



Tender

CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ

AT THE

EAST LONDON INDUSTRIAL DEVELOPMENT ZONE

CONTRACT NO: EB/NW1/10/24/Z1A

**CONSTRUCTION OF A MANUFACTURING FACILITY
IN ZONE 1A OF THE ELIDZ**

ENVELOPE B: FINANCIAL PROPOSAL

East London IDZ
Lower Chester Road
Sunnyridge, East London
Contact person: Ms. Anathi Mzantsi
Email: anathi@elidz.co.za

PBA Quantity Surveyors
30 Chamberlain Road, Berea, East London
Contact Person: Mr. Inga Jakavula
Tel: 043 – 721 0984
Email: inga@pba.co.za

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____
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Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

PART C1: AGREEMENTS AND CONTRACT DATA

C1.1 CONTRACT DATA

C1.1: CONTRACT DATA – EMPLOYER**JBCC Principal Building Agreement Edition 6.2 - May 2018****A PROJECT INFORMATION****A 1.0 Works** [1.1]

Project name	Construction of a Manufacturing Facility in Zone 1A of the ELIDZ
Reference number	EB/NW1/10/24/Z1A
Works description	The proposed works comprise of a new manufacturing facility (sequencing factory) approximately 16 000m ² in size with attached double storey office block (approximately 490m ²) and attached single storey receiving office area, covered docking areas, covered side loading areas, refuse area, fire booster station, guardhouse, entrance canopy and associated mechanical and electrical installations and external works, comprising the civil engineering services, hardstands and paved sidewalks and parking areas.

A 2.0 Site [1.1]

Erf / stand number	Erven 60899 & 60901 – Zone 1A ELIDZ
Township / Suburb	Sunnyridge
Site address	Lower Chester Road, Sunnyridge, East London
Local authority	Buffalo City Metropolitan Municipality

A 3.0 Employer [1.1]

Name	East London Industrial Development Zone (ELIDZ) SOC Ltd		
Legal entity above	East London Industrial Development Zone (ELIDZ)	Contact person	Gary Whittaker
Business registration number	2003/012647/30	Telephone number	043 – 702 8200
VAT/GST number	4900213598	Mobile number	082 463 2299
Country	South Africa	E-mail	gary@elidz.co.za
Postal address	PO Box 5458, Greenfields, East London		
		Postal code	5208
Physical address	Lower Chester Road, Sunnyridge, East London		
		Postal code	5201

A 4.0 Principal agent [1.1]

Name	S & P Architects CC		
Legal entity of above	S & P Architects CC	Contact person	Jed Webber
Practice number		Telephone number	043 – 726 9327
		Mobile number	082 494 3359
Country	South Africa	E-mail	Jedw@smale.co.za
Postal address	PO Box 13186, Vincent, East London		
		Postal code	5217
Physical address	123 Western Avenue, Vincent, East London		
		Postal code	5247

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

A 5.0 Agent [1.1; 6.2]

Discipline	Architect
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Name	S & P Architects CC		
Legal entity of above	S & P Architects CC	Contact person	Jed Webber
Practice number		Telephone number	043 – 726 9327
		Mobile number	082 494 3359
Country	South Africa	E-mail	Jedw@smale.co.za
Postal address	PO Box 13186, Vincent, East London		
		Postal code	5217
Physical address	123 Western Avenue, Vincent, East London		
		Postal code	5247

A 6.0 Agent [1.1; 6.2]

Discipline	Project Manager
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Name	Engineering Advice and Services (Pty) Ltd		
Legal entity of above	Engineering Advice and Services	Contact person	Marcus Niemand
Practice number		Telephone number	041 – 581 2421
		Mobile number	082 787 9976
Country	South Africa	E-mail	marcus@easpe.co.za
Postal address	PO Box 13867, Humewood, Port Elizabeth		
		Postal code	6013
Physical address	73 Heugh Road, Walmer, Port Elizabeth		
		Postal code	6070

A 7.0 Agent [1.1; 6.2]

Discipline	Quantity Surveyor
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Name	Pulana Baxter and Associates CC		
Legal entity of above	Pulana Baxter and Associates CC	Contact person	Inga Jakavula
Practice number	15165642	Telephone number	043 – 721 0984
		Mobile number	073 019 1810
Country	South Africa	E-mail	inga@pba.co.za
Postal address	PO Box 19694, Tecoma, East London		
		Postal code	5214
Physical address	30 Chamberlain Road, Berea, East London		
		Postal code	5241

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

A 8.0 Agent [1.1; 6.2]

Discipline	Structural Engineer
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Name	HSC Consulting CC		
Legal entity of above	HSC Consulting CC	Contact person	Andrew Scott
Practice number		Telephone number	043 – 743 9528
		Mobile number	074 637 4939
Country	South Africa	E-mail	andrew@hsc.co.za
Postal address	PO Box 11166, Southernwood, East London		
		Postal code	5213
Physical address	18 St Marks Road, Southerwood, East London		
		Postal code	5200

A 9.0 Agent [1.1; 6.2]

Discipline	Civil Engineer
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Name	HSC Consulting CC		
Legal entity of above	HSC Consulting CC	Contact person	Andrew Scott
Practice number		Telephone number	043 – 743 9528
		Mobile number	074 637 4939
Country	South Africa	E-mail	andrew@hsc.co.za
Postal address	PO Box 11166, Southernwood, East London		
		Postal code	5213
Physical address	18 St Marks Road, Southernwood, East London		
		Postal code	5200

A 10.0 Agent [1.1; 6.2]

Discipline	Electrical Engineer
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Name	TO BE ADVISED (CURRENTLY BEING DESIGNED BY KCE)		
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

A 11.0Agent [1.1; 6.2]

Discipline	Mechanical Engineer
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Name	TO BE ADVISED (CURRENTLY BEING DESIGNED BY KCE)		
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

A 12.0Agent [1.1; 6.2]

Discipline	SHEQ Consultants
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Name	TO BE ADVISED		
Legal entity of above		Contact person	
Practice number		Telephone number	
		Mobile number	
Country		E-mail	
Postal address			
		Postal code	
Physical address			
		Postal code	

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

B CONTRACT INFORMATION

B 1.0 Definitions [1.1]

Bills of quantities: System/Method of measurement	The Bill of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work as amended published and issued by the Association of South African Quantity Surveyors (Seventh Edition, 2015).
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B 2.0 Law, regulations and notices [2.0]

Law applicable to the works , state country [2.1]	Republic of South Africa
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B 3.0 Offer and acceptance [3.0]

Currency applicable to this agreement [3.2]	ZAR
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B 4.0 Documents [5.0]

The original signed agreement is to be held by the principal agent [5.2], if not, indicate by whom	ELIDZ
Number of copies of construction information issued to the contractor at no cost [5.6]	3

Documents comprising the **agreement**

The **JBCC**® Principal Building Agreement, Edition 6.2 May 2018

The **JBCC**® Principal Building Agreement - Contract Data, Edition 6.2 May 2018

The **JBCC**® General Preliminaries for use with the **JBCC**® Principal Building Agreement, Edition 6.2 May 2018

Contract Drawings

Bills of Quantities (Balanced)

Contract Drawings

Drawing Number		Drawing Name	
Discipline:	Architecture	Issued:	S & P Architects
Refer Technical Proposal: Volume 1 of 2, Part D1 - Drawings			
Discipline:	Civil	Issued:	HSC Consulting Engineers
Refer Technical Proposal: Volume 1 of 2, Part D1 - Drawings			
Discipline:	Structural	Issued:	HSC Consulting Engineers
Refer Technical Proposal: Volume 1 of 2, Part D1 - Drawings			
Discipline:	Electrical	Issued:	Kuyaduduma Consulting Engineers
Refer Technical Proposal: Volume 1 of 2, Part D1 - Drawings		Designed by KCE – to be finalised by Electrical PSP once appointed by the ELIDZ	
Discipline:	Mechanical (Fire Protection, HVAC)	Issued:	Kuyaduduma Consulting Engineers
Refer Technical Proposal: Volume 1 of 2, Part D1 - Drawings		Designed by KCE – to be finalised by Mechanical PSP once appointed by the ELIDZ	

B 5.0 Employer's agents [6.0]

Authority is delegated to the following **agents** to issue **contract instructions** and perform duties for specific aspects of the **works** [6.2]

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

Principal Agent and delegated authority.

Principal agent's and agents' interest of involvement in the works other than a professional interest [6.3]

NA

B 6.0 Insurances [10.0]

Insurances by employer			Amount including tax	Deductible amount including tax
Contract works insurance:				
	New works [10.1.1] (contract sum or amount)		Contract Sum + 18%	
Or	Works with practical completion in sections [10.2] (contract sum or amount)		NA	
Or	Works with alterations and additions [10.3] (reinstatement value of existing structures with or including new works)		NA	
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance		NA	
	Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance		NA	
	Escalation, professional fees and reinstatement costs if not included above		NA	
Total of the above contract works insurance amount			Contract Sum + 18%	
Supplementary insurance [10.1.2; 10.2]			Contract Sum + 18%	The contractor is responsible for the deductible of 0.1% of the Contract Sum with a minimum of R2,500.00 and a maximum of R25,000.00 per incident.
Public liability insurance [10.1.3; 10.2]				
Removal of lateral support insurance [10.1.4; 10.2]				
Other insurances [10.1.5]				
Yes/no?		If yes, description 1		
Yes/no?		If yes, description 2		

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

and/or

Insurances by contractor			Amount including tax	Deductible amount including tax
Yes/no?	Yes			
		New works [10.1.1] (contract sum or amount)	NA	R25,000
		Works with practical completion in sections [10.2] (contract sum or amount)	NA	
		Works with alterations and additions [10.3] (reinstatement value of existing structures with or including new works)	NA	
		Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance	NA	
		Free issue [10.1.1; 10.2] where applicable, to be included in the contract works insurance	NA	
		Escalation, professional fees and reinstatement costs if not included above	NA	
Total of the above contract works insurance amount			R 0	
Supplementary insurance [10.1.2]			By employer	The contractor is responsible for the deductible of 0.1% of the Contract Sum with a minimum of R2,500.00 and a maximum of R25,000.00 per incident.
Public liability insurance [10.1.3]				
Spread of fire			R250,000	
All other cases			R20,000,000	
Removal of lateral support insurance [10.1.4]			NA	NA
Other insurances [10.1.5]:				
Yes/no?	Yes	If yes, description 1		R25,000
Damage to underground services				
Yes/no?		If yes, description 2		R15,000
Third party damage				

B 7.0 Obligations of the employer [12.1]

Existing premises will be in use and occupied [12.1.2]		Yes/no?	No
If yes, description	NA		
Restriction of working hours [12.1.2]		Yes/no?	No
If yes, description	NA		
Natural features and known services to be preserved by the contractor [12.1.3]		Yes/no?	No
If yes, description	NA		
Restrictions to the site or areas that the contractor may not occupy [12.1.4]		Yes/no?	No
If yes, description	NA		
Supply of free issue [12.1.10]		Yes/no?	No
If yes, description	NA		

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

B 8.0 Selected subcontractors [15.0]

Yes/no?	Yes	If yes, description of specialisation
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Specialisation 1	Electrical Installation (Includes Bulk Electrical / Earthing & Bonding / Access Control / Internal Domestic / PV)
Specialisation 2	Fire Protection Installation (Includes Booster Pumpstation, Fire Sprinkler System / Hose Reels / Extinguishers / Internal Fire Main / Signage / Specialised Painting for Emergency Equipment / Domestic Internal Water Main)
Specialisation 3	Fire Detection Installation
Specialisation 4	HVAC Installation
Specialisation 5	Building Signage
Specialisation 6	Landscaping

B 9.0 Direct contractors [16.0]

Yes/no?	No	If yes, description of extent of work
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Extent of work [12.1.11]	
Extent of work [12.1.11]	
Extent of work [12.1.11]	
Extent of work [12.1.11]	
Extent of work [12.1.11]	

B 10.0 Description of sections [20.1]

Section 1	Section 1 comprises the proposed new manufacturing facility (sequencing factory) approximately 16 000m ² in size, covered docking and side loading areas, entrance canopy, associated mechanical and electrical installations, external works encompassing civil engineering services and hardstands, as well as the fire booster station and water reservoirs.
Section 2	Section 2 consists of the double storey office block (approximately 490m ²), single storey receiving office area (approximately 70m ²), guardhouse, refuse facility, paved sidewalks and parking areas.
Section 3	NA
Section 4	NA
Section 5	NA

B 11.0 Possession of site [12.1.5], practical completion [19.0; 20.0] and penalty [24.0]

Practical completion for the works as a whole	Intended date of possession of the site [12.1.5]	Period for inspection by the principal agent [19.3]	Date for practical completion [12.2.7; 24.1]	Penalty [24.1]
	Date	working days	Date	Penalty amount per calendar day
	NA	NA	NA	NA

or where **sections** are applicable

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

Practical completion of a section of the works	Intended date of possession of a section [12.1.5]	Period for inspection by the principal agent [19.3]	The date for practical completion [12.2.7; 24.1]	Penalty for late completion [24.1]
	Date	working days	Date	Penalty amount per calendar day
Section 1	10 October 2025	164	30 June 2026	R 20 000
Section 2	10 October 2025	187	31 July 2026	R 20 000
Section 3				
Section 4				
Section 5				
Section 6				
Section 7				
Section 8				
Remainder of the works				

Criteria to achieve **practical completion** not covered in the definition of **practical completion** [12.2.19]

On achievement of practical completion, the contractor is to hand over data packs, manuals, guarantees, certificates of compliance, as-built records, etc. related to the works as listed: Electrical Installation, Sprinkler Installation, Fire Detection Installation, Air-conditioning Equipment Installation, Architectural Trades, Civil and Structural Works.

