material from excavations and/or stock piles on site to a	1				
226	7	dumping site to be located by the contractor.	m3	2640		R -	
226		Risk of collapse of excavations:					
226	8	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	213		R -	
226	9	Sides of trench and hole excavations exceeding 1,5m deep.	m2	639		R -	
226		Keeping excavations free of water:					

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE		AMOUNT
226	10	Keeping excavations free of all water other than subterranean water.	Item	1		R	-
226	10	EARTH FILLING, ETC.		-			
		Earth filling of 1:4 cement and G5 quality material imported from					
226		commercial sources compacted to 95% Mod. AASHTO density:					
226	11	Under solid floors in 150mm layers.	m3	440		R	-
		Earth filling of G5 quality material supplied by the contractor					
227		compacted to 95% Mod AASHTO density:					
227	12	Under floors, steps, pavings, etc.	m3	2200		R	-
		Selected topsoil filling obtained from the excavations and/or					
227		prescribed stock piles on site, lightly consolidated					
227	13	In landscape mounds, berms, etc	m3	66		R	-
227		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					
227	14	density.	m2	440		R	-
227		Prescribed density tests on filling:					
		Allow for compaction tests by an approved laboratory to determine					
227	15	density of filling material.	No	10		R	-
						R	-
229		SECTION NO. 4: WATERPROOFING					
229		BILL NO. 3					
229 229		WATERPROOFING SUPPLEMENTARY PREAMBLES					
229		Waterproofing					
229		Waterproofing of roofs, basements, etc shall be laid under a ten year					
		guarantee. Waterproofing to roofs shall be laid to even falls to outlets					
		etc with necessary ridges, hips and valleys. Descriptions of sheet or					
		membrane waterproofing shall be deemed to include additional labour					
229		to turn-ups and turn-downs					
229		WATERPROOFING TO ROOFS, BASEMENTS, ETC					
		One coat acrylic based bituminous primer to screed (elsewhere					
229		measured) as per manufacturer's specification.					
229	1	On concrete roofs.	m2	440		R	-
				_			
229		4mm "Derbigum SP" waterproofing or equally approved membrane					
229	2	On concrete roofs.	m2	440		R	-
		Additional membrane 450mm girth at turn-ups including flashing strip					
229	3	250mm girth and sealing top edge into groove with mastic.	m	57		R	-
229	4	Collar around pipe not exceeding 110mm internal diameter.	No	2		R	-
						R	-
230		SECTION NO. 4: WATERPROOFING					
230		BILL NO. 4					
230		PLASTERING					
230		SCREEDS					
230	1	50mm Average on floors.	m2	440		R	-
						R	-
		Section Summary					
231	1	DEMOLITIONS AND ALTERATIONS	Page	224		R	-
231	2	EARTHWORKS	Page	228		R	-
231	3	WATERPROOFING	Page	229		R	-
231	4	PLASTERING	Page	230		R	-
		Carried to Final Summary				-	
		Carried to Final Summary	I			R	-

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
232		SECTION NO. 5: WATER TOWERS				
232		BILL NO. 1				
232		DEMOLITIONS AND ALTERATIONS				
232		REMOVAL OF EXISTING WORK				
232		Demolish and cart away				
232	1	Remove existing corrugated sheets and cart away.	m2	62		Rate only.
232		CLEANING AND REPAIRING OF IN SITU WORK				
		Clean down existing surfaces as necessary to establish original				
232		condition				
232	2	External surfaces of water towers with high pressure hose.	m2	184		R -
232	3	Corrugated iron sheets (Provisional).	m2	124		R -
						R -
233		SECTION NO. 5: WATER TOWERS				
233		BILL NO. 2				
233		METALWORK				
233		SUPPLEMENTARY PREAMBLES				
233		Descriptions				
233		Descriptions of bolts shall be deemed to include nuts and washers				
		Descriptions of expansion anchors and bolts and chemical anchors and				
		bolts shall be deemed to include nuts, washers and mortices in				
233		brickwork or concrete				
		Metalwork described as "holed for bolt(s)" shall be deemed to exclude				
233		the bolts unless otherwise described				
233		GALVANIZED STEEL SHEETING				
233		0.58mm Galvanised sheeting				
		Sheeting fixed to steel members to engineer's specifications				
233	1	(Provisional).	m2	62		R -
						R -
	•	1	•			

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
234		SECTION NO. 5: WATER TOWERS				
234		BILL NO. 3				
234		PAINTWORK				
234		PREPARATORY WORK TO EXISTING WORK				
234		Previously painted plastered surfaces				
		Surfaces shall be thoroughly washed down and allowed to dry				
		completely before any paint is applied. Blistered or peeling paint shall				
		be completely removed and cracks shall be opened, filled with a				
234		suitable filler and finished smooth				
234		Previously painted metal surfaces				
		Surfaces shall be thoroughly rubbed and cleaned down. Blistered or				
234		peeling paint shall be completely removed down to bare metal				
234		Previously painted wood surfaces				
		Surfaces shall be thoroughly cleaned down. Blistered or peeling paint				
		shall be completely removed and cracks and crevices shall be primed,				
234		filled with suitable filler and finished smooth				
234		PAINTWORK ETC TO PREVIOUSLY PAINTED WORK				
234		ON METAL				
		Clean down, remove all rust by means of rust solvent, prepare, apply				
		one anti rust coat and finish with two coats superior quality silver				
234		aluminium paint on:				
234	1	Exterior surfaces of water towers.	m2	184		R -
234	2	Corrugated iron sheets.	m2	124		R -
235	3	General surfaces of steel members.	m2	233		R -
235 235	4	General surfaces of steel members girth not exceeding 300mm. PAINTWORK ETC TO NEW WORK	m	48		R -
		Clean down, prepare, apply one bonding coat and finish with two coats				
235		superior quality silver aluminium paint on:				
235	5	Corrugated iron sheets (Provisional).	m2	124		Rate only.