B 12.0 Payment [25.0]

Date of month for issue of regular payment certificates [25.2]	25 th day of the month		
Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]	Yes/no?	Yes	
If yes, method to calculate	CPAP Indices		

B 13.0 Dispute resolution [30.0]

Adjudication [30.6.1; 30.10] Name of nominating body	Adjudication
Applicable rules for adjudication [30.6.2]	
Arbitration [30.7.4; 30.10] Name of nominating body	
Applicable rules for arbitration [30.7.5]	

B 14.0 JBCC® General Preliminaries – selections

Provisional bills of quantities [P2.2]	Yes/no?	Yes	
Availability of construction information [P2.3]	Yes/no?	Yes	
Previous work - dimensional accuracy - details of previous contract(s) [P3.1]	NA		
Previous work - defects - details of previous contract(s) [P3.2]	NA		
Inspection of adjoining properties - details [P3.3]	NA		
Handover of site in stages - specific requirements [P4.1]	NA		
Enclosure of the works - specific requirements [P4.2]	All site establishment, offices and storage of materials will be strictly limited to the area demarcated (See C3.1: Scope of Work, paragraph 1.5 - Temporary Works), which must be suitably fenced with 1,8m high		

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

		'Bonnox' fencing covered with shade cloth to the satisfaction of the ELIDZ. The contractor shall be responsible for keeping such areas in a clean, sanitary and orderly condition.		
Geotechnical and other investigations - specific requirements [P4.3]		Yes, see attached (Envelope A, Volume 1 of 2, Part C5)		
Existing premises occupied - details [P4.5]		NA		
Services - known - specific requirements [P4.6]		Refer enclosed tender and record drawings		
Water [P8.1]	By contractor	Yes/no?		
	By employer	Yes/no?		
	By employer - metered	Yes/no?	Yes	
Electricity [P8.2]	By contractor	Yes/no?		
	By employer	Yes/no?		
	By employer - metered	Yes/no?	Yes	
Ablution and welfare facilities [P8.3]	By contractor	Yes/no?	Yes	
	By employer	Yes/no?		
Communication facilities - specific requirements [P8.4]		NA		
Protection of the works - specific requirements [P11.1]		NA		
Protection / isolation of existing works and works occupied in sections - specific requirements [P11.2]		The contractor shall locate and protect all existing services from damage by his operations on site.		
Disturbance - specific requirements [P11.5]		NA		
Environmental disturbance - specific requirements [P11.6]		NA		

B 15.0 Changes made to JBCC® documentation

Reference may be made to other documents forming part of this **agreement**

DETAILS OF CHANGES MADE TO THE PROVISIONS OF JBCC STANDARD DOCUMENTATION AND EXPRESS AMENDMENTS TO THE PROVISIONS OF THE JBCC PRINCIPAL BUILDING AGREEMENT AND CONTRACT DATA – May 2018 Edition 6.2

In this regard, the Standard JBCC **Principal Building Agreement** and **Contract Data** 2018 is amended by the numbered clauses set out below, as follows:

- (i) where the Standard JBCC **Principal Building Agreement** and **Contract Data** 2018 contains no provision with the corresponding clause number, the clause set out herein is inserted into the contract; and
- (ii) where the Standard JBCC **Principal Building Agreement** and **Contract Data** 2018 contains a provision with the corresponding clause number, the same is deleted in its entirety and replaced with the provision having such clause number, as set out herein.

Save as amended in terms of this document, the provisions of the Standard **Principal Building Agreement** and **Contract Data** 2018 shall remain unchanged.

1.0 DEFINITIONS and INTERPRETATION
1.1 Definitions
<p>CONTRACT AGREEMENT: The document that formalises the legal process of offer and acceptance and gives effect to binding contract.</p> <p>CONTRACT DATE: The date on which the contract agreement was concluded and a valid contract came into existence on the signature of the last party. The phrase "acceptance of the contractor's offer" as used in the agreement, will have a similar meaning.</p> <p>CONTRACT PERIOD: The period commencing on the intended date [CD] of possession of the site by the contractor and ending on the date for practical completion.</p>

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

CONSTRUCTION PERIOD: The period commencing on the date of possession of the **site** by the **contractor** and ending on the date of **practical completion**.

DATE FOR PRACTICAL COMPLETION: The contractual completion date or dates stated in the **contract data** or revision thereof [23.0] on or before which the **contractor** agrees to bring the **works** or **sections** thereof to **practical completion**. The **contractor** will be liable for the determined **penalty** [24.0] in failure to achieve **practical completion** on or before such date. Same will include references to "date for **practical completion**" where the "date for" is not bold in the standard **JBCC** text.

DATE OF PRACTICAL COMPLETION: The construction completion date or dates, which is initially the intended or planned date or dates to bring the **works** or **sections** thereof to **practical completion** and subsequently the actual or deemed date or dates on which the **contractor** achieved **practical completion** as stated in a **certificate of practical completion**. Same will include references to "date of **practical completion**" where the "date of" is not bold in the standard **JBCC** text.

DIRECT CONTRACTOR: An entity appointed under separate **agreement** by the **employer** to do work on **site**, including its subcontractors, prior to **practical completion**.

INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing to the State, and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the State.

LATENT DEFECT: A **defect** that a reasonable inspection of the **works** by the **principal agent** and/or **agents**, for the purpose of issuing a **final completion certificate**, would not have revealed.

NOTICE: A written communication, excluding social media, issued by either **party**, the **principal agent** and/or **agents** to the other **party** or any **agent** to or in relation to, *inter alia*, record an event and/or request for outstanding **construction information** and/or where suspension and/or resumption of the **works** and/or termination of this **agreement** and/or any dispute resolution process and/or intention to claim. Such notice shall however be issued on separate cover and referring to the specific clause to which it pertains.

PROGRAMME: A diagrammatic representation of the planned execution of units of work or activities indicating the dates for commencement of the activities, the **date of practical completion** and the planned **date of practical completion** prepared and maintained by the **contractor**. The **programme** shall indicate the sequencing, timing and resources for carrying out the **works**. It shall also *inter alia*, include the dates for access and possession of specific parts of the **site**, approvals needed, inspections, tests and all other outstanding **construction information**. All activities shall logically be linked and showing the earliest and latest start and finish dates for each activity, the float (if any) and the critical path.

1.2 Interpretation

1.2.1 In the **contract documents**, unless inconsistent with the context, the following words but not limited to accept, agree, allow, appoint, approve, authorise, certify, decide, delegate, demand, designate, dispute, grant, inform, instruct, issue, list, **notice**, notify, object, record, reduce, refuse, request, state and their derivatives require such acts to be in writing. Oral communications shall be of no force or effect

1.2.4 Reference to a clause number written as [54.3.2] means that specific clause; [54.3.2-4] means the sub-clauses 2 to 4 inclusively; [54.3.2 & 4] means the sub-clauses 2 and 4 only. References to a clause number written as [NSSA 54.3.2] means a clause in terms of the **n/s subcontract agreement**

2.0 LAW, REGULATIONS AND NOTICES

2.5 The contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Envelope A: Technical Proposal: Volume 1 of 2 Part C3.3 for a copy of OH&S – SPEC – 001 Rev 4 dated November 2023 which covers the relevant specification and baseline risk assessment, 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 against this item for compliance with the Act and the Regulations and the provisions of the aforementioned health and safety specification.

2.6 The Construction Environmental Management Plan (CEMP-001) Rev 15 dated November 2023, incorporates specifications derived from recommendations in the Strategic Environmental Assessment (SEA), ELIDZ Rezoning Environmental Impact Assessment (EIA) and comments Report. Department of Economic Affairs, Environment and Tourism's Conditions of Approval for the rezoning EIA, together with specifications for good "environmental practice" for construction work. The purpose of the CEMP is to translate the recommendations of the SEA and the Rezoning EIA into a contractual environmental management plan which will be strictly applied during the construction of the works. A copy of the CEMP is attached (refer to Envelope A: Technical Proposal: Volume 1 of 2 Part C3.4 for a copy of the relevant specification) and tenderers are to familiarize themselves with the provisions contained therein

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	and allow for compliance with the same.
3.0	OFFER AND ACCEPTANCE
3.1	The objective of this agreement is the execution of and payment for the works
3.3	This agreement shall come into force on the contract date
4.0	ASSIGNMENT AND CESSION
4.1	Neither party shall assign or cede rights or obligations under this agreement without the prior written consent of the other party , which consent shall not be unreasonably withheld. Any such assignment or cession shall be invalid and of no effect until the other party's written consent
5.0	CONTRACT DOCUMENTS
5.3	Persons authorised to act on behalf of the parties and/or agents appointed by the employer shall be identified in the contract agreement . Such authorised person may be changed by notice to the other party
5.4	The priced document shall not be used as a specification of materials and goods or methods nor should same define the extent of the works executed by the contractor . The contractor should not use the priced document to order any materials and goods or to programme the works
5.7	The contractor shall not add to, vary or alter any terms of any n/s subcontract agreement with its subcontractors without the written consent of the principal agent
6.0	EMPLOYER'S AGENTS
6.7	On achievement of practical completion, the contractor is to hand over manuals etc. related to the works as listed: Electrical Installation, Sprinkler Installation, Fire Detection Installation, Air-conditioning Equipment Installation and related Building Trades.
7.0	DESIGN RESPONSIBILITY
7.2	Any design responsibility undertaken by a subcontractor shall not devolve on the contractor . All contractual or other rights the contractor has against such subcontractor arising from any design responsibility undertaken shall be ceded to the employer .
INSURANCE AND SECURITY	
8.0	WORKS RISK
8.4	Notwithstanding [8.3] the limit of the contractor's liability [8.2] shall not exceed the contract works insurance [10.1.1] [CD]. Where the contract value exceeds the contract sum by more than ten per cent (10%) or the percentage stated [CD] the insurance provisions shall be adjusted at the employer's expense. The party responsible for effecting insurance shall provide written proof of such adjustment [10.0]
9.0	INDEMNITIES
9.3	Where events or circumstances occur both [9.1] and [9.2], causing claims or proceedings for damages, expense and/or loss (including legal fees and expenses) in respect of or arising from the events or circumstances, the events [9.1] will supersede the events [9.2] and the contractor's indemnity will prevail over the employer's indemnity.
11.0	SECURITY
11.1	Provide to the employer a guarantee for construction within fifteen (15) working days of the contract date and choose:
	<p>The expiry date for the security to be provided in terms of clause 11.1.1 and 11.1.2 shall be ninety (90) calendar days after the date for practical completion for the work as a whole.</p> <p>Should the terms of the construction guarantee have an expiry date, add the following clause after clause 5.2 on the JBCC Construction Guarantee form:</p> <p>5.3. The guarantor has failed to extend the guarantee when requested to do so by the Employer if the certificate of final completion in respect of the variable construction guarantee and certificate of practical completion in respect of the fixed construction guarantee under the contract has not been issued by the date, 30 calendar days prior to the expiry date of the construction guarantee, and that the construction guarantee is called up in terms of clause 5.0</p>
11.4	Where the contractor fails to provide [11.1] or fails to maintain and/or replace [11.2.1] the security the employer may:
11.4.1	Hand over the site to the contractor where failure [11.1] or continue with the agreement where failure [11.2.1] and withhold payments certified in interim payment certificates to the contractor until the amounts withheld is equal to ten per cent (10%) of the contract value . The amount withheld shall be reduced at practical completion [19.0] to two and a half per cent (2.5%) of the contract value and to zero per cent (0%) in the final payment certificate [25.6]
11.5	The employer shall not provide any guarantee for payment
11.5.1	No Clause

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

11.5.2	No Clause
11.6	No Clause
11.7	No Clause
11.10	The contractor shall waive his lien or right of continuing possession of the works within fifteen (15) working days of the contract date
EXECUTION	
12.0 DUTIES OF THE PARTIES	
12.1.5	Give possession of the site to the contractor five (5) working days after the contract date or on the intended date [CD] whichever is the later
12.1.12	Through the principal agent and/or agents provide adequate outstanding construction information timeously to the contractor in accordance with a schedule of outstanding construction information [12.2.11] based on an updated programme [12.2.10] submitted by the contractor and approved by the principal agent
12.2.6	Prepare and submit to the principal agent within fifteen (15) working days of the contract date a programme for the works in sufficient detail to enable the principal agent to monitor the progress of the works
12.2.10	Regularly, but at least monthly, update the programme to illustrate progress of the works , and revise the programme where the principal agent has revised the date for practical completion
12.2.11	Regularly, but at least monthly, submit to the principal agent a progress report, a schedule of outstanding construction information and a schedule of subcontractor appointments to avoid delays to the works
12.2.19	Prior to achievement of practical completion hand over to the principal agent all information for the preparation of 'as built' documentation and applicable statutory/regulatory approval certificates all operating and instruction manuals, product guarantees, warranties, indemnities and the like [19.1.1]
12.2.22	Within fifteen (15) working days of the contract date submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)
12.2.23	The contractor will, throughout the entire contract period be responsible for the proper and adequate protection of all workers and visitors on the site from injury and damage resulting from the works and for the proper security of the site at all times. Furthermore, the contractor must allow for all necessary temporary hoardings, hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways, walkways, overhead protection against falling objects and materials, security fences, etc. for the enclosure of the works and elements thereof for the protection of the public and others as required by prevailing BCMM bylaws, the Construction Regulations 2014 issued in terms of Occupational Health and Safety Act 1993, any other Laws and Regulations and/or demanded by his own site requirements. Allowance must furthermore be made for periodic adjustment of any enclosure or protection and for their eventual removal
12.2.24	The office accommodation for meetings is to be adequately sized and equipped with a sound working table and chairs to accommodate at least thirty (30) people for site meetings. The room is to be well vented with air-conditioning and fitted with two large white boards and pin boards with markers and erasers. Two plug points to be provided within the room
12.2.25	The contractor shall re-instate/ rehabilitate the area used for site establishment (contractors yard area) as set out in Clause PS 6 of the CEMP Rev 15 dated November 2023 included in Part C3.4 in Envelope A: Volume 1 of 2 of these tender documents
13.0 SETTING OUT	
13.2.5	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments.
16.0 DIRECT CONTRACTORS	
16.1	The contractor shall:
16.1.1	In accordance with a contract instruction [17.1.16] permit direct contractor(s) to execute and/or install work on the site. Such access to the site or works shall not constitute deemed achievement of practical completion , possession or occupation by the employer [19.6]
17.0 CONTRACT INSTRUCTIONS AND STEP IN RIGHT	
17.1	The principal agent shall issue contract instructions to the contractor regarding any matter as authorized in terms of this agreement including but not limited to the following;
17.1.21	Changing the sequence of the works
17.1.22	Accelerate the rate of progress of the works or any part thereof, where same has fallen behind programme . The contractor shall thereupon subject to the approval of the principal agent , take such

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

	steps as are necessary to expedite progress in order to achieve practical completion on or before the date for practical completion . The principal agent may instruct the contractor to submit an updated programme to accommodate the steps agreed to meet the date for practical completion . The contractor will not be entitled to any compensation whatsoever for complying with such contract instruction .
17.3	Should the contractor fail to proceed with a contract instruction with due diligence, the principal agent may give notice to the contractor to proceed within five (5) working days of receipt of such notice . Where the contractor remains in default, the employer may engage others or use its own resources to carry out such contract instruction . The employer may recover expense and/or loss incurred [27.2.3]
17.6	In addition to, and without limiting any of the employers' other rights in terms of this agreement , if the contractor fails to complete or otherwise perform the works or any part thereof in accordance with the contract documents , including but not limiting to;
17.6.1	fails to proceed in accordance with the programme ; or
17.6.2	fails to carry out or perform any part of the works in accordance with the contract documents and without defects ; and fails to take satisfactory actions, acceptable to the principal agent to commence correction of such default with due diligence, regularity, expedition, skill and appropriate resources within five (5) working days after receipt of a notice from principal agent , in which case the principal agent may, without prejudice to any other remedy or rights the employer may have, omit part of the works and may employ other parties to complete such parts of the works or complete it by using the employer's own resources. Any such work shall be performed at the contractor's risk and expense. The employer shall have the right to take possession of any uncompleted part of the works at the contractor's premises and use all drawings, technical information related to the works, materials and goods, construction equipment and other property provided or used by the contractor and use it as deems fit in order to complete the works
17.7	The employer may recover expenses and/or loss [27.2.3] resulting from such appointment or employment
COMPLETION	
19.0 PRACTICAL COMPLETION	
19.1.1	Inspect the works at appropriate intervals to give the contractor interpretations and direction on the standard of work, the state of completion of the works and the documentation to be prepared and submitted [12.2.19] as required criteria of the contractor to achieve practical completion [CD]
19.2.1	Inspect the works in advance of the anticipated date of practical completion to confirm that the standard of work required and the state of completion of the works has been achieved and documentation [12.2.19] has been provided for practical completion to be certified
19.2.2	Give timeous notice to the principal agent of the anticipated date of practical completion of the works , in order for the principal agent to inspect the works within the period stated in [19.3]
19.3.2	An updated list for practical completion to the contractor , limited to items on the list for practical completion that have not been attended to satisfactorily to be rectified, work to be completed to achieve practical completion and defects that manifested after the list for practical completion has been submitted. The contractor shall repeat the procedure until all items on the list for practical completion have been dealt with satisfactorily before the certificate of practical completion is issued by the principal agent
	or...
19.3.3	A certificate of practical completion to the contractor with a copy to the employer stating the date on which practical completion of the works , or of a section , was achieved. The certificate of practical completion , unless otherwise indicated in an approved programme , shall not be issued before the date for practical completion
19.4	Should the principal agent not issue a list for practical completion [19.3.1] after the contractor's notice [19.2.2] and the inspection period [19.1.3] or the updated list [19.3.2] within five (5) working days after the contractor's notice requesting a follow up inspection, the contractor shall give a further notice to the employer and the principal agent referring specifically to the previous notice . Should the principal agent not issue such list within five (5) working days of receipt of such further notice , practical completion shall be deemed to have been achieved on the anticipated date of practical completion as notified in the previous notice referred to and the principal agent shall issue the certificate of practical completion forthwith
19.5	On issue of the certificate of practical completion , the employer shall be entitled to possession of the works and the site
19.6	Where the employer takes possession of the whole or a portion of the works by agreement the