						R -
		Section Summary				
237	1	DEMOLITIONS AND ALTERATIONS	Page	232		R -
237	2	METALWORK	Page	233		R -
237	3	PAINTWORK	Page	236		R -
		Carried to Final Summary				R -

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN	IT
238		SECTION NO. 6: GENERAL					
238		BILL NO. 1					
238		INTERNAL FACADES OF THE RAMPART ROOMS					
238		REMOVAL OF EXISTING WORK					
230							
		Hacking up/off and removing concrete surface bed, tarmac, screeds,					
		plaster, etc and preparing surfaces for new concrete surface bed,					
238		tarmac, screeds, plaster, etc					
		External plaster to walls and prepare to receive new plaster (elsewhere					
238	1	measured)	m2	147		R	
238		MAKING GOOD OF FINISHES ETC					
238		Making good brickwork					
		Filling in holes to faces of walls approximate size 200 x 100mm and					
238	2	patching up surfaces to receive plaster (elsewhere measured).	No	34		R	
238	_	EXTERNAL PLASTER					
238		Cement plaster on brickwork:					
	2						
238	3	On walls.	m2	147		R	
238		PAINTWORK ETC TO NEW WORK					
238		ON PLASTERED SURFACES					
		Prepare and apply one undercoat and paint with two coats premium					
238		quality pure acrylic PVA on:					
238	4	Exterior walls.	m2	147		R	
238		PAINTWORK ETC TO PREVIOUSLY PAINTED WORK					
239		ON METAL					
235		Prepare, touch up, apply bonding primer and apply two coats enamel					
220							
239	-	paint					
239	5	Repaint existing steel window frames, colour to match existing.	m2	8		R	
239		ON WOOD					
		Prepare, touch up, apply bonding primer and apply two coats enamel					
239		paint					
239	6	General surfaces of doors.	m2	8		R	
239	7	General surfaces of burglar bars.	m2	15		R	
						R	_
241		SECTION NO. 6: GENERAL					
241		BILL NO. 2					
241							
241		REMOVAL OF EXISTING WORK					
241		Removing fencing, etc.					
		Carefully remove existing barbed wire fencing approximate size 2.6m					
241	1	high and set aside for re-use.	m	72		R	
		Carefully remove existing barbed wire fencing approximate size 1.2m					
241	2	Carefully remove existing barbed wire fencing approximate size 1.2m high and set aside for re-use.	m	34		R	
241 241	2		m	34		R	
241	2	high and set aside for re-use. FENCING	m	34		R	
	2	high and set aside for re-use. FENCING Barbed wire fencing	m	34		R	
241	2	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m	m	34		R	
241 241		high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling,					
241	2	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc.	m m	34 34		R	
241 241		high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m					
241 241		high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc.					
241 241		high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m					
241 241 241	3	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling,	m	34		R	
241 241 241 241	3	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling, compaction, etc.	m	34		R	
241 241 241 241	3	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Supply and fix	m	34		R	
241 241 241 241 241 241	3	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Supply and fix Barbed wire fencing size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc (Provisional).	m	34 72		R	
241 241 241 241 241 241	3	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Supply and fix Barbed wire fencing size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc (Provisional). Barbed wire fencing approximate size 2m high to match existing	m	34 72		R	
241 241 241 241 241 241 241	3 4 5	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Supply and fix Barbed wire fencing size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc (Provisional). Barbed wire fencing approximate size 2m high to match existing including posts, bases, excavations, backfilling, compaction, etc	m m m	34 72 34		R R Rate only.	
241 241 241 241 241 241	3	high and set aside for re-use. FENCING Barbed wire fencing Take from store and re-lay barbed wire fencing approximate size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Take from store and re-lay barbed wire fencing approximate size 2.6m high to match existing including posts, bases, excavations, backfilling, compaction, etc. Supply and fix Barbed wire fencing size 1.2m high to match existing including posts, bases, excavations, backfilling, compaction, etc (Provisional). Barbed wire fencing approximate size 2m high to match existing	m	34 72		R	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT

222 SECTION N.G. GENERAL Image: Section of the sec	PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMO	UNT
242 PAVED RAMPART PATHWAY Image: Comparison of the construction of the constructin the constructin the construction of the co	242							
242 PAVED RAMPART PATHWAY Image: Statistic WORK Image: Statistic WORK Image: Statistic WORK Image: Statistic Work (Statistic WORK) Image: Statistic Work (Statistic WORK) Image: Statistic Work (Statistic Work (StatistWork (Statistic Work (Statistic Work (Statistic Work (Stat								
242 Image: Breaking up and removing of concrete pavers and set aside for re-use. Carefully remove precast concrete pavers and set aside for re-use. Carefully remove precast concrete bases. m 742 R - 242 2 including necessary exavation and concrete bases. m 742 R - 242 3 Reduced levels under floors. Extra over trench and hole excavations in earth for excavation in: Extra over all excavations for carting away: Surplus material from excavations and/or stock piles on site to a m3 20 R - 242 6 dumping site to be located by the contractor. Earth fluing of CS quality material from excavations and/or stock piles on site to a m3 66 R - 242 7 Under floors, steps, paving, etc. Compacted to 95% Mod AASHTO density: m3 66 R - 243 8 density. m3 663 R - 243 9 density. m3 663 R - 243 9 density. m2 663 R - 243 9 density. m2 663 R - 244 10 To compaction of surfaces m3 663 R - 242 6 dumping site to be located by the contractor m3 663 <td>242</td> <td></td> <td>PAVED RAMPART PATHWAY</td> <td></td> <td></td> <td></td> <td></td> <td></td>	242		PAVED RAMPART PATHWAY					
242 1 Carefully remove precast concrete payers and set aside for re-use. Carefully remove precast concrete kerbs and set aside for re-use. including necessary execution and concrete bases. m 742 R - 242 2 including necessary execution and concrete bases. m 742 R - 242 Excavation in earth not exceeding 2m deep: m3 199 R - 242 Extra over trench and hole excavations in earth for excavation in: m3 200 R - 242 4 Soft rock. m3 200 R - 242 5 Hard rock. m3 100 R - 242 6 dumping site to be located by the contractor. m3 66 R - 242 7 Under floors, steps, pavings, etc. m3 66 R - 243 8 density. material dom surface under floors et including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material. material dom surface - 243 8 density. material. M0A ASHTO material. R - 243 9 density. filling: material. M0A ASHTO - 243 10 density. </td <td>242</td> <td></td> <td>REMOVAL OF EXISTING WORK</td> <td></td> <td></td> <td></td> <td></td> <td></td>	242		REMOVAL OF EXISTING WORK					
242 1 Carefully remove precast concrete payers and set aside for re-use. Carefully remove precast concrete kerbs and set aside for re-use. including necessary execution and concrete bases. m 742 R - 242 2 including necessary execution and concrete bases. m 742 R - 242 Excavation in earth not exceeding 2m deep: m3 199 R - 242 Extra over trench and hole excavations in earth for excavation in: m3 200 R - 242 4 Soft rock. m3 200 R - 242 5 Hard rock. m3 100 R - 242 6 dumping site to be located by the contractor. m3 66 R - 242 7 Under floors, steps, pavings, etc. m3 66 R - 243 8 density. material dom surface under floors et including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material. material dom surface - 243 8 density. material. M0A ASHTO material. R - 243 9 density. filling: material. M0A ASHTO - 243 10 density. </td <td>242</td> <td></td> <td>Breaking up and removing of concrete paving, etc.</td> <td></td> <td></td> <td></td> <td></td> <td></td>	242		Breaking up and removing of concrete paving, etc.					