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

	agreement will be amended to provide for the works to be completed in sections [20.0] and to include all the necessary contractual implications, <i>inter alia</i> , the definition of each section , the date for practical completion of each section and the penalty applicable for each section .
19.8	Where the works or a part thereof includes mechanical and/or electrical systems that are put to use for the convenience of the employer with the permission of the contractor , the guarantee period for such systems shall commence on the date of practical completion [19.0]. The aforesaid actions shall not constitute the taking of possession [19.6; 8.1] and the risk and responsibility shall accordingly not pass to the employer .
23.0	REVISION OF THE DATE FOR PRACTICAL COMPLETION
23.1.1	Adverse effect of weather conditions
23.2.12	No Clause
23.3	Further circumstances, not included [23.1-2] for which the contractor may be entitled to a revision of the date for practical completion are delays to practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for. The contractor is entitled to an adjustment to the contract value [26.9.4] where such delay is caused by the default or prevention act of the employer and/or agents
23.4	Should a listed event or circumstance occur [23.1-3] which could cause a delay to the date of practical completion , the contractor shall:
23.4.1	Give the principal agent reasonable and timeous notice of such event or circumstance and take reasonable steps to avoid or reduce such delay
23.4.2	Within ten (10) working days of becoming aware, or ought reasonably to have become aware of such event or circumstances, give notice to the principal agent of the intention to submit a claim for a revision to the date for practical completion , failing which the contractor shall forfeit such claim
23.5	The contractor shall submit a claim for the revision of the date for practical completion to the principal agent within twenty (20) working days , or such extended period the principal agent may allow, from the end of the event or circumstance, failing which the contractor shall forfeit such claim
23.6	Where the contractor requests a revision of the date for practical completion the claim shall in respect of each event or circumstance separately state:
23.6.1	Particulars of such event or circumstance and the relevant clause [23.1-3] on which the contractor relies
23.6.2	The cause and effect of the delaying event or circumstance on the planned date of practical completion , where appropriate, illustrated by the impact and/or a change to the critical path on the updated and approved programme
23.6.3	The extension period claimed in working days , the calculation thereof and the revised date for practical completion based on the extension period claimed
25.0	PAYMENT
25.10	The employer shall pay to the contractor the amount certified in an issued payment certificate within thirty (30) calendar days of the date for issue of the payment certificate [CD] including interest
25.11	The contractor shall pay the employer the amount certified in an issued payment certificate within thirty (30) calendar days of the date for issue of the payment certificate [CD] including interest
25.14.2	No Clause
25.14.3	No Clause
26.0	ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT
26.2	Adjustments to the contract value resulting from a contract instruction for additional work [17.1.2] (hereinafter referred to as a " variation order ") shall be determined as follows:
26.2.5	The contractor shall within five (5) working days after receiving a contract instruction which he contends to be a variation order , confirms, to the principal agent that it is indeed a variation order , and such confirmation is not contradicted, by the principal agent to the contractor within five (5) working days of receipt thereof, it shall be deemed to be a variation order [26.2]. If the contractor fails to confirm such contract instruction within the five (5) working days period, such contract instruction shall not be a variation order and the contract value shall not be adjusted [26.2]
26.5	The contractor shall give notice to the principal agent within ten (10) working days of becoming aware, or ought reasonably to have become aware of any event or circumstances which may cause expense and/or loss due to no fault of the contractor for which provision was not required in the contract sum , failing which such claim shall be forfeited. Such events or circumstances are the following:
26.5.1	The issue of a contract instruction
26.5.2	Failure to issue or the late issue of a contract on instruction following three timeous requests from the contractor [15.6; 12.1.12]
26.5.4	Expense and loss caused by a direct contractor [22.4]

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

26.5.5	Default by the employer or his agents
26.5.6	Suspension or termination of a subcontract due to default by the employer or his agents
26.5.7	Default or insolvency of a nominated subcontractor
26.5.8	Suspension of the works [28.0]
26.6	Following notice [26.5], the contractor shall submit a detailed and substantiated claim for the adjustment of the contract value to the principal agent within twenty (20) working days , or such additional period as the principal agent may allow, from such notice , failing which such claim shall be forfeited
27.0	RECOVERY OF EXPENSE AND/OR LOSS
27.2.3	Work executed by others or the employer's own resources due to the contractor's default [17.3; 17.6]
27.2.10	Adjustment of the n/s subcontract value [NSSA 26.0] due to the subcontractor as a result of a default by the contractor
SUSPENSION AND TERMINATION	
29.0	TERMINATION
	Termination by the employer
29.1	The employer shall be entitled to terminate this agreement where the contractor has failed to:
29.1.1	Provide and or maintain a guarantee for construction within fifteen (15) working days [11.1; 11.1.5; 12.2.3] of the contract date
29.1.2	Commence and proceed with the works [12.2.7]
29.1.4	Make payment in full of an amount certified in an interim payment certificate by the due date [25.11] [CD]

C TENDER CLOSING

Tender closing date	25 July 2025	Time	12h00
Tender submission address	All tender documents are to be submitted online at https://tenderportal.elidz.co.za before the closing date and time. Only PDF documents must be uploaded with a maximum size limit per single document of 30MB.		
Tender may be submitted by e-mail	No	E-mail	NA

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

D CONTRACTOR'S SELECTIONS

D 1.0 Securities [11.0]

Guarantee for construction: Select Option A or B

Option A	Guarantee for construction (variable) by contractor [11.1.1]	
Option B	Guarantee for construction (fixed) by contractor [11.1.2]	
Guarantee for payment by employer [11.5.1; 11.10]	Amount	NA
Advance payment, subject to a guarantee for advance payment [11.2.2; 11.3]	Amount	NA

D 2.0 Contractor's annual holiday periods during the construction period

Year 1 contractor annual holiday period	start date	16 December 2025	end date	09 January 2026
Year 2 contractor annual holiday period	start date		end date	
Year 3 contractor annual holiday period	start date		end date	

D 3.0 Payment of preliminaries [25.0]

Contractor's selection

Select Option A or B

☐

Where the **contractor** does not select an option, Option A shall apply

Where the total amount of **preliminaries** is not identified (in a lump sum contract) it shall be taken as 7.5% (seven and a half percent) of the **contract sum**, excluding contingency sums and any provision for contract price adjustment (cost fluctuation)

Option A	The preliminaries shall be paid in accordance with an amount prorated to the value of the works executed in the same ratio as the amount of the preliminaries to the contract sum , which contract sum shall exclude the amount of preliminaries . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio
Option B	The preliminaries shall be paid in accordance with an amount agreed by the principal agent and the contractor in terms of the priced document to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time- related charge shall be assessed by the principal agent and adjusted from time to time as may be necessary to take into account the rate of progress of the works

D 4.0 Adjustment of preliminaries [26.9.4]

Select Option A or B

☐

Where the **contractor** does not select an option, Option A shall apply

The amount of **preliminaries** shall be adjusted to take account of the effect of changes in time and/or value on **preliminaries**. Such adjustment shall be based on the particulars provided by the **contractor** for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of **preliminaries** and shall apply notwithstanding the employment of resources by the **contractor** in the execution of the **works**

For the adjustment of **preliminaries** both the **contract sum** and the **contract value** shall exclude the amount of the **preliminaries**, contingency sum(s) and any provision for the contract price adjustment (cost fluctuations)

Where the total amount of **preliminaries** is not identified (in a lump sum contract) it shall be taken as 7.5% (seven and a half percent) of the **contract sum**, excluding contingency sums, and any provision for contract price adjustment (cost fluctuation)

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

Option A	<p>The preliminaries shall be adjusted in accordance with the allocation of preliminaries amounts provided by the contractor within fifteen (15) working days of the date of acceptance of the tender as follows:</p> <ul style="list-style-type: none"> - An amount which shall not be varied; - An amount varied in proportion to the contract value as compared to the contract sum; - An amount varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value as compared to the number of calendar days in the initial contract period <p>Where the above-mentioned information is not provided the following allocation of preliminaries amounts shall apply:</p> <ul style="list-style-type: none"> - Ten percent (10%) shall not be varied; - Fifteen percent (15%) shall be varied in proportion to the contract value as compared to the contract sum; - Seventy-five percent (75%) shall be varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value as compared to the number of calendar days in the initial contract period <p>Where completion in sections are required the contractor shall provide an apportionment of preliminaries per section. Should the contractor fail to provide the apportionment of preliminaries per section the categorized amounts shall be prorated to the cost of each section within the contract sum as determined by the principal agent</p>
Option B	<p>The preliminaries shall be adjusted in accordance with a detailed breakdown of preliminaries amounts for the works or of a section to be provided by the contractor within fifteen (15) working days of possession of the site. Such breakdown shall inter alia include administrative and supervisory staff charges and charges for the use of construction equipment, all in terms of the programme</p> <p>The adjustment of preliminaries shall be based on the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value as compared to the number of calendar days in the initial construction period taking into account the resources planned for the period of construction during which the delay occurred (not for the period added to the initial or extended date for practical completion)</p> <p>Where the contractor does not provide the detailed breakdown of preliminaries within the period stated, Option A shall apply</p>

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

C1.2 JBCC FORM OF GUARANTEE



Guarantee for Construction

For use with the JBCC® Principal Building Agreement

edition /date

GUARANTOR DETAILS

Guarantor:	<input type="text"/>		
Physical address:	<input type="text"/>		
Guarantor's signatory 1:	<input type="text"/>	Capacity	<input type="text"/>
Guarantor's signatory 2:	<input type="text"/>	Capacity	<input type="text"/>
Employer:	<input type="text"/>		
Contractor:	<input type="text"/>		
Principal Agent:	<input type="text"/>		
Works:	<input type="text"/>		
Site:	<input type="text"/>		
Name of Signatory:	<input type="text"/>		
Contract Sum:	Accepted amount inclusive of tax	Currency	<input type="text"/> <input type="text"/>
... amount in words:	<input type="text"/>		
Guaranteed Sum:	The maximum aggregate amount	Currency	<input type="text"/> <input type="text"/>
... amount in words:	<input type="text"/>		
Guarantee for Construction	(insert variable or fixed)	<input type="text"/>	Expiry date <input type="text"/>

AGREEMENT DETAILS

Sections	Total number / not applicable	<input type="text"/>	Last section	<input type="text"/>
Principal Agent Issues	'JBCC® format Interim Payment Certificates, the Final Payment Certificate, the Certificate of Practical Completion and the Certificate of Final Completion			

1.0 GUARANTEE for CONSTRUCTION (Variable)

1.1 Where a Guarantee for Construction (Variable) in terms of the Agreement has been selected this clause 1.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:-

GUARANTOR'S LIABILITY

PERIOD OF LIABILITY

1.1.1 Maximum Guaranteed Sum (not exceeding 10.0% of the contract sum) in the amount of:

Amount in words:

1.1.2 Reducing to the Guaranteed Sum (not exceeding 6.0 % of the contract sum) in the amount of:

Amount in words:

1.1.3 Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:

From and including the date of issue of this Guarantee for Construction and up to and including the date of issue of the interim payment certificate certifying in excess of 50% of the contract sum

From and including the day after the date of the aforesaid interim payment certificate and up to and including the date of issue of the only Certificate of Practical Completion or last Certificate of Practical Completion where there are sections

From and including the day after the date of the applicable Certificate of Practical Completion and up to and including the date of issue of

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

	the only Certificate of Final Completion or the last Certificate of Final Completion where there are sections
Amount in words:	
1.1.4 Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract sum) in the amount of:	From and including the day after the date of the applicable Certificate of Final Completion and up to and including the date of issue of the Final Payment Certificate where payment is due to the Contractor, whereafter this Guarantee for Construction shall expire. Where the Final Payment Certificate reflects payment due to the Employer this Guarantee for Construction shall expire upon payment of the full amount certified
Amount in words:	

1.2 The Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the Security

2.0 GUARANTEE for CONSTRUCTION (Fixed)

2.1 Where a Guarantee for Construction (Fixed) in terms of the Agreement has been selected this clause 2.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:-

GUARANTOR'S LIABILITY

Maximum Guaranteed Sum (not exceeding 5.0% of the contract sum) in the amount of:

Amount in words:

PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of the only Certificate of Practical Completion or the last Certificate of Practical Completion where there are sections, whereafter this Guarantee for Construction shall expire

3.0 The Guarantor acknowledges that:-

- 3.1 Any reference in this Guarantee for Construction to the Agreement is made for the purpose of convenience and shall not be construed as any intention to create an accessory obligation or any intention to create a suretyship
- 3.2 Its obligation under this Guarantee for Construction is restricted to the payment of money
- 3.3 Reference to a Recovery Statement or an Interim or Final Payment Certificate, or a Certificate(s) of Practical or Final Completion shall mean such certificate issued by the Principal Agent
- 4.0 Subject to the Guarantor's maximum liability referred to in clauses 1.0 or 2.0, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:-
 - 4.1 A copy of a first written demand notice issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an Interim or Final Payment Certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2
 - 4.2 A written demand notice issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the issue of the first written demand notice in terms of 4.1 and that the sum certified has not been paid to date. The Employer herewith calls up this Guarantee for Construction and demands payment of the sum certified from the Guarantor
 - 4.3 A copy of the applicable payment certificate which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0
- 5.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand notice from the Employer to the Guarantor at the Guarantor's physical address calling up this Guarantee for Construction stating that:-
 - 5.1 The Agreement has been terminated due to the Contractor's default and that the Guarantee for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the notice of termination; or
 - 5.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the court order

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

- 6.0 The aggregate amount of payment to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall within one hundred and eighty (180) calendar days of receipt of payment submit an expense account to the Guarantor showing how all monies received in terms of the Guarantee for Construction have been expended, or will be expended, and shall refund to the Guarantor any surplus amount. All monies refunded to the Guarantor in terms of this Guarantee for Construction shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date of payment by the Guarantor to the Employer until the date of refund
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand notice to the Guarantor
- 9.0 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim his release from this Guarantee for Construction on account of any conduct alleged to be prejudicial to the Guarantor
- 10.0 The Guarantor chooses the physical address-stated above for all transactions in relation to this security
- 11.0 This Guarantee for Construction is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or on payment in full of the Guaranteed Sum or on the Guarantee expiry date, whichever is the earlier, where after no claims will be considered by the Guarantor. The original Guarantee for Construction form shall be returned to the Guarantor after it has expired
- 12.0 This Guarantee for Construction, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a court order
- 13.0 Where this Guarantee for Construction is issued in the Republic of South Africa the Guarantor hereby consents to the jurisdiction of a court in the area where the project is located

Signed at

Date

Guarantor's Signatory 1

.....