242Carefully remove precast concrete kerbs and set aside for re-use including necessary excavation and concrete bases.m742RI2422Excavation in earth not exceeding 2m deep: Excavation and not exceeding 2m deep: Extra over trench and hole excavations in earth for excavation in: Extra over trench and hole excavations in earth for excavation in: Surplus material from excavations and/or stock piles on site to a Surplus material from excavations and/or stock piles on site to a Surplus material from excavations and/or stock piles on site to a Extra over all excavations and/or stock piles on site to a Compacted to 9% Mod AASH10 density: Compacted to 9% Mod AASH10 density: Compaction of srunds surface under floors et including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASH10 material where necessary and compacting to 93% Mod AASH10 material, adding suitable material where necessary and compacting to 93% Mod AASH10 material including preparation of ground or filing Allow for compaction tests by an approved laboratory to determine Allow for compaction tests by an approved laboratory to determine Allow for compaction tests by an approved laboratory to determine Allow for most end re-lay concrete pavers.m2663R.24310Tak from store and re-lay concrete pavers.	242	1		m2	663		R	-
242 EXCAVATION, FILLING, ETC r r 242 Beduced levels under floors. m3 199 R - 242 A Settra over trench and hole excavations in earth for excavation in: m3 20 R - 242 4 Soft rock. m3 20 R - 242 5 Hard rock. m3 10 R - 242 6 dumping site to be located by the contractor. m3 66 R - 242 7 Under floors, steps, pavings, etc. m3 66 R - - 243 7 Under floors, steps, pavings, etc. m3 66 R - - 243 9 density of filling material. m2 663 R - - 243 9 density tests on filling: numerial where necessary and compacting to 93% Mod AASHTO numerial where necessary and compacting to 93% Mod AASHTO R - 243 9 density of filling material. No 10 R - 243 9 de								
242 Excavation in earth not exceeding 2m deep: m3 199 R - 242 Bettra over trench and hole excavations in earth for excavation in: m3 20 R - 242 Soft rock. m3 20 R - 242 Soft rock. m3 20 R - 242 Soft rock. m3 10 R - 242 Extra over trench and hole excavations and/or stock piles on site to a m3 10 R - 242 Extra over all excavations and/or stock piles on site to a m3 66 R - - 242 Extra filling of GS quality material supplied by the contractor m3 66 R - - 242 7 Under floors, steps, pavings, etc. m3 66 R - - 243 8 density. material where necessary and compacting to 93% Mod ASHTO m2 663 R - 243 9 density. filling material. No 10 R - 243 9 density. fa	242	2	including necessary excavation and concrete bases.	m	742		R	-
242 3 Reduced levels under floors. m3 199 R - 242 4 Soft rock. m3 20 R - 242 4 Soft rock. m3 10 R - 242 5 Hard rock. m3 10 R - 242 6 dumping site to be located by the contractor. m3 66 R - 242 6 dumping site to be located by the contractor. m3 66 R - 242 7 Under floors, steps, pavings, etc. m3 66 R - 243 8 density. m3 66 R - - 243 8 density. m2 663 R - - 243 9 density of filling material. M0 10 R - - 243 9 density of filling material. m3 10 R - - 243 10 Take from store and re-lay concrete pavers. m2 663 R	242		EXCAVATION, FILLING, ETC					
242Ktra over trench and hole excavations in earth for excavation in:mmZ0R-2424Soft rock.m320R2425Hard rock.m310R-2426dumping site to be located by the contractor.m310R-2426ARTH FILLING, ETC.m366R2427Under floors, steps, pavings, etc.m366R2437Under floors, steps, pavings, etc.m366R2438density.m366R2439density.m366R2439density.m2663R2439density.m3papproved laboratory to determine material where necessary and compacting to 93% Mod AASHTO material.m2663R-2439density.m3approved laboratory to determine including preparation of ground or filling material.No10R-24310Take from store and re-lay concrete pavers.m2663R24310Take from store and re-lay concrete haunching eccavation, backfilling, carting way, continuous co	242		Excavation in earth not exceeding 2m deep:					
2424Soft rock.m320R-2425Hard rock.m310R-2426dumping site to be located by the contractor.m366R-2426dumping site to be located by the contractor.m366R-2427Under floors, steps, pavings, etc.m366R-2437Under floors, steps, pavings, etc.m366R-2438depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTOm2663R-2438density.m2663R2439density of filling induction of ground or filling: a dopt of filling metal.No10R-24310Take from store and re-lay concrete pavers. Supply and fixm2663R24310Correte pavers size 195 x 155 x 50mm thick. KERBINGm2165R24312On straight, kerbing obtained from store. mation, backling at joints on straights, etc.:m712R-24312On straight, kerbing obtained from store. mation, backling at joints on straights, etc.:m70 x 300mm Half-battered concrete kerb jointed and pointed in 4:1 cement mortar and bedded in 15mg aconcrete including al necessary eccavarion, backling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.: </td <td>242</td> <td>3</td> <td>Reduced levels under floors.</td> <td>m3</td> <td>199</td> <td></td> <td>R</td> <td>-</td>	242	3	Reduced levels under floors.	m3	199		R	-