Guarantor's Signatory 2

.....

Witness

.....

Witness

.....

Guarantor's seal or stamp

JBCC® Guarantee for Construction PBA 6.2 © Aug 2019

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

PART C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2.1 Pricing Instructions

- 1 The Provisional Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work as amended published and issued by the Association of South African Quantity Surveyors (Seventh Edition, 2015).
- 2 The agreement is based on the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 6.2, May 2018. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Provisional Bills of Quantities are recited.
- 3 It will be assumed that prices included in the Provisional Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 4 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 5 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
- 6 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Bill No.1 (Preliminaries) of the Provisional Bills of Quantities.
- 7 The Provisional Bills of Quantities are not intended for the ordering of materials. Any ordering of materials, based on the Provisional Bills of Quantities, is at the Contractor's risk.

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

C2.2 PROVISIONAL BILLS OF QUANTITIES

(TO BE COMPLETED IN BLACK INK AND RETURNED)

Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

Item No		Quantity	Rate	Amount
	<p><u>Clause 1.0 is amended by the following:</u></p> <p><u>1. The definition of a direct contractor is amended to read : A party appointed directly by the employer to do specialist work on site irrespective of any date of completion.</u></p> <p><u>2. The definition of practical completion is amplified by the addition of the following after the words "purposes intended": and without derogating from the generality of the foregoing, the works and sections thereof shall not be considered to be substantially complete or be capable of being effectively used for the purposes intended, and shall accordingly not be considered to have reached a state of practical completion, if any of the specific requirements listed in Clause 19.3 as amended, have not been met</u></p> <p><u>Clause 1.0 is amended by the addition of the following:</u></p> <p><u>1.9. The contract documents shall be taken to be mutually explanatory of one another but in the event of ambiguity, discrepancy, divergence or inconsistency in or between them, the JBCC Principal Building Agreement as amended by Section A of these Bills of Quantities shall prevail over all other contract documents. As between the JBCC Principal Building Agreement and Section A of these bills of quantities, Section A of these bills of quantities shall prevail</u></p>			
1	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A2 LAW, REGULATIONS AND NOTICES</u></p> <p><u>Clause 2.0</u></p> <p><u>Clause 2.0 is amended by the addition of the following:</u></p> <p><u>2.4. The contractor shall take all reasonable precautions to maintain the health and safety of persons in and about the execution of the works. Without limitation the contractor hereby:</u></p>	Item		
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>2.4.1 accepts that the employer will appoint him as the Principal Contractor (as defined and provided for under the Construction Regulations 2003 (as amended) promulgated under the Occupational Health & Safety Act 85 of 1993 (as amended), (the Construction Regulations) for the site;</u></p> <p><u>2.4.2 acknowledges and confirms that the contract sum includes a sufficient amount for proper compliance with the employer's Health and Safety Specification, the Construction Regulations, all applicable health & safety laws and regulations and the health and safety rules, guidelines and procedures provided for in this agreement and generally for the proper maintenance of health and safety in and about the execution of works; and</u></p> <p><u>2.4.3 undertakes in and about the execution of the works, to comply with the Construction Regulations and with all applicable health and safety laws and regulations and rules and guidelines and procedures otherwise provided for under the agreement and shall ensure that all subcontractors, employees and others under the contractor's direction and control, likewise observe and comply with the foregoing</u></p>			
1	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A3 OFFER AND ACCEPTANCE</u></p> <p><u>Clause 3.0</u></p>	Item		
2	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A4 CESSION AND ASSIGNMENT</u></p> <p><u>Clause 4.0</u></p>	Item		
3	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A5 DOCUMENTS</u></p>	Item		
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>10.5 Damage to the Works</u></p> <p><u>(a) Without in any way limiting the contractors obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary.</u></p> <p><u>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works.</u></p> <p><u>(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6</u></p> <p><u>(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof.</u></p> <p><u>10.6 Injury to Persons or loss of or damage to Properties</u></p> <p><u>(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable.</u></p>			
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable.</u></p> <p><u>(c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor.</u></p> <p><u>(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion.</u></p> <p><u>(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequately insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed.</u></p> <p><u>(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works.</u></p> <p><u>10.7 High risk insurance</u></p> <p><u>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</u></p>			
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>10.7.1 Damage to the works</u></p> <p><u>The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary.</u></p> <p><u>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs.</u></p> <p><u>10.7.2 Injury to persons or loss of or damage to property</u></p> <p><u>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.</u></p> <p><u>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract.</u></p> <p><u>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so.</u></p>			
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole .</u></p>			
1	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A11 SECURITIES</u></p> <p><u>Clause 11.0</u></p>	Item		
2	<p>Fixed: (fixed) Value related:_____ Time related:_____</p> <p><u>EXECUTION</u></p> <p><u>A12 OBLIGATIONS OF THE PARTIES</u></p> <p><u>Clause 12.0</u></p>	Item		
3	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A13 SETTING OUT</u></p> <p><u>Clause 13.0</u></p> <p><u>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments.</u></p>	Item		
4	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A14 NOMINATED SUBCONTRACTORS</u></p>	Item		
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>Clause 25.0 Interim payment</u></p> <p><u>Clause 25.2 is amended by the addition of the following to the end thereof:</u></p> <p><u>Such information should be issued by the contractor not later than the 25th day of the month</u></p> <p><u>Clause 25.6 shall be deleted and replaced with the following:</u></p> <p><u>Notwithstanding this or any other clause, materials and goods stored off site shall not be included in the amount authorized for payment</u></p>			
1	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A26 ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT</u></p> <p><u>Clause 26.0</u></p> <p><u>The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 23.1.3)</u></p>	Item		
2	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A27 RECOVERY OF EXPENSE AND/ OR LOSS</u></p> <p><u>Clause 27.0</u></p>	Item		
3	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>SUSPENSION AND TERMINATION</u></p> <p><u>A28 SUSPENSION BY THE CONTRACTOR</u></p>	Item		
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<u>Clause 11.5 - Environmental disturbance</u>			
1	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>Clause 11.6 - Works cleaning and clearing</u>			
	<u>In addition to his general obligations in terms of this clause, the contractor shall ensure that the tarred roads, pavements, etc leading to and around the site as well as all access areas within the site are to be cleaned on a regular basis. Any damage that may occur to this tarred roadway is to be made good by the contractor at his own expense. In no way shall the work on the site be the cause of any hindrance or inconvenience to pedestrians or traffic.</u>			
2	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>Clause 11.7 - Vermin</u>			
3	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>Clause 11.8 - Overhand work</u>			
4	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B12. SCHEDULE OF VARIABLES</u>			
	<u>B12.1 Pre-tender information</u>			
5	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>12.1 PRE TENDER INFORMATION</u>			
	<u>12.1.1 Provisional Bills of Quantities</u>			
	<u>[2.2] The quantities are provisional: No</u>			
	<u>12.1.2 Availability of construction documentation</u>			
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

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Bill No. 1
PRELIMINARIES

Item No		Quantity	Rate	Amount
	<p>[6.2} Specific requirements: Yes. See C3 Scope of Works and C4 Site information (Envelope A, Volume 1 of 2). Contractors Yard and areas required by the Contractor for storage, site establishment, Principal Agents office etc are to be temporarily fenced off with 1800mm high "Bonnox" fence covered with shade cloth to prevent people entering the works area. Fence to be removed after completion and holes filled in. This temporary fencing has not been measured and the Contractor must price for it in the preliminaries. The contractor must also allow in his price for clearing this site of vegetable matter, shrubs, small trees, etc to make way for his sheds, offices, plant etc. The contractor shall be responsible for keeping such areas in a clean, sanitary and orderly condition. The containers shall be removed by the contractor and the area made good at the completion of the contract.</p> <p><u>12.1.13 Offices</u></p>			
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>[6.4.3] Specific requirements: The contractor shall provide, maintain and remove, on completion, the following accommodation.</u></p> <p>a) <u>Meeting Room</u></p> <p><u>The room is to be adequately sized and equipped with a sound working table and chairs to accommodate at least thirty (30) people for site meetings.</u></p> <p><u>The room is to be well vented and fitted with two large white boards with markers and erasers.</u></p> <p>b) <u>Office For The Clerk Of Works</u></p> <p><u>The room is to be adequately sized and equipped with a sound working table and chairs, shelving, air conditioning, electrical power and lighting and ablutions to accommodate the Clerk Of Works for the full duration of the project</u></p> <p>c) <u>Generally</u></p> <p><u>The access and the areas around the offices and toilets shall be surfaced with clean crushed stone.</u> <u>Furthermore, an adequate level parking area shall be provided also surfaced with clean crushed stone. Both areas shall be well drained, kept free of mud and maintained throughout the contract period.</u></p> <p><u>12.1.14 Main notice board</u></p> <p><u>[6.5] Specific requirements: N/A</u></p> <p><u>12.1.15 Subcontractors' notice board</u></p> <p><u>[6.6] Specific requirements: N/A</u></p> <p><u>12.1.16 Water</u></p> <p><u>[7.2) Option A (by contractor) No, Option B (by employer - free of charge) No, Option C (by employer - metered) Yes</u></p> <p><u>12.1.17 Electricity</u></p>			
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	C9. Contract drawings:			
1	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly understood by the tenderer he shall , before submitting his tender, obtain clarification in writing from the Principal Agent	Item		
	C10. Trade names:			
2	Wherever a trade name for any product has been described in the Bills of Quantities / Lump Sum Document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the Principal Agent being obtained prior to the closing date for submission of tenders. If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for.	Item		
	C11. Imported materials and equipment:			
3	Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer). Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable).	Item		
			R	
Carried to Collection				
Bill No. 1 PRELIMINARIES				

Item No	Quantity	Rate	Amount
1			
<p><u>C12. SMME'S:</u></p> <p>The principal contractor shall comply with all the requirement of mandatory subcontracting of SMMEs for a minimum of 30% of their contract value (Including VAT) as stipulated under the SMME subcontracting requirements. The Principal Contractor shall on a fulltime basis closely mentor, manage and supervise all SMMEs and shall manage, guide, and assist each SMMEs in all aspects of management, execution and completion of his/her subcontract. This shall typically include the on-site productivity planning and management of materials, cost management, contract management, Health and Safety management, quality management, communication management and close-out documentation.</p> <p>Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p><u>C13 OCCUPATIONAL HEALTH AND SAFETY ACT</u></p> <p><u>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</u></p>			
Carried to Collection			R
Bill No. 1 PRELIMINARIES			

Item No		Quantity	Rate	Amount
	<p><u>The Contractors attention is drawn to the Project Health and Safety Specification included in (C3.3 Volume 1 of 2 Envelope A)</u></p> <p><u>Construction Environmental Management Plan (C3.4 Volume 1 of 2 Envelope A)</u></p> <p><u>The Construction Environmental Management Plan (CEMP) incorporates specifications derived from recommendations in the SEA, ELIDZ Rezoning Environmental Impact Assessment (EIA) and comments Report. Department of Economic Affairs, Environment and Tourism's Conditions of Approval for the rezoning EIA, together with specifications for good "environmental practice" for construction work.</u></p> <p><u>The purpose of the CEMP is to translate the recommendations of the SEA and the Rezoning EIA into a contractual environmental management plan which will be strictly applied during the construction of the works.</u></p> <p><u>A copy of the CEMP is attached (See 3.4 in Volume 1 of 2 of this document) and tenderers are to familiarize themselves with the provisions contained therein and allow for compliance with the same.</u></p>			
1	Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Collection		R	
	Bill No. 1 PRELIMINARIES			

Bill No. 1

PRELIMINARIES

COLLECTION

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PRELIMINARIES

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Item No		Quantity	Rate	Amount
1	Column bases	m3	1,462	
	<u>Excavate In Earth Exceeding 2.00m And Not Exceeding 4.00m Deep Including Trimming Sides, Levelling And Ramming Bottoms And Deposit On Site In Spoil Heaps For:</u>			
2	Column bases	m3	555	
3	Excavate back in earth for working space as necessary for the insertion and removal of formwork to dock leveller pit walls including backfilling and compacting to 98% Mod AASHTO density	m2	17	
4	Extra over excavation in earth for working space for excavation in intermediate material	m2	1	
5	Ditto, in hard rock	m2	1	
6	Extra over trench, etc excavation in earth for excavation in intermediate material	m3	240	
7	Ditto, in hard rock	m3	100	
8	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	1,183	
9	Ditto, exceeding 1.50m deep	m2	2,988	
10	Allow for keeping excavations free from water	Item		
11	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	2,326	
	Carried to Collection		R	
	Bill No. 2 FACTORY BUILDING			

Item No		Quantity	Rate	Amount
1	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	760	
2	Earth filling using imported G5 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 98% Mod AASHTO density	m3	760	
3	Ditto, in bulk filling including compacting in layers under external fire escape stairs and landings	m3	30	
4	150mm Thick sub-base course of G5 material supplied by the contractor and compacted under floors, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	2,425	
5	150mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	2,425	
6	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 98% AASHTO density	m2	16,156	
7	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	16,156	
8	Modified AASHTO density test on filling, etc	No	360	
<u>CONCRETE</u>				
<u>Note:</u>				
For convenience test cubes and reinforcement are measured under concrete, formwork and reinforcement hereafter.				
Carried to Collection				R
Bill No. 2 FACTORY BUILDING				

Item No		Quantity	Rate	Amount
	<u>Cement Concrete 15MPa/19mm Stone In:</u>			
1	Blinding under ground beams, bases, etc cast against excavated surfaces	m3	141	
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
2	Footings cast against excavated surfaces	m3	88	
3	Bases cast against excavated surfaces	m3	436	
4	Columns	m3	106	
5	Walls	m3	176	
6	Filling to cavity of hollow wall	m3	2	
	<u>Contraction And Expansion Joints</u>			
7	10mm Closed cell polyethelene pre-formed joint filler between concrete or brick surfaces	m2	60	
8	10mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 10 x 10mm hinged blocking piece between concrete or brick surfaces	m	134	
9	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3 polyurethane sealant	m	134	
	<u>FORMWORK</u>			
	<u>Close Rough Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>			
10	Sides of walls exceeding 3.50m and not exceeding 5.00m high	m2	764	
	Carried to Collection			
	Bill No. 2			
	FACTORY BUILDING			