2425Hard rock.m310R-242Surplex material from excavations and/or stock piles on site to am366R-2426dumping site to be located by the contractor.m366R-2426dumping site to be located by the contractor.m366R-2427Under floors, steps, pavings, etc.m366R2437Under floors, steps, pavings, etc.m366R2438density.m2663R2439density of silling material.93% Mod AASHTOm2663R-2439density of filling material.No10R2439density of silling material.No10R24310Take from store and re-lay concrete pavers.m2663R24310Take from store and re-lay concrete pavers.m2663R24311Concrete pavers size 195 x 155 x 50mm thick.m2165R24312On straight, kerbing obtained from store.m30R24312On straight, kerbing obtained from store.m30R24313On radius not exceeding 4m, kerbing obtained from store.m30R-243<	242		Extra over trench and hole excavations in earth for excavation in:					
242Extra over all excavations for carting away: Surplus material from excavations and/or stock piles on site to a during site to be located by the contractor.m366R-2426dumping site to be located by the contractor. EARTH FILLING, ETC. Earth filing of GS quality material supplied by the contractor compaction of surfacesm366R-2427Under floors, steps, pavings, etc.m366R2437Under floors, steps, pavings, etc.m366R2438depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTOm2663R-2439density.m2663R2439density of filling material.No10R-2439density of material.No10R-2439density of material.No10R-2439density of material.No10R-24310Take from store and re-lay concrete pavers.m2663R-24310Take from store and re-lay concrete pavers.m2663R-24310Take from store and re-lay concrete pavers.m2165R-24310Take from store and re-lay concrete pavers.m30R-24311Concrete pavers size 195 x 155 x 50mm thick	242	4	Soft rock.	m3	20		R	-
242Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. EARTH FILLING, ETC. Earth filling of GS quality material supplied by the contractor compacted to 95% Mod AASHTO density: Compaction of surfaces Compaction of ground surface under floors etc including scarifying for a depth of 150m, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO material where necessary and compacting to	242	5	Hard rock.	m3	10		R	-
2426dumping site to be located by the contractor.m366R-242EARTH FILLING, ETC. EARTH FILLING, ETC. compacted to 95% Mod AASHTO density: 242m366R-2427Under floors, steps, pavings, etc. Compaction of surfaces Compaction of surd surface Allow for compacting to 93% Mod AASHTO Hilling material.m2663R-2438density.m2663R2439density of filling material. Incluing preparation of ground or filling Allow for compaction of ground or filling and hilling material.No10R-24310Take from store and re-lay concrete pavers. Supply and fix concrete pavers size 195 x 155 x 50mm thick.m2165R-24311Concrete pavers size 195 x 155 x 50mm thick.m1165R-24312On tradight, kerbing obtained from store.m712R-24312On tradight, kerbing obtained from store.m30R-24312On tradight, kerbing obtained from store.m30R-24314On tradight, kerbing obtained from store.m30R-243	242		Extra over all excavations for carting away:					
242 EARTH FILLING, ETC. Earth filling of G5 quality material supplied by the contractor main of G5 quality material supplied by the contractor 242 compacted to 95% Mod AASHTO density: m3 66 R - 243 7 Under floors, steps, pavings, etc. m3 66 R - 243 Compaction of ground surface under floors et including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO m2 663 R - 243 8 density. m2 663 R - 243 9 density tests on filling: Allow for compaction tests by an approved laboratory to determine Including preparation of ground or filling No 10 R - 243 9 density of filling material. No 10 R - 243 10 Take from store and re-lay concrete pavers. m2 663 R - 243 10 Concrete pavers size 195 x 155 x 50mm thick. m2 165 R - 243 11 Concrete pavers size 195 x 155 x 50mm thick. m2 165 R -			Surplus material from excavations and/or stock piles on site to a					
242 242 242 243Earth filling of GS quality material supplied by the contractor compacted to 95% Mod AASHTO density: Compaction of surfaces Compaction of surfaces 	242	6	dumping site to be located by the contractor.	m3	66		R	-
242 242 242compacted to 95% Mod AASHTO density: Under floors, steps, pavings, etc. 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 AASHTOm3666R-2438density. Prescribed density tests on filling: Allow for compaction tests by an approved laboratory to determine Bab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling Concrete pavers.No10R-24310Take from store and re-lay concrete pavers. Supply and fixm2663R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24312On straight, kerbing obtained from store. Supply and fixm70 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 30m712R-24312On straight, kerbing obtained from store. Supply and fixm30R-24314On straight, kerbing obtained from store. Supply and fixm8Rate only. Rate only.24314On straight, nerbing obtained from store. Supply and fixm8Rate only. Rate only.	242		EARTH FILLING, ETC.					