Item No			Quantity	Rate	Amount
1	Edge, riser, etc not exceeding 300mm high	m	134		
	<u>Close Smooth Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>				
2	Sides of rectangular columns not exceeding 3.50m high	m2	818		
3	Sides of rectangular columns exceeding 3.50 and not exceeding 5.00m high	m2	82		
4	Sides of walls exceeding 3.50m and not exceeding 5.00m high	m2	764		
	<u>MASONRY</u>				
	<u>Note</u>				
	Bricks to have a minimum compressive strength of 7MPa and are to be solid clay bricks, ie no openings.				
	Mortar for brickwork to be Class 1 (28 days strength and 14.5MPa minimum)				
	<u>Brickwork In (Class 1) Cement Mortar In:</u>				
5	280mm Hollow wall formed of two half brick skins including butterfly wire ties	m2	29		
	<u>Sundries</u>				
6	80mm Brick mesh reinforcement in walls	m	182		
	<u>Facings</u>				
	<u>Facings Formed Of Selected Corobrik Pampas Satin FBS Face Bricks Pointed With Ruled Horizontal And Vertical Joints</u>				
7	Extra over brickwork for faced brickwork	m2	5		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	Carried to Collection				
	Bill No. 2				
	FACTORY BUILDING				
				R	

Item No		Quantity	Rate	Amount
	<u>CONCRETE</u>			
	<u>Testing</u>			
1	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	No 350		
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
2	Slabs including beams and inverted beams	m3 2		
3	Stairs including landings, beams and inverted beams	m3 6		
4	Threshold beams	m3 1		
5	Walls	m3 103		
	<u>Reinforced Cement Concrete 30MPa/19mm Stone With Washed Sand And Fibrin Fibre @ 900g/m3, In:</u>			
6	Surface beds cast in panels including temporary formwork	m3 3,231		
7	Dock leveller pit floor	m3 6		
8	Dock leveller pit walls	m3 4		
	<u>Sundries</u>			
9	Average 50mm Thick SikaGrout 212 applied in strict accordance with product specifications under baseplate	m2 12		
10	Finish top of concrete threshold beam smooth to a steel trowel finish	m2 5		
	Carried to Collection		R	
	Bill No. 2 FACTORY BUILDING			

Item No			Quantity	Rate	Amount
1	Ditto, top of 225mm wide concrete wall including forming rounded corner to both edges	m	448		
2	Power floated finish to top of surface bed to FM3 finish including curing, etc	m2	16,156		
3	Extra over power floating for applying Qualidur HP Dry Shake surface hardener applied at a rate of 6kg/m2 including Roc Cure applied at 100g/m2 including any grinding to concrete floors all applied in strict accordance with the manufacturers instructions	m2	16,156		
4	Form toggle joint to edge of concrete surface bed 200mm thick at construction joint (see HSC Consulting Engineers drawing No S04 Rev B)	m	766		
5	3 x 75mm Saw cut joint in top of concrete surface bed reamed to 8 x 35mm	m	6,679		
6	8 x 35mm Saw cut joint in top of concrete construction joint	m	766		
7	Sikaflex Pro-3 with backing cord in filling 8 x 35mm saw cut joint in strict accordance with the manufacturers instructions	m	7,444		
8	Form armoured joint 200 mm high using a diamond dowel system comprising 6mm thick x 115 x 115mm hot dipped galvanised plates at 450mm centres including all necessary formwork, temporary pegs, stays, supports, bond breaking compound, bitumen to one concrete face, etc., and including armouring of top edges using two 10 x 65mm galvanised flat bars with 8mm lugs x 150mm long @ 300mm centres for casting into concrete, top edge bars to be machined and set with an 8mm gap (sealant elsewhere measured) (refer to detail on HSC Consulting drawing NO S04 Rev B)	m	405		
9	Ditto, at threshold (ditto)	m	25		
Carried to Collection					R
Bill No. 2 FACTORY BUILDING					

Item No		Quantity	Rate	Amount
1	Sikaflex Pro-3 with backing cord in filling 8 x 35mm armoured joint in strict accordance with the manufacturers instructions	m	430	
	<u>Contraction And Expansion Joints</u>			
2	10mm Closed cell polyethelene pre-formed joint filler between concrete or brick surfaces	m2	30	
3	10mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 10 x 10mm hinged blocking piece between concrete or brick surfaces	m	66	
4	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3 polyurethane sealant	m	198	
5	20mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 20 x 18mm hinged blocking piece between concrete or brick surfaces	m	656	
6	Remove blocking piece and seal 20 x 18mm cavity with Sikaflex Pro-3 polyurethane sealant	m	656	
7	Two layers of 0.60mm galvanised sheet iron with graphite grease in between in slip joint between concrete and brick surfaces not exceeding 300mm wide	m	41	
	<u>FORMWORK</u>			
	<u>Close Rough Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>			
8	Sides of rectangular columns not exceeding 3.50m high	m2	202	
9	Soffit of slabs not exceeding 3.50m high	m2	8	
10	Sides of dock leveller pit walls	m2	35	
11	Edge, riser, etc not exceeding 300mm high	m	299	
	Carried to Collection			R
	Bill No. 2 FACTORY BUILDING			

Item No			Quantity	Rate	Amount
1	Raking stepped outer edge of stairs 350mm wide extreme	m	10		
	<u>Close Smooth Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>				
2	Sides of walls not exceeding 3.50m high	m2	448		
3	Sides of walls exceeding 3.50m and not exceeding 5.00m high	m2	448		
4	Sides and soffits of threshold beams	m2	9		
5	Edge, riser, etc not exceeding 300mm high	m	31		
	<u>REINFORCEMENT</u>				
	<u>Mild Steel Rod Reinforcement To Structural Concrete Work</u>				
6	8mm Diameter bars	t	10		
7	10mm Diameter bars	t	10		
	<u>High Tensile Rod Reinforcement To Structural Concrete Work</u>				
8	10mm Diameter bars	t	18		
9	12mm Diameter bars	t	18		
10	16mm Diameter bars	t	20		
11	20mm Diameter bars	t	20		
12	25mm Diameter bars	t	16		
	Carried to Collection			R	
	Bill No. 2				
	FACTORY BUILDING				

Item No		Quantity	Rate	Amount
	<u>0.8mm Thick Global Roofing Solutions Klip-Tite'Hulets Aluminium Roof Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Metallic Silver) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturers Instructions:</u>			
1	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps to purlins at approximately 1500mm centres	m2	21,983	
	<u>Sundries</u>			
2	Narrow flute serrated closer including polybutton	m	681	
3	Broad flute serrated closer including polybutton	m	681	
4	Gable flashing 462mm girth	m	304	
5	Headwall flashing 462mm girth	m	681	
	<u>0.8mm Thick Global Roofing Solutions Klip-Tite'Hulets Aluminium Roof Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Azure Blue) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturers Instructions:</u>			
6	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps to purlins at approximately 1500mm centres	m2	2,212	
	<u>Sundries</u>			
7	Narrow flute serrated closer including polybutton	m	681	
Carried to Collection				R
Bill No. 2 FACTORY BUILDING				

Item No			Quantity	Rate	Amount
1	Broad flute serrated closer including polybutton	m	681		
2	Gable flashing 462mm girth	m	40		
	<u>1.2mm Thick Modek "Heat Stop Grey" Polycarbonate sheeting to Nu-Rib Profile , Fixed To Steel Cladding Rails In Single Lengths To Suit High Wind Areas All In Strict Accordance With The Manufacturer's Instructions</u>				
	<u>Note</u>				
	Side cladding fixed with broad flute facing out.				
3	Side cladding including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximately 1500mm centres	m2	422		
	<u>1.2mm Thick Modek "Heat Stop Grey" Polycarbonate sheeting to Klip-Tite Profile , Fixed To Steel Cladding Rails In Single Lengths To Suit High Wind Areas All In Strict Accordance With The Manufacturer's Instructions</u>				
4	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps to purlins at approximately 1500mm centres	m2	948		
	<u>Roof Insulation</u>				
5	100mm "Isover Factorylite" non combustible light weight fibreglass insulation faced on one side with white metalised foil laid taut over purlins at approximately 1.00m centres and fixed concurrent with roof covering including PVC coated galvanised steel straining wires where required all in strict accordance with the manufacturers instructions	m2	24,195		
	<u>Budgetary Allowance For Louvred Ventilation Panels To Be Supplied And Installed By The Roofing And Cladding Specialist</u>				
6	Provide the Budgetary Allowance of R3 500 000-00 (three million five hundred thousand rand) for the supply and installation of louvred ventilation panels by the roofing and cladding specialist	Item			3,500,000.00
	Carried to Collection				R
	Bill No. 2				
	FACTORY BUILDING				

Item No		Quantity	Rate	Amount
	<u>CARPENTRY AND JOINERY</u>			
	<u>Wrot Meranti</u>			
1	44mm Framed batten door size 813 x 2032mm formed of 44 x 108mm styles and top rail, 22 x 108mm middle ledge and braces and 22 x 220mm bottom ledge filled in with 22 x 69mm V-jointed one side boarding and including 1.60mm galvanised sheet iron plate fixed on one face of door	No	8	
	<u>FRAMED FRAMES, ETC INCLUDING BUILDING IN</u>			
	<u>Wrot Meranti</u>			
2	70 x 108mm Rebated frame bolted to steel support (elsewhere measured)	m	41	
	<u>Sundries</u>			
	<u>Wrot Meranti</u>			
3	19mm Quadrant bead	m	82	
4	38 x 50mm Rebated, splayed and grooved weather board including groove in door	m	6	
	<u>IRONMONGERY</u>			
5	102 x 75 x 3mm Two ball bearing butt hinge as Dorma DBB-SS-009	No	24	
6	Two point locking panic bar as Dorma PHA2 S SD	Sets	8	
7	150mm Cabin hook and eye as Halstead 166SC including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	8	
	Carried to Collection			R
	Bill No. 2 FACTORY BUILDING			

Item No		Quantity	Rate	Amount
1	175 x 75 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t 36.67		
2	175 x 75 x 20 x 2,5 mm Cold formed lipped channel window and louvred panel frames (pre-punched)	t 3.14		
3	175 x 75 x 20 x 2,5 mm Cold formed lipped channel door posts (pre-punched)	t 0.27		
	<u>Hot Dipped Galvanised Members</u>			
4	175 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t 10.75		
5	254 x 254 x 89kg/m H section column	t 46.46		
6	254 x 146 x 31kg/m I section column	t 3.91		
7	406 x 140 x 39 kg/m I section column	t 22.81		
8	406 x 178 x 54kg/m I section column	t 2.04		
9	406 x 178 x 75 kg/m I section column	t 21.11		
10	Roof truss members comprising 102 x 133 x 15kg/m T-sections (203 x 133 x 30kg/m UB cut in half)	t 81.65		
11	Roof truss members comprising angle iron rafters, posts, diagonals, etc	t 54.55		
12	Girder truss members comprising parallel flange channel sections	t 36.72		
	Carried to Collection		R	
	Bill No. 2 FACTORY BUILDING			

Item No		Quantity	Rate	Amount
1	Girder members comprising angle iron rafters, posts, diagonals, etc	t 13.03		
2	203 x 133 x 25 kg/m I section rafter	t 7.56		
3	Bracing and sag bars comprising angle iron members	t 64.40		
4	101.6 x 3.5 Circular hollow section bracing	t 3.80		
5	Extended eave framework comprising angle iron rails, struts, diagonals, etc	t 9.78		
6	200 x 75 x 25 kg/m Parallel flange channel door posts	t 4.68		
7	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t 104.00		
	<u>Hot Dipped Galvanised Gutter Brackets</u>			
8	IPE 160 Support rails cut between stanchions	t 2.85		
9	IPE 160 Support rails horizontally	t 13.94		
10	Eaves gutter bracket formed of 6mm thick x 100mm wide plate x 750mm girth, bent to radius, welded to top of and including two 90 x 90 x 6mm x 200mm high angle iron foot brackets (refer to HSC Engineers drawing No S14 B)	No 58		
11	Eaves gutter bracket formed of 6mm thick x 100mm wide plate x 600mm girth, bent to radius, welded to top of and including two 90 x 90 x 6mm x 300mm high angle iron foot brackets (refer to HSC Engineers drawing No S14 B)	No 140		
	Carried to Collection		R	
	Bill No. 2 FACTORY BUILDING			

Item No		Quantity	Rate	Amount
	<u>Hot Dipped Galvanised Holding Down Bolts, Etc</u>			
1	M20 x 550mm Long holding down bolt (grade 8.8 threaded bar) complete with two nuts and washers and 80 x 80 x 10mm anchor plate welded to bottom	No 704		
2	M24 x 650mm long ditto	No 282		
3	Embed set of four 24mm diameter holding down bolts (elsewhere measured) in exact position in top of concrete stub column including forming 75mm diameter x 200mm deep pocket around each bolt and filling in pocket with 30 MPa non-shrink grout	Sets 48		
4	Embed set of six 24mm diameter holding down bolts (elsewhere measured) in exact position in top of concrete stub column including forming 75mm diameter x 200mm deep pocket around each bolt and filling in pocket with 30 MPa non-shrink grout	Sets 15		
5	Embed set of eight 20mm diameter holding down bolts (elsewhere measured) in exact position in top of concrete stub column including forming 75mm diameter x 150mm deep pocket around each bolt and filling in pocket with 30 MPa non-shrink grout	Sets 88		
	<u>Budgetary Allowances For Work To Be Undertaken By The Structural Steel Specialist</u>			
6	Provide the Budgetary Allowance of R200 000-00 (two hundred thousand rand) for the supply and installation of framework for diagonal cladding	Item		200,000.00
7	Provide the Budgetary Allowance of R1 250 000-00 (one million two hundred and fifty thousand rand) for the supply and installation of expanded metal ventilation grids	Item		1,250,000.00
	<u>METALWORK</u>			
	Carried to Collection		R	
	Bill No. 2 FACTORY BUILDING			

Item No		Quantity	Rate	Amount
	<u>BRASS</u>			
1	50 x 3mm Water bar including cutting to lengths and embedding in position in concrete	m	6	
	<u>DOCK LEVELLERS</u>			
2	Stab-A-Load 710 hydraulic oil dock leveller complete with galvanised steel brackets, D type rubber dock bumpers, 6mm rubber dock seals, installation, etc and including supply only of galvanised steel dock leveller frame (casting in of frame elsewhere measured)	No	4	
3	Take delivery of galvanised steel dock leveller frame size 2.16 x 2.85 x 0.51m high and cast into position on concrete dock leveller pit	No	4	
	<u>ROLLER SHUTTER DOORS</u>			
4	Xpanda galvanised steel chain operated slatted roller shutter door size 5.00 x 5.00m complete with aluminium T bar, 5 no Fenestra vision laths with polycarb inserts, including building into position	No	9	
	<u>ALUMINIUM WINDOWS AND DOORS</u>			
	<u>NOTE</u>			
	1. See attached drawings for general aluminium window and door specifications including glass and glazing.			
	2. All items must come with protective tape and plastic to be removed only once surrounding trades are complete.			
	3. All windows and doors to be sealed all round both sides with silicone sealant.			
	4. Window or door reference number is indicated in brackets at the end of each relevant description.			
	5. See also attached ironmongery schedules for the relevant doors.			
	6. All opening sashes to be fitted with burglar bars.			
	7. The aluminium contractor must allow for support work to all shop fronts from finished floor level to underside of slab where required.			
	Carried to Collection		R	
	Bill No. 2			
	FACTORY BUILDING			

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Bill No. 2

FACTORY BUILDING

COLLECTION

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Bill No. 2
FACTORY BUILDING

Bill No. 2

FACTORY BUILDING

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Bill No. 2
FACTORY BUILDING

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>ADMINISTRATION BLOCK</u>			
<u>ALL TRADES</u>			
<u>Note:</u>			
For Preambles and Specifications refer to:			
1. "Model Preambles for Trades" as published by the Association of South African Quantity Surveyors (2008 Edition).			
2. Where a trade name is specified an equal or other approved trade name may be approved subject to the Client's approval.			
<u>FOUNDATIONS</u>			
<u>Note:</u>			
Soft rock means all rock excavation in "intermediate excavation" as described in 3.1.2 2b) of SABS 1200			
Hard rock means all rock excavation in "hard rock" as described in 3.1.2 2c) of SABS 1200			
Quantities are measured nett - no allowance will be made for bulking.			
<u>EARTHWORKS</u>			
<u>Trench, Etc. Excavations</u>			
<u>Excavate In Earth Not Exceeding 2.00m Deep Including Trimming Sides, Levelling And Ramming Bottoms And Deposit On Site In Spoil Heaps For:</u>			
1	Surface trenches	m3	148
2	Column bases	m3	25
Carried to Collection			R
Bill No. 3			
ADMINISTRATION BUILDING			

Item No		Quantity	Rate	Amount
1	Extra over trench, etc excavation in earth for excavation in intermediate material	m3	40	
2	Ditto, in hard rock	m3	20	
3	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	510	
4	Allow for keeping excavations free from water	Item		
5	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	173	
6	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	99	
7	75mm Thick sub-base course of G5 material supplied by the contractor and compacted under floors, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	21	
8	75mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	21	
9	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 98% AASHTO density	m2	267	
10	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	267	
11	Modified AASHTO density test on filling, etc	No	6	
Carried to Collection				R
Bill No. 3 ADMINISTRATION BUILDING				

Item No		Quantity	Rate	Amount
	<u>Testing</u>			
1	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	No 20		
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
2	Surface beds cast in panels including temporary formwork	m3 35		
3	Slabs including beams and inverted beams	m3 49		
4	Cantilevered "eye brow" slabs including beams and inverted beams	m3 4		
5	Stairs including landings, beams and inverted beams	m3 7		
6	Isolated beams	m3 12		
7	Columns	m3 19		
8	Thicken out surface bed under walls 600mm wide x 250mm thick extreme including any excavations, formwork, etc	m 37		
	<u>Sundries</u>			
9	Average 50mm Thick SikaGrout 212 applied in strict accordance with product specifications under baseplate	m2 2		
10	3 x 75mm Saw cut joint in top of concrete surface bed reamed to 8 x 35mm	m 50		
11	Sikaflex Pro-3 with backing cord in filling to the above saw cut joint in strict accordance with the manufacturers instructions	m 50		
	Carried to Collection		R	
	Bill No. 3 ADMINISTRATION BUILDING			

Item No			Quantity	Rate	Amount
1	1.60mm Galvanised hoop iron tie 30mm wide x 450mm long with one end shot fixed to concrete and other end bent down and built into brickwork as the work proceeds	No	1,404		
	<u>Contraction And Expansion Joints</u>				
2	10mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 10 x 10mm hinged blocking piece between concrete or brick surfaces	m	277		
3	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3 polyurethane sealant	m	509		
4	20mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 20 x 18mm hinged blocking piece between concrete or brick surfaces	m	222		
5	Remove blocking piece and seal 20 x 18mm cavity with Sikaflex Pro-3 polyurethane sealant	m	222		
	<u>FORMWORK</u>				
	<u>Close Rough Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>				
6	Soffit of slabs not exceeding 3.50m high	m2	219		
7	Soffit of cantilever slabs not exceeding 3.50m high	m2	26		
8	Raking soffit of stairs	m2	20		
9	Sides and soffits of beams not exceeding 3.50m high	m2	103		
10	Sides and soffits of isolated beams not exceeding 3.50m high	m2	125		
11	Sides of rectangular columns not exceeding 3.50m high	m2	70		
	Carried to Collection			R	
	Bill No. 3 ADMINISTRATION BUILDING				

Item No		Quantity	Rate	Amount
	<u>Prime Surfaces And Apply Planiseal 288 Cementitious Mortar Applied All In Strict Accordance With The Manufacturers Instructions</u>			
1	On tops, sides and soffits of plastered hood slabs	m2	5	
	<u>Sundries</u>			
2	Prepare surface and apply two coats ABE Silvakote to torch-on waterproofing	m2	66	
	<u>ROOF COVERINGS, ETC</u>			
	<u>0.8mm Global Roofing Solution Aluminium Nu-Rib Profile' Roof Sheeting And Accessories, With Stucco Embossed PVDF Finish (Colour Metallic Silver) On External Face And Standard Backing Coat On Internal Face, Fixed To Steel Cladding Rails In Single Lengths All In Strict Accordance With The Manufacturer's Instructions</u>			
	<u>Note</u>			
	Side cladding fixed with broad flute facing out.			
3	Side cladding to eaves and verges including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximately 1500mm centres	m2	69	
	<u>0.8mm Thick Global Roofing Solutions Klip-Tite'Hulett's Aluminium Roof Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Metallic Silver) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturers Instructions:</u>			
4	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps to purlins at approximately 1500mm centres	m2	349	
	Carried to Collection			
	Bill No. 3			
	ADMINISTRATION BUILDING			
			R	

Item No			Quantity	Rate	Amount
	<u>9mm Thick Rhinoboard Plasterboard Ceiling Panels On Donn Galvanised Suspension System Including Main And Cross Tees, 63,5mm Steel Studs, Necessary Hangers, Sub-Grids, Etc. Including Skimming Entire Surface All In Strict Accordance With The Manufacturers Instructions</u>				
1	Vertical and horizontal bulkheads	m	17		
	<u>Sundries</u>				
2	SM25 White Aluminium shadowline cornice plugged	m	426		
3	100mm Thick "Aerolite" insulation with a R-value of 2.85m laid over ceiling grid	m2	404		
	<u>PARTITIONS, ETC</u>				
	<u>"Gypwall Classic 63/F30S42" Or Other Approved Partitioning System With 63.5mm Steel Studs And Covered On Both Sides With 12.5mm Rhinoboard (Skirtings Elsewhere Measured)</u>				
4	Partitioning 700mm high fixed on top of aluminium shopfronts (elsewhere measured) with top track fixed to suspended ceiling tee including aluminium U-shaped capping to top and bottom edges of wall	m	15		
5	Extra over for end intersection with brick wall	No	3		
6	Ditto, corner	No	1		
7	Ditto, T-intersection	No	1		
8	Partitioning 2700mm high with bottom track plugged to floor and top track fixed to suspended ceiling tee including aluminium U-shaped capping to top of wall	m	3		
9	Extra over for end intersection with brick wall	No	1		
	Carried to Collection			R	
	Bill No. 3				
	ADMINISTRATION BUILDING				

Item No			Quantity	Rate	Amount
	<u>500 x 500mm Belgotex Berberpoint 650 Nexbac Carpet Tiles Of Approved Colour Including Laying, Adhesive, Etc</u>				
1	On floors	m2	25		
	<u>Sundries</u>				
2	6mm Thick Tal Screedmaster self levelling screed laid on new screeds all in strict accordance with the manufacturers instructions	m2	25		
3	Stainless steel carpet edge strip as Kirk ACE380	m	1		
	<u>IRONMONGERY</u>				
4	102 x 75 x 3mm Two ball bearing butt hinge as Dorma DBB-SS-009	No	53		
5	100mm Aluminium sinkless hinge as Alufab 1040	No	2		
6	200mm Aluminium sinkless hinge as Alufab 2040	No	18		
7	2100mm Aluminium sinkless hinge as Alufab 5050	No	4		
8	150mm Flush bolt as Alufab M1519AS	No	4		
9	Lever handle on rose as Dorma CR003-Latch-SS	Sets	15		
10	Pull handle as Dorma DPH301C-BT-SS	No	6		
11	Ditto, as Dorma DPH301B-SS	No	1		
12	Ditto, as Dorma DPH209BT-SS	No	4		
	Carried to Collection			R	
	Bill No. 3				
	ADMINISTRATION BUILDING				

Item No			Quantity	Rate	Amount
1	Ditto, as Dorma DPH206BTB-SS	Pairs	2		
2	Pull handle as Dorma DPH301C-BT-SS on a 170 x 170mm plate with cylinder cut out as Dorma DHP-430-CR-SF	No	1		
3	Ditto, but with plate as Dorma DHP-430-CL-SF	No	1		
4	Adjustable roller bolt as Dorma DBC-022-SS	No	6		
5	Bathroom WC indicator and turnknob as Dorma DWC-005-SS	Sets	10		
6	Disabled WC indicator and turnknob as Dorma DWC-006-SS	Sets	1		
7	Bathroom sash lock as Dorma D035-SS	No	10		
8	Bathroom deadlock as Dorma DMWC-008-SS	No	1		
9	Cylinder sash lock as Dorma D0365-SS	No	5		
10	Cylinder deadlock as Dorma D037D-SS	No	8		
11	Exterior access lock with handle as Dorma PHT3901	No	1		
12	41mm Half knob cylinder as Dorma DHK 204101	No	1		
13	42.5mm Five pin half cylinder as CISA-NP GGMK	No	1		
14	65mm Double cylinder as CISA NP GGMK	No	5		
15	65mm Knob cylinder as CISA NP GGMK	No	10		
Carried to Collection					R
Bill No. 3 ADMINISTRATION BUILDING					

Item No			Quantity	Rate	Amount
1	Master key	No	4		
2	Escutcheon as Dorma DCE-002-SS	Pairs	15		
3	Dust proof strike as Dorma DPS-032-SS	No	1		
4	Two point locking panic bar as Dorma PHA2 S SD	Sets	2		
5	Door closer as Dorma TS73V PA SL	No	2		
6	Ditto, as Dorma TS73V DC PA SL	No	1		
7	Ditto, as Dorma TS83 PA SL	No	3		
8	Ditto, as Dorma TS92B	No	1		
9	Ditto, as Dorma TS91B SL	No	2		
10	150mm Cabin hook and eye as Halstead 166SC including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1		
11	Door stop as Dorma DDS-SS-017	No	3		
12	Hat and coat hook as Dorma DHC-SS-031B	No	10		
13	Wall buffer as Dorma DDH-020-SS	No	4		
14	Paraplegic grab rail as Chairman Industries DL2	No	1		
15	Ditto, as Chairman Industries SR2	No	1		
Carried to Collection					R
Bill No. 3 ADMINISTRATION BUILDING					

Item No			Quantity	Rate	Amount
1	Toilet roll dispenser as Franke TR2 fixed to wall	No	12		
2	Soap dish holder as Serra as SD1310	No	6		
3	Chromium plated towel rail 600mm long including end brackets	No	6		
4	150 x 150mm Sign as Dorma DSS-130M	No	2		
5	150 x 150mm Sign as Dorma DSS-131F	No	2		
6	150 x 150mm Sign as Dorma DSS-132MF	No	1		
7	150 x 150mm Sign as Dorma DSS-135P	No	1		
8	150 x 150mm Sign as Dorma DSS-145FHR	No	2		
9	813 x 250mm Stainless steel kick/push plate counter screwed around perimeter as Dorma DKP-430-SF-250	No	10		
10	Ditto, as DKP-430-GF-300	No	1		
Carried to Collection					R
Bill No. 3 ADMINISTRATION BUILDING					

Item No			Quantity	Rate	Amount
	<u>Hot Dipped Galvanised Members</u>				
1	175 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t	0.79		
2	16mm Diameter sag rods	t	0.14		
3	50 x 50 x 5mm Angle iron sag rods between roof members	t	0.34		
4	50 x 50 x 5mm Angle iron eaves trimmers	t	0.13		
5	50 x 50 x 6mm Angle iron knee bracing	t	0.52		
6	70 x 70 x 6mm Angle iron rafter bracing	t	0.48		
7	254 x 146 x 31kg/m UB rafters	t	3.41		
8	Purpose made T-section rafter leg support size 300 x 200 x 600mm high formed of 10mm plate	No	6		
9	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	1.36		
	<u>Hot Dipped Galvanised Holding Down Bolts, Etc</u>				
10	M16 x 500mm Holding down bolt (grade 8.8 threaded bar) complete with two nuts and two washers and 80 x 80 x 10mm anchor welded to bottom end	No	24		
11	Embed set of four M16 holding down bolts (elsewhere measured) in exact position in top of concrete beam including forming 75mm diameter x 100mm deep pocket around each bolt and filling in pocket with 30MPa non-shrink grout	Sets	7		
	Carried to Collection				R
	Bill No. 3				
	ADMINISTRATION BUILDING				

Item No			Quantity	Rate	Amount
1	Window size 600 x 900mm (W4)	No	1		
2	Window size 2750 x 600mm (W5)	No	6		
3	Window size 1500 x 900mm (W6)	No	9		
4	Window size 1800 x 800mm (W7)	No	1		
5	Window size 1500 x 600mm (W9)	No	1		
6	Louvred door size 650 x 2100mm (type G) with type 11 ironmongery	No	4		
7	Door size 900 x 2100mm (type M) with type 16 ironmongery	No	1		
8	Double door size 1613 x 2100mm (type F) with type 08 ironmongery	No	2		
9	Double door size 1240 x 2100mm (type H) with type 11 ironmongery	No	2		
10	Shop front size 3000 x 3350mm including double door (SF1) with type 08 ironmongery	No	1		
11	Shop front size 3000 x 2100mm including single door (SF2) with type 07 ironmongery	No	1		
12	Shop front size 6382 x 2100mm including single door (SF3) with type 14 ironmongery	No	1		
13	Shop front size 2930 x 2100mm including two single doors (SF4) with type 14 ironmongery	No	2		
Carried to Collection					R
Bill No. 3 ADMINISTRATION BUILDING					

Item No		Quantity	Rate	Amount
	<u>EXTERNAL PLASTER</u>			
	<u>Cement Plaster On:</u>			
1	Walls including flush columns and beams	m2	30	
2	Concrete ceilings	m2	30	
3	Narrow widths	m2	9	
4	Average 35mm thick weathering to top of hood slabs	m2	30	
5	Drip groove to soffit of slab	m	29	
	<u>TILING</u>			
	<u>WALL TILING</u>			
	<u>300 x 600mm Tile Africa Shiny White Ceramic Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To Plaster (Plaster Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>			
6	On walls	m2	27	
7	On narrow widths	m2	8	
	<u>600 x 600mm Tile Africa Industria Grey Eco Gres Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To Plaster (Plaster Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>			
8	On walls	m2	402	
9	On narrow widths	m2	51	
	Carried to Collection			R
	Bill No. 3 ADMINISTRATION BUILDING			

Item No			Quantity	Rate	Amount
	<u>Sundries</u>				
1	Stainless steel tile trim as Kirk SQE1210	m	339		
2	Stainless steel trim as Kirk ACE380	m	78		
	<u>FLOOR TILING</u>				
	<u>600 x 600mm Tile Africa Industria Charcoal Eco S/R Gres Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To Screeds (Screeds Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
3	On floors	m2	111		
4	Cut skirting tile 100mm high	m	99		
	<u>600 x 600mm Tile Africa Industria Grey Eco Gres Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To screeds (Screeds Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
5	On floors	m2	188		
6	Cut skirting tile 100mm high	m	128		
	<u>600 x 600mm Tile Africa Industria Charcoal Slip Resistant Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water Including Applying Tal Keycoat And Tal Keymix To Screeds (Screeds Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
7	On floors	m2	95		
8	On floors to falls to outlet including cutting tiles to size 50 x 300mm squares	m2	5		
	Carried to Collection			R	
	Bill No. 3				
	ADMINISTRATION BUILDING				