2427Under floors, steps, pavings, etc.m366R-243Compaction 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 AASHTOm2663R-2438density.m2663R2439density tests on filling: Allow for compaction tests by an approved laboratory to determine Including preparation of ground or filling slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling tast paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling tast paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling tast paving to match existing laid on 25mm thick.m2663R-24310Take from store and re-lay concrete pavers.m2663R-24311Concrete pavers size 195 x 155 x 50mm thick. weravation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:m70 x 300mm Half-battered concrete kerb jointed and pointed in 4:1 cement mortar and bedded in 15mpa concrete haunching on curves, concrete haunching at joints on straights, etc.:m712R-24312On straight, kerbing obtained from store.m30R24312On straight, kerbing obtained from store.m30R-24314On radius n			Earth filling of G5 quality material supplied by the contractor					
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243 243 243Compaction 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 AASHTOm2663R-243 243Prescribed density, tests on filling: Allow for compaction tests by an approved laboratory to determine Blab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling tincluding preparation of ground or fillingNo10R-243 243Take from store and re-lay concrete pavers. Supply and fix 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.:m2165R-243 24312On straight, kerbing obtained from store. Supply and fixm712R-243 24312On straight, kerbing obtained from store. Supply and fixm30R-243 24312On straight (Provisional).m8Rate only	242	7	Under floors, steps, pavings, etc.	m3	66		R	-
243a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTOm2663R-2438density.m2663R2439density of filling: Allow for compaction tests by an approved laboratory to determine baning material.No10R-2439density of filling material.No10R2439density of filling material.No10R24310Take from store and re-lay concrete pavers.m2663R24311Concrete pavers size 195 x 155 x 50mm thick.m2165R24311Concrete pavers size 195 x 155 x 50mm thick.m2165R24312On staight, kerbing obtained from store.m712R24312On staight, kerbing obtained from store.m3030Rate only24313On radius not exceeding 4m, kerbing obtained from store.m8Rate only24314On staight (Provisional).	243		Compaction of surfaces					
2438density. Prescribed density tests on filling: Allow for compaction tests by an approved laboratory to determine Allow for compaction tests by an approved laboratory to determinem2663R-2439density of filling material. PAVERS Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling tuncluding preparation of ground or filling take from store and re-lay concrete pavers.m2663R-24310Take from store and re-lay concrete pavers.m2663R-24311Concrete pavers size 195 x 155 x 50mm thick.m2165R-24312On straight, kerbing obtained from store.m712R-24312On straight, kerbing obtained from store.m30R-24313On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m4Rate only			Compaction of ground surface under floors etc including scarifying for					
2438density.m2663R-243Prescribed density tests on filling: Allow for compaction tests by an approved laboratory to determine density of filling material.No10R-2439density of filling material.No10R-2439density of filling material.No10R-24310Take from store and re-lay concrete pavers.m2663R-24310Take from store and re-lay concrete pavers.m2663R-24311Concrete pavers size 195 x 155 x 50mm thick.m2165R-24311Concrete pavers size 195 x 155 x 50mm thick.m2165R-24311Concrete pavers size 195 x 155 x 50mm thick.m2165R-24311Concrete pavers size 195 x 155 x 50mm thick.m2165R-24312On straight, kerbing obtained from store.m712R-24312On straight, kerbing obtained from store.m712R-24313On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m4A			a depth of 150mm, breaking down oversize material, adding suitable					
243Prescribed density tests on filling: Allow for compaction tests by an approved laboratory to determine Allow for compaction tests by an approved laboratory to determine PAVERS Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling tincluding preparation of ground or fillingNo10R-2439density of filling material. slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or fillingm2663R-24310Take from store and re-lay concrete pavers. Supply and fixm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-2430x300mm Half-battered concrete kerb jointed and pointed in 4:11 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching a on curves, concrete haunching at joints on straights, etc.:m712R-24312On straight, kerbing obtained from store. Supply and fixm38Rate only24313On radius not exceeding 4m, kerbing obtained from store. Supply and fixm8Rate only.Rate only.			material where necessary and compacting to 93% Mod AASHTO					
2439 density of filling material. PAVERS Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling Take from store and re-lay concrete pavers. Supply and fixNo10R-24310Take from store and re-lay concrete pavers. Supply and fixm2663R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24312Concrete haurching at joints on straights, etc.: on curves, concrete haunching at joints on straights, etc.: Supply and fixm712R-24312On straight (kerbing obtained from store. Supply and fixm30R-24314On straight (Provisional).m8Rate only.Rate only.	243	8	density.	m2	663		R	-
2439density of filling material. PAVERS Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or fillingNo10R-24310Take from store and re-lay concrete pavers. Supply and fixm2663R-24310Take from store and re-lay concrete pavers. Supply and fixm2105R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2105R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24312On staight, carting away, continuous concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:m712R-24312On radius not exceeding 4m, kerbing obtained from store. Supply and fixm30R-24314On straight (Provisional).m4Rate only	243		Prescribed density tests on filling:					