Item No			Quantity	Rate	Amount
	<u>Prepare Surface And Apply One Coat Plascon UC2 Primer, One Plascon UC1 Undercoat And Two Coats Plascon Velvaglo Paint On</u>				
1	Doors	m2	79		
2	Door frames	m2	27		
3	Skirting, rail, etc not exceeding 300mm girth	m	21		
Carried to Collection					R
Bill No. 3 ADMINISTRATION BUILDING					

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ADMINISTRATION BUILDING

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ADMINISTRATION BUILDING

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Bill No. 3
ADMINISTRATION BUILDING

Item No		Quantity	Rate	Amount
1	Extra over trench, etc excavation in earth for excavation in intermediate material	m3	12	
2	Ditto, in hard rock	m3	6	
3	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	141	
4	Allow for keeping excavations free from water	Item		
5	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	57	
6	Earth filling using imported G7 material in backfilling to trenches, etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	29	
7	Earth filling using imported G5 material in filling under floors and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	86	
8	75mm Thick sub-base course of G5 material supplied by the contractor and compacted under floors, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	8	
9	75mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	8	
10	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 98% AASHTO density	m2	96	
Carried to Collection				R
Bill No. 4 RECEIVING ADMINISTRATION BLOCK				

Item No		Quantity	Rate	Amount
1	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	96	
2	Modified AASHTO density test on filling, etc	No	4	
	<u>CONCRETE</u>			
	<u>Note:</u>			
	For convenience test cubes and reinforcement are measured under concrete, formwork and reinforcement hereafter.			
	<u>Cement Concrete 15MPa/19mm Stone In:</u>			
3	Blinding under ground beams, bases, etc cast against excavated surfaces	m3	1	
	<u>Cement Concrete 25MPa/19mm Stone In:</u>			
4	Filling to cavity of hollow wall	m3	5	
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
5	Footings cast against excavated surfaces	m3	13	
6	Bases cast against excavated surfaces	m3	1	
7	Columns	m3	1	
	<u>Sundries</u>			
8	1.60mm Galvanised hoop iron tie 30mm wide x 450mm long with one end shot fixed to concrete and other end bent down and built into brickwork as the work proceeds	No	72	
	Carried to Collection			R
	Bill No. 4			
	RECEIVING ADMINISTRATION BLOCK			

Item No		Quantity	Rate	Amount
	<u>Contraction And Expansion Joints</u>			
1	10mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 10 x 10mm hinged blocking piece between concrete or brick surfaces	m	24	
2	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3 polyurethane sealant	m	24	
	<u>FORMWORK</u>			
	<u>Close Rough Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>			
3	Sides of rectangular columns exceeding 3.50 and not exceeding 5.00m high	m2	8	
	<u>MASONRY</u>			
	<u>Note</u>			
	Bricks to have a minimum compressive strength of 7MPa and are to be solid clay bricks, ie no openings.			
	Mortar for brickwork to be Class 1 (28 days strength and 14.5MPa minimum)			
	<u>Brickwork In (Class 1) Cement Mortar In:</u>			
4	Half brick wall in lining to concrete including wire ties	m2	6	
5	One brick wall	m2	45	
6	270mm Hollow wall formed of two half brick skins including butterfly wire ties	m2	94	
	<u>Sundries</u>			
7	80mm Brick mesh reinforcement in walls	m	2,134	
8	155mm Ditto	m	495	
	Carried to Collection			R
	Bill No. 4			
	RECEIVING ADMINISTRATION BLOCK			

Item No			Quantity	Rate	Amount
1	Sikaflex Pro-3 with backing cord in filling to the above saw cut joint in strict accordance with the manufacturers instructions	m	40		
2	1.60mm Galvanised hoop iron tie 30mm wide x 450mm long with one end shot fixed to concrete and other end bent down and built into brickwork as the work proceeds	No	147		
	<u>Contraction And Expansion Joints</u>				
3	10mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 10 x 10mm hinged blocking piece between concrete or brick surfaces	m	33		
4	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3 polyurethane sealant	m	33		
5	20mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 20 x 18mm hinged blocking piece between concrete or brick surfaces	m	99		
6	Remove blocking piece and seal 20 x 18mm cavity with Sikaflex Pro-3 polyurethane sealant	m	99		
	<u>FORMWORK</u>				
	<u>Close Rough Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>				
7	Sides of steps	m2	3		
8	Sides of rectangular columns exceeding 3.50 and not exceeding 5.00m high	m2	12		
9	Sides of rectangular columns exceeding 5.00 and not exceeding 6.50m high	m2	10		
10	Edge, riser, etc not exceeding 300mm high	m	31		
	Carried to Collection			R	
	Bill No. 4				
	RECEIVING ADMINISTRATION BLOCK				

Item No			Quantity	Rate	Amount
	<u>REINFORCEMENT</u>				
	<u>Mild Steel Rod Reinforcement To Structural Concrete Work</u>				
1	8mm Diameter bars	t	0.4		
	<u>High Tensile Rod Reinforcement To Structural Concrete Work</u>				
2	10mm Diameter bars	t	0.5		
3	12mm Diameter bars	t	0.4		
4	16mm Diameter bars	t	0.4		
5	20mm Diameter bars	t	0.4		
6	25mm Diameter bars	t	0.3		
7	32mm Diameter bars	t	0.1		
	<u>Fabric Reinforcement</u>				
8	Type 193 fabric reinforcement in concrete surface beds	m2	96		
	<u>MASONRY</u>				
	<u>Note</u>				
	Bricks to have a minimum compressive strength of 7MPa and are to be solid clay bricks, ie no openings.				
	Mortar for brickwork to be Class 1 (28 days strength and 14.5MPa minimum)				
	<u>Brickwork In (Class 1) Cement Mortar In:</u>				
9	Half brick wall	m2	23		
	Carried to Collection				
	Bill No. 4				
	RECEIVING ADMINISTRATION BLOCK				
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Item No		Quantity	Rate	Amount
1	"Secomastic" or other approved mastic sealer in neatly pointing and sealing at junction of timber door frame with facebrick	m	15	
2	2mm Galvanised hoop iron cramp 38mm wide x 450mm girth with one end fixed to back of timber door frame and other end built into brickwork as the work proceeds	No	40	
	<u>Facings</u>			
	<u>Facings Formed Of Selected Corobrik Pampas Satin FBS Face Bricks Pointed With Square Horizontal And Vertical Joints</u>			
3	Extra over brickwork for faced brickwork externally	m2	83	
4	Ditto, internally	m2	18	
5	Raking cutting and waste	m	16	
6	Facebrick on edge cut soldier course lintol	m	14	
7	200mm Wide cut brick on edge sill set sloping and slightly projecting	m	12	
	<u>WATERPROOFING</u>			
	<u>DAMPPROOFING OF FLOORS AND WALLS</u>			
	<u>One Layer Of 250 Micron USB Green Waterproof Sheeting Sealed At Laps With Pressure Sensitive Tape</u>			
8	Under surface beds	m2	96	
	<u>One Layer Of 375 Micron Embossed Damp Proof Course</u>			
9	In walls	m2	34	
	Carried to Collection			R
	Bill No. 4			
	RECEIVING ADMINISTRATION BLOCK			

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Item No			Quantity	Rate	Amount
	<u>Toilet Cubicles As Supplied By Cubicle Supplier</u> <u>Solutions Manufactured With 12mm Thick Compact</u> <u>High Pressure Laminate Of Approved Colour In Cube</u> <u>Standard Range 1 (Code CSt1/304) Modular, Frameless</u> <u>System With Supporting Powder Coated Aluminium</u> <u>Head Rail, Floor Anchored With Adjustable Supporting</u> <u>Feet (Code CSSF01/316/13) Bracketed To Walls And</u> <u>Partitions With Stainless Steel Brackets (Code</u> <u>CSSBr01/304) Including Hat And Coat Hooks (Code</u> <u>CSSH&C02/304) With Buffer Stopper, Indicator bolt</u> <u>(Code CSTIN01/316/13) And Rise And Fall Butt Auto</u> <u>Open Hinge (Code CSTR&F01/316/13) All In Strict</u> <u>Accordance With The Manufacturer's Instructions</u>				
1	Intermediate partition size 1500 x 1935mm	No	1		
2	End pilaster size 125 x 1935mm	No	2		
3	Intermediate pilaster size 250 x 1935mm	No	1		
4	Door size 750x 1930mm including ironmongery as described above	No	2		
	<u>IRONMONGERY</u>				
5	102 x 75 x 3mm Two ball bearing butt hinge as Dorma DBB-SS-009	No	15		
6	Lever handle on rose as Dorma CR003-Latch-SS	Sets	2		
7	Pull handle as Dorma DPH301B-SS	No	2		
8	Ditto, as Dorma DPH209BTB-SS	Pairs	1		
9	Pull handle as Dorma DPH301C-BT-SS on a 170 x 170mm plate with cylinder cut out as Dorma DHP-430-CR-SF	No	1		
10	Ditto, but with plate as Dorma DHP-430-CL-SF	No	1		
	Carried to Collection			R	
	Bill No. 4				
	RECEIVING ADMINISTRATION BLOCK				

Item No			Quantity	Rate	Amount
1	Disabled WC indicator and turnknob as Dorma DWC-006-SS	Sets	1		
2	Bathroom sash lock as Dorma D036S-SS	No	2		
3	Bathroom deadlock as Dorma DMWC-008-SS	No	1		
4	Cylinder deadlock as Dorma D037D-SS	No	1		
5	65mm Knob cylinder as CISA NP GGMK	No	3		
6	Master key	No	2		
7	Escutcheon as Dorma DCE-002-SS	Pairs	2		
8	Door closer as Dorma TS73V DC PA SL	No	1		
9	Ditto, as Dorma TS83 PA SL	No	1		
10	Ditto, as Dorma TS91B SL	No	1		
11	Door stop as Dorma DDS-SS-017	No	2		
12	Wall buffer as Dorma DDH-020-SS	No	1		
13	Paraplegic grab rail as Chairman Industries DL2	No	1		
14	Ditto, as Chairman Industries SR2	No	1		
15	Toilet roll dispenser as Franke TR2 fixed to wall	No	4		
16	Soap dish holder as Serra as SD1310	No	1		
Carried to Collection				R	
Bill No. 4 RECEIVING ADMINISTRATION BLOCK					

Item No			Quantity	Rate	Amount
1	Chromium plated towel rail 600mm long including end brackets	No	3		
2	150 x 150mm Sign as Dorma DSS-130M	No	1		
3	150 x 150mm Sign as Dorma DSS-131F	No	1		
4	150 x 150mm Sign as Dorma DSS-132MF	No	1		
5	150 x 150mm Sign as Dorma DSS-135P	No	1		
6	813 x 300mm Stainless steel kick/push plate counter screwed around perimeter as Dorma DKP-430-GF-300	No	2		
<u>STRUCTURAL STEELWORK (PROVISIONAL)</u>					
<u>NOTE</u>					
All structural steelwork to comply with the requirements of SANS 2001:CSI and the relevant project specifications					
Dimensions and levels to be verified on site prior to manufacture.					
Any discrepancies found during site measure to be reported to and resolved by the Engineer prior to manufacture.					
All structural steel elements must be inspected by the Engineer prior to transporting to site.					
All bolts must be grade 8.8 unless otherwise specified by the Engineer.					
Carried to Collection					R
Bill No. 4 RECEIVING ADMINISTRATION BLOCK					

Item No		Quantity	Rate	Amount
	<p>All welds to be 6mm continuous fillet welds with E700XX electrodes, according to AWS or similar approved by the Engineer</p> <p>10% of all fillet welds and 100% of butt welds to be subjected to non-destructive testing</p> <p>All hot rolled structural steel members to be grade S355JR, all hollow tube steelwork shall be grade S355 and all cold formed steelwork shall be to SANS 10162 Part 1 with a minimum yield stress of 200MPa and a minimum tensile stress of 365 MPa unless otherwise noted</p> <p>Purlins and girts to be pre-galvanised.</p> <p>All structural steelwork inclusive of bolts, nuts, washers, plates, connections, etc., other than purlins & girts to be hot dipped galvanised in accordance with SANS 121 or ISO 1461</p> <p>All hot dipped members to be drilled, cut, welded, etc., prior to galvanising.</p> <p>Prices to include for preparation of shop drawings for approval of the Engineer prior to manufacture. A minimum of 7 days must be allowed for checking of shop drawings.</p> <p>Prices to include for fabrication, cutting, drilling, bending, welding, etc., delivery to site, and hoisting up and erecting into position.</p> <p>Prices are also to include for establishing precise positioning of Holding down bolts by means specialist Surveying techniques.</p>			
	Carried to Collection		R	
	<p>Bill No. 4</p> <p>RECEIVING ADMINISTRATION BLOCK</p>			

Item No		Quantity	Rate	Amount
	<p>Note: The following restrictions are applicable on ground floor slab during construction and erection of structural steel.</p> <p>0-7 days: Concrete curing; no loading on ground floor slab permitted. 7-14 days: Light foot traffic permitted. 14-28 days: Light vehicles <5 ton. 28+ days: Maximum gross crane load during construction = 25 ton (excludes lifting load). Crane outrigger base footings to be on double cross layer of 50 x 228mm timber spreader supports over and area of 1,00 x 1,00m or similar approved by the Engineer to avert damage to concrete ground floor slab. Only tyre cranes permitted on slab. Slab to be cleaned after completion.</p> <p><u>Pre-Galvanised Members</u></p>			
1	175 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t 0.42		
	<u>Hot Dipped Galvanised Members</u>			
2	175 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t 0.17		
3	50 x 50 x 5mm Angle iron sag rods between roof members	t 0.18		
4	50 x 50 x 5mm Angle iron gable girt	t 0.10		
5	70 x 70 x 6mm Angle iron bracing	t 0.18		
6	254 x 146 x 31kg/m UB rafters	t 0.95		
7	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t 0.35		
	Carried to Collection		R	
	Bill No. 4 RECEIVING ADMINISTRATION BLOCK			

Item No			Quantity	Rate	Amount
	<u>WALL TILING</u>				
	<u>300 x 600mm Tile Africa Shiny White Ceramic Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To Plaster (Plaster Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
1	On walls	m2	25		
2	On narrow widths	m2	1		
	<u>600 x 600mm Tile Africa Industria Grey Eco Gres Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To Plaster (Plaster Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
3	On walls	m2	79		
4	On narrow widths	m2	4		
	<u>Sundries</u>				
5	Stainless steel tile trim as Kirk SQE1210	m	56		
	<u>FLOOR TILING</u>				
	<u>600 x 600mm Tile Africa Industria Charcoal Eco S/R Gres Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To Screeds (Screeds Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
6	On floors	m2	20		
7	On narrow widths	m2	1		
8	Cut skirting tile 100mm high	m	38		
	Carried to Collection				R
	Bill No. 4				
	RECEIVING ADMINISTRATION BLOCK				

Item No			Quantity	Rate	Amount
	<u>600 x 600mm Tile Africa Industria Grey Eco Gres Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water To screeds (Screeds Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
1	On floors	m2	45		
2	Cut skirting tile 100mm high	m	33		
	<u>600 x 600mm Tile Africa Industria Charcoal Slip Resistant Porcelain Tiles Fixed With Tal Adhesive Mixed With Tal Bond InLieu Of Water Including Applying Tal Keycoat And Tal Keymix To Screeds (Screeds Elsewhere Measured) And Flush Pointed With Tal Tinted Epoxy Grout</u>				
3	On floors	m2	27		
4	On floors to falls to outlet including cutting tiles to size 50 x 300mm squares	m2	1		
5	On treads and risers of stairs	m2	4		
	<u>Sundries</u>				
6	Stainless steel tile trim as Kirk SQE1210	m	34		
7	Ditto, fixed to tops of skirtings	m	71		
8	Stainless steel diamond rubber bullnose stair nosing as Kirk SDRRBN700.N	m	9		
	<u>WATERPROOFING BEHIND TILES</u>				
	<u>Tal Superflex 1 Waterproofing Membrane Including Tal Primer Applied In Strict Accordance With The Manufacturers Instructions</u>				
9	On walls behind wall tiles	m2	7		
	Carried to Collection				R
	Bill No. 4				
	RECEIVING ADMINISTRATION BLOCK				

Item No			Quantity	Rate	Amount
	<u>Prepare Surface And Apply One Coat Primer On:</u>				
1	Backs of frames not exceeding 300mm girth	m	26		
	<u>Prepare Surface And Apply One Coat Plascon UC2 Primer, One Plascon UC1 Undercoat And Two Coats Plascon Velvaglo Paint On</u>				
2	Doors	m2	17		
3	Door frames	m2	8		
Carried to Collection					R
Bill No. 4 RECEIVING ADMINISTRATION BLOCK					

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RECEIVING ADMINISTRATION BLOCK

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Bill No. 4

RECEIVING ADMINISTRATION BLOCK

Item No		Quantity	Rate	Amount
1	Extra over trench, etc excavation in earth for excavation in intermediate material	m3	20	
2	Ditto, in hard rock	m3	10	
3	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	145	
4	Allow for keeping excavations free from water	Item		
5	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	78	
6	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	47	
7	75mm Thick sub-base course of G5 material supplied by the contractor and compacted under floors, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	1	
8	75mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	1	
9	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 98% AASHTO density	m2	14	
10	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	14	
11	Modified AASHTO density test on filling, etc	No	3	
Carried to Collection				R
Bill No. 5 GUARD HOUSE AND ENTRANCE CANOPY				

Item No		Quantity	Rate	Amount
	<u>Brickwork In (Class 1) Cement Mortar In:</u>			
1	One brick wall	m2	1	
2	270mm Hollow wall formed of two half brick skins including butterfly wire ties	m2	21	
	<u>Sundries</u>			
3	80mm Brick mesh reinforcement in walls	m	462	
4	155mm Ditto	m	11	
	<u>Facings</u>			
	<u>Facings Formed Of Selected Corobrik Pampas Satin FBS Face Bricks Pointed With Ruled Horizontal And Vertical Joints</u>			
5	Extra over brickwork for faced brickwork	m2	11	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>CONCRETE</u>			
	<u>Testing</u>			
6	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	No	6	
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
7	Surface beds cast in panels including temporary formwork	m3	2	
8	Thicken out surface bed under walls 600mm wide x 250mm thick extreme including any excavations, formwork, etc	m	2	
	Carried to Collection			R
	Bill No. 5			
	GUARD HOUSE AND ENTRANCE CANOPY			

Item No		Quantity	Rate	Amount
1	Support pad size 525 x 160 x 460mm high cast into recess in brick wall including any formwork, etc	No	6	
	<u>Sundries</u>			
2	Average 50mm Thick SikaGrout 212 applied in strict accordance with product specifications under baseplate	m2	3	
3	3 x 75mm Saw cut joint in top of concrete surface bed reamed to 8 x 35mm	m	3	
4	Sikaflex Pro-3 with backing cord in filling to the above saw cut joint in strict accordance with the manufacturers instructions	m	3	
	<u>Contraction And Expansion Joints</u>			
5	20mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 20 x 18mm hinged blocking piece between concrete or brick surfaces	m	16	
6	Remove blocking piece and seal 20 x 18mm cavity with Sikaflex Pro-3 polyurethane sealant	m	16	
	<u>REINFORCEMENT</u>			
	<u>Mild Steel Rod Reinforcement To Structural Concrete Work</u>			
7	8mm Diameter bars	t	0.8	
	<u>High Tensile Rod Reinforcement To Structural Concrete Work</u>			
8	10mm Diameter bars	t	0.6	
9	12mm Diameter bars	t	0.6	
10	16mm Diameter bars	t	0.6	
	Carried to Collection			R
	Bill No. 5			
	GUARD HOUSE AND ENTRANCE CANOPY			

Item No			Quantity	Rate	Amount
1	Turning piece to half brick wide soffit	m	3		
2	Labour and material building 50mm cavity solid vertically for half brick width	m	19		
3	Labour and material building 50mm cavity solid horizontally for two courses	m	13		
4	70 x 110mm Prestressed fabricated lintol in lengths not exceeding 3,00m	m	6		
5	80mm Brick mesh reinforcement in walls	m	228		
6	155mm Ditto	m	12		
7	2mm Galvanised hoop iron cramp 38mm wide x 450mm girth with one end fixed to back of timber door frame and other end built into brickwork as the work proceeds	No	8		
	<u>Facings</u>				
	<u>Facings Formed Of Selected Corobrik Pampas Satin FBS Face Bricks Pointed With Square Horizontal And Vertical Joints</u>				
8	Extra over brickwork for faced brickwork externally	m2	39		
9	Raking cutting and waste	m	6		
10	Facebrick on edge cut soldier course lintol	m	3		
11	200mm Wide cut brick on edge sill set sloping and slightly projecting	m	3		
	<u>WATERPROOFING</u>				
	<u>DAMPPROOFING OF FLOORS AND WALLS</u>				
	Carried to Collection			R	
	Bill No. 5				
	GUARD HOUSE AND ENTRANCE CANOPY				

Item No			Quantity	Rate	Amount
	<u>One Layer Of 250 Micron USB Green Waterproof Sheeting Sealed At Laps With Pressure Sensitive Tape</u>				
1	Under surface beds	m2	14		
	<u>One Layer Of 375 Micron Embossed Damp Proof Course</u>				
2	In walls	m2	9		
3	Vertically at jambs	m2	4		
	<u>ROOF COVERINGS, ETC</u>				
	<u>0.8mm Global Roofing Solution Aluminium Nu-Rib Profile' Roof Sheeting And Accessories, With Stucco Embossed PVDF Finish (Colour Azure Blue) On External Face And Standard Backing Coat On Internal Face, Fixed To Steel Cladding Rails In Single Lengths All In Strict Accordance With The Manufacturer's Instructions</u>				
	<u>Note</u>				
	Side cladding fixed with broad flute facing out.				
4	Side cladding including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximatley 1500mm centres	m2	84		
	<u>Sundries</u>				
5	Drip flashing 231mm girth	m	31		
6	Corner flashing 462mm girth	m	11		
	Carried to Collection				
	Bill No. 5				
	GUARD HOUSE AND ENTRANCE CANOPY				
				R	

Item No			Quantity	Rate	Amount
	<u>0.8mm Thick Global Roofing Solutions Klip-Tite'Hulets Aluminium Roof Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Metallic Silver) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturers Instructions:</u>				
1	Roof covering fixed to underside of purlins	m2	11		
	<u>Sundries</u>				
2	Cover strip 100mm girth	m	41		
	<u>0.8mm Thick Global Roofing Solutions Klip-Tite'Hulets Aluminium Roof Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Azure Blue) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturers Instructions:</u>				
3	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps to purlins at approximately 1500mm centres	m2	369		
	<u>Sundries</u>				
4	Narrow flute serrated closer including polybutton	m	19		
5	Broad flute serrated closer including polybutton	m	19		
6	Gable flashing 462mm girth	m	59		
7	Apex flashing 720mm girth	m	19		
	Carried to Collection			R	
	Bill No. 5				
	GUARD HOUSE AND ENTRANCE CANOPY				

Item No		Quantity	Rate	Amount
1	100mm Thick "Aerolite" insulation with a R-value of 2.85m laid over ceiling grid	m2	15	
	<u>IRONMONGERY</u>			
2	102 x 75 x 3mm Two ball bearing butt hinge as Dorma DBB-SS-009	No	3	
3	Lever handle on rose as Dorma CR003-Latch-SS	Sets	1	
4	Bathroom WC indicator and turnknob as Dorma DWC-005-SS	Sets	1	
5	Bathroom sash lock as Dorma D035-SS	No	1	
6	Hat and coat hook as Dorma DHC-SS-031B	No	1	
7	Toilet roll dispenser as Franke TR2 fixed to wall	No	1	
8	Chromium plated towel rail 600mm long including end brackets	No	1	
9	813 x 250mm Stainless steel kick/push plate counter screwed around perimeter as Dorma DKP-430-SF-250	No	1	
Carried to Collection				R
Bill No. 5				
GUARD HOUSE AND ENTRANCE CANOPY				

Item No		Quantity	Rate	Amount
1	Embed set of six M20 holding down bolts (elsewhere measured) in exact position in top of concrete beam including forming 75mm diameter x 100mm deep pocket around each bolt and filling in pocket with 30MPa non-shrink grout	Sets	9	
	<u>METALWORK</u>			
	<u>BRASS</u>			
2	50 x 3mm Water bar including cutting to lengths and embedding in position in concrete	m	2	
	<u>ALUMINIUM WINDOWS AND DOORS</u>			
	<u>NOTE</u>			
	1. See attached drawings for general aluminium window and door specifications including glass and glazing.			
	2. All items must come with protective tape and plastic to be removed only once surrounding trades are complete.			
	3. All windows and doors to be sealed all round both sides with silicone sealant.			
	4. Window or door reference number is indicated in brackets at the end of each relevant description.			
	5. See also attached ironmongery schedules for the relevant doors.			
	6. All opening sashes to be fitted with burglar bars.			
	7. The aluminium contractor must allow for support work to all shop fronts from finished floor level to underside of slab where required.			
	<u>Natural Anodised Aluminium Windows And Doors Complete With Ironmongery, Burglar Bars To Opening Sections, Glass, Etc And Fixing In Position</u>			
3	Window size 600 x 900mm (W1)	No	5	
4	Shop front size 2900 x 2293mm (SF9)	No	1	
5	L-shaped on elevation shop front size 3065 x 3249mm including single door (SF8, SF10) with type 22 ironmongery	No	2	
	Carried to Collection			R
	Bill No. 5			
	GUARD HOUSE AND ENTRANCE CANOPY			

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GUARD HOUSE AND ENTRANCE CANOPY

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Bill No. 5

GUARD HOUSE AND ENTRANCE CANOPY

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>REFUSE BUILDING</u>			
<u>ALL TRADES</u>			
<u>Note:</u>			
For Preambles and Specifications refer to:			
1. "Model Preambles for Trades" as published by the Association of South African Quantity Surveyors (2008 Edition).			
2. Where a trade name is specified an equal or other approved trade name may be approved subject to the Client's approval.			
<u>FOUNDATIONS</u>			
<u>Note:</u>			
Soft rock means all rock excavation in "intermediate excavation" as described in 3.1.2 2b) of SABS 1200			
Hard rock means all rock excavation in "hard rock" as described in 3.1.2 2c) of SABS 1200			
Quantities are measured nett - no allowance will be made for bulking.			
<u>EARTHWORKS</u>			
<u>Trench, Etc. Excavations</u>			
<u>Excavate In Earth Not Exceeding 2.00m Deep Including Trimming Sides, Levelling And Ramming Bottoms And Deposit On Site In Spoil Heaps For:</u>			
1	Surface trenches	m3	57
2	Extra over trench, etc excavation in earth for excavation in intermediate material	m3	12
Carried to Collection			R
Bill No. 6			
REFUSE BUILDING			

Item No		Quantity	Rate	Amount
1	Ditto, in hard rock	m3	6	
2	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	143	
3	Allow for keeping excavations free from water	Item		
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	57	
5	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	31	
6	75mm Thick sub-base course of G5 material supplied by the contractor and compacted under floors, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	14	
7	75mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	14	
8	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 98% AASHTO density	m2	169	
9	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	169	
10	Modified AASHTO density test on filling, etc	No	3	
<u>CONCRETE</u>				
Carried to Collection				R
Bill No. 6 REFUSE BUILDING				

Item No		Quantity	Rate	Amount
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>CONCRETE</u>			
	<u>Testing</u>			
1	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	No	5	
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
2	Surface beds cast in panels including temporary formwork	m3	19	
3	Ramp	m3	3	
4	Filling to cavity of hollow brick pier	m3	1	
	<u>Sundries</u>			
5	Float top of concrete surface bed to a smooth finish to falls with a wood float	m2	170	
6	3 x 75mm Saw cut joint in top of concrete surface bed reamed to 8 x 35mm	m	48	
7	Sikaflex Pro-3 with backing cord in filling to the above saw cut joint in strict accordance with the manufacturers instructions	m	48	
8	Form sump in surface bed size 450 x 450 x 400mm deep complete formed of 150mm thick concrete bottom, one brick wall plastered on inside face and 450 x 450mm cast iron medium duty grating and frame including excavation, etc	No	4	
	Carried to Collection			R
	Bill No. 6			
	REFUSE BUILDING			

Item No		Quantity	Rate	Amount
	<u>Fabric Reinforcement</u>			
1	Type 193 fabric reinforcement in concrete surface beds and ramps	m2	170	
	<u>MASONRY</u>			
	<u>Note</u>			
	Bricks to have a minimum compressive strength of 7MPa and are to be solid clay bricks, ie no openings.			
	Mortar for brickwork to be Class 1 (28 days strength and 14.5MPa minimum)			
	<u>Brickwork In (Class 1) Cement Mortar In:</u>			
2	Half brick wall in hollow piers	m2	26	
3	One brick wall	m2	158	
	<u>Sundries</u>			
4	Bag outer face of inner skin of brickwork and apply two coats bituminous paint	m2	198	
5	Turning piece to half brick wide soffit	m	8	
6	80mm Brick mesh reinforcement in walls	m	78	
7	155mm Ditto	m	474	
8	"Secomastic" or other approved mastic sealer in neatly pointing and sealing at junction of timber door frame with facebrick	m	5	
9	2mm Galvanised hoop iron cramp 38mm wide x 450mm girth with one end fixed to back of timber door frame and other end built into brickwork as the work proceeds	No	8	
	Carried to Collection			
	Bill No. 6			
	REFUSE BUILDING			

Item No		Quantity	Rate	Amount
	PVC			
1	225mm Fascia board fixed to wood or steel m	20		
	DOORS			
	Wrot Meranti			
2	44mm Framed batten door size 813 x 2032mm formed of 44 x 108mm styles and top rail, 22 x 108mm middle ledge and braces and 22 x 220mm bottom ledge filled in with 22 x 69mm V-jointed one side boarding and including 6mm plywood panel