243PAVERS Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or fillingR24310Take from store and re-lay concrete pavers. Supply and fixm266324311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm216524311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm216570 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.:m71z24312On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m8Rate only. Rate only.			Allow for compaction tests by an approved laboratory to determine					
243Slab paving to match existing laid on 25mm thick river sand bed including preparation of ground or filling Take from store and re-lay concrete pavers.m2663R-24310Take from store and re-lay concrete pavers. Supply and fixm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-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.:m712R-24312On straight, kerbing obtained from store. Supply and fixm30R24313On radius not exceeding 4m, kerbing obtained from store. Supply and fixm8Rate only24314On straight (Provisional).m4Acte only	243	9	density of filling material.	No	10		R	-
243including preparation of ground or fillingm2663R-24310Take from store and re-lay concrete pavers. Supply and fixm2663R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24370 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.:m712R-24312On straight, kerbing obtained from store. Supply and fixm30R-24313On radius not exceeding 4m, kerbing obtained from store. Supply and fixm8Rate only.Rate only.24314On straight (Provisional).m4Rate only	243		PAVERS					
24310Take from store and re-lay concrete pavers. Supply and fixm2663R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24370 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.:m712R-24312On straight, kerbing obtained from store. Supply and fixm30R24314On straight (Provisional).m8Rate only.Rate only.24315On radius not exceeding 4m, (Provisional).m4AA			Slab paving to match existing laid on 25mm thick river sand bed					
243 24311Supply and fix Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-24370 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.:m712R-24312On straight, kerbing obtained from store. Supply and fixm30R-24314On straight (Provisional).m8Rate only.Rate only.24315On radius not exceeding 4m, (Provisional).m4Atte only.	243							
243 24311Concrete pavers size 195 x 155 x 50mm thick. KERBINGm2165R-243 <t< td=""><td>243</td><td>10</td><td>Take from store and re-lay concrete pavers.</td><td>m2</td><td>663</td><td></td><td>R</td><td>-</td></t<>	243	10	Take from store and re-lay concrete pavers.	m2	663		R	-
243KERBINGImage: Second	243		Supply and fix					
24370 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.:m712R-24312On straight, kerbing obtained from store.m712R-24313On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.	243	11	Concrete pavers size 195 x 155 x 50mm thick.	m2	165		R	-
243cement 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.:m712R-24312On straight, kerbing obtained from store.m712R-24313On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.	243		KERBING					
243cement 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.:m712R-24312On straight, kerbing obtained from store.m712R-24313On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.								
243excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:m712R-24312On straight, kerbing obtained from store.m712R-24313On radius not exceeding 4m, kerbing obtained from store.m30R-24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.			70 x 300mm Half-battered concrete kerb jointed and pointed in 4:1					
243on curves, concrete haunching at joints on straights, etc.:m712R24312On straight, kerbing obtained from store.m712R24313On radius not exceeding 4m, kerbing obtained from store.m30R24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.								
24312On straight, kerbing obtained from store.m712R24313On radius not exceeding 4m, kerbing obtained from store.m30R243Supply and fixn8R24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.								
24313On radius not exceeding 4m, kerbing obtained from store.m30R-243Supply and fixnnRate only.n24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.	243							
243Supply and fixm824314On straight (Provisional).m824315On radius not exceeding 4m, (Provisional).m4				m				-
24314On straight (Provisional).m8Rate only.24315On radius not exceeding 4m, (Provisional).m4Rate only.		13		m	30		R	-
243 15 On radius not exceeding 4m, (Provisional). m 4 Rate only.								
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	243	15	On radius not exceeding 4m, (Provisional).	m	4			
							R	-
				l			I	

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
245		SECTION NO. 6: GENERAL				
245		BILL NO. 4				
245		VENT PIPES				
245		REMOVAL OF EXISTING WORK				
245		Carefully take out and remove steel pipe fittings from pipes to remain				
		Steel covers / caps approximate size 150mm diameter and 500mm				
245	1	long and cart away.	No	2		R -
245		METALWORK				
245		Steel vent pipe covers				
245		Steel vent pipe covers / caps to match exisitng				
		Steel covers / caps approximate size 150mm diameter and 500mm				
245	2	long to Architect's specification fixed to existing steel pipes.	No	2		R -
245		PREPARATORY WORK TO EXISTING WORK				
245		PAINTWORK ETC TO PREVIOUSLY PAINTED WORK				
245		ON METAL				
		Clean down, prepare, apply one bonding coat and finish with two coats				
245		superior quality enamel on:				
245	3	Vent pipes not exceeding 300mm girth.	m	3		R -
245		PAINTWORK ETC TO NEW WORK				
245		ON METAL				
		Clean down, prepare, touch up manufacturers priming coat, apply one				
246		undercoat and finish with two coats superior quality enamel on:				
		Steel covers / caps approximate size 150mm diameter and 500mm				
246	4	long.	No	2		R -
						R -

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUN	Г
248		SECTION NO. 6: GENERAL					
248		BILL NO. 5					
248		VENT SHAFTS					
248		REMOVAL OF EXISTING WORK					
		Taking out and removing ceilings, roofing, panelling, etc, cart away					
248		rubble and prepare to receive new					
248	1	Existing poly translucent sheeting and cart away.	m2	24		R	-
248		EXCAVATION, FILLING, ETC					
248		Excavation in earth not exceeding 2m deep:					
248	2	Reduced levels under floors.	m3	3		R	-
248		Extra over all excavations for carting away:					
		Surplus material from excavations and/or stock piles on site to a					
248	3	dumping site to be located by the contractor.	m3	3		R	-
248		EARTH FILLING, ETC.					
		Earth filling of G5 quality material supplied by the contractor					
248		compacted to 95% Mod AASHTO density:					
248	4	Under floors, steps, pavings, etc.	m3	3		R	_
248		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					
248	5	density.	m2	23		R	-
248		Prescribed density tests on filling:					
-		Allow for compaction tests by an approved laboratory to determine					
248	6	density of filling material.	No	3		R	-
249	Ū	PAVERS		J			
		Slab paving laid on 25mm thick river sand bed including preparation of					
249		ground or filling					
249	7	60mm Thick interlocking concrete pavers.	m2	23		R	-
249		PROFILED POLY CARBONATE SHEETING					
249		0.58mm IBR poly carbonate translucent sheeting					
249	8	Sheeting to match existing fixed to Architect's specifications.	m2	24		R	_
249	-	PROFILED METAL SHEETING					
2.15		0.58mm Corrugated galvanised sheet steel fixed to timber/steel					
249		purlins or rails					
215		Flashing 450mm girth three times bend to detail and fixed to					
249	9	Architect's specifications.	m	52		R	-
249	5	Screws, etc.		52		``	
245		Allow the sum of R10,000.00 for replacing missing and rusted screws					
249	10	on existing sheeting.	Item	1		R	
243	10	on chisting sheeting.	n.em	1		R	
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PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
251		SECTION NO. 6: GENERAL				
251		BILL NO. 6				
251		LANDSCAPING				
251		SITE CLEARANCE ETC				
251		Site clearance				
251	1	Stripping average 150mm thick layer of top soil and stockpiling on site. Digging up and removing rubbish, debris, vegetation, hedges, shrubs	m2	22		R -
251	2	and trees not exceeding 200mm girth, bush, etc.	m2	22		R -
251	2	Selected topsoil filling obtained from the excavations and/or	mz	22		к -
251		prescribed stock piles on site, lightly consolidated				
251	3	In landscape mounds, berms, etc	m3	2		R -
251	5	in anuscape mounus, bernis, etc	1115	2		г
251		Selected topsoil filling supplied by the contractor, lightly consolidated				
251	4	In landscape mounds, berms, etc	m3	2		R -
251		Prescribed density tests on filling:				
		Allow for compaction tests by an approved laboratory to determine				
251	5	density of filling material.	No	2		R -
						R -
		Section Summary				
252	1	INTERNAL FACADES OF THE RAMPART ROOMS	Page	240		R -
252	2	HISTORIC WIRE FENCES	Page	241		R -
252	3	PAVED RAMPART PATHWAY	Page	244		R -
252	4	VENT PIPES	Page	247		R -
252	5	VENT SHAFTS	Page	250		R -
252	6	LANDSCAPING	Page	251		R -
		Carried to Final Summary				
	I	carried to rinal summary				R -

PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
253		SECTION NO. 7: PROVISIONAL SUMS				
253		BILL NO. 1				
253		PROVISIONAL SUMS				
253		NOMINATED SUB-CONTRACTS				
		The following Provisional Amounts are for work to be done by firms of				
		specialists and will be regarded as Nominated Sub-contractors to the				
		Contractor. The Contractor must obtain quotations from approved				
253		firms and submit them to the Agent/Representative for his approval.				
253		CASH DISCOUNT				
253		No cash discount. All provisional sums are "NET".				
253		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-				
253		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				
253		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				
253		responsible;				
		3) the provision of an area for office accommodation, temporary				
253		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				
254		upon the site;				
254		5) the use of messrooms, latrine, health and welfare facilities, and the				
254		like, where provided;				
254		6) the use of the site telephone (if provided) subject to the payment by the sub-contractor for all his outgoing calls;				
254						
254 254		7) temporary casing and/or other protection of the work;8) site security measures;				
254		9) hoisting of the sub-contractor's material in loads not exceeding 500				
254		kg;				
254		κ <u>ς</u> ,				
254		10) making good in all trades and final cleaning down on completion.				
254		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				
254		recovery of such costs via the installation of the necessary metres, etc.				
254		COMMUNITY LIAISON OFFICER				
234		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				
254	1	required	Item	1		R -
254	2	Allow for profit	%IT	5%		R -
254	3	Allow for attendance	%IT	5%		R -
		Carried to Final Summary				R -
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PAGE NO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMO	UNT
1 1		FINAL SUMMARY					
256	1	PRELIMINARIES	Page	173		R	-
	2	GUARD HOUSES	Page	206		R	-
	3	RETAINING WALLS	Page	223		R	-
	4	WATERPROOFING	Page	231		R	-
	5	WATER TOWERS	Page	237		R	-
	6	GENERAL	Page	252		R	-
	7	PROVISIONAL SUMS	Page	254		R	-
		Subtotal				R	-
		Contingencies @ 10%			10%	R	-
		Subtotal				R	-
		ADD: Value added Tax at 15%			15%	R	-
		TOTAL CARRIED TO FORM OF TENDER		I I		R	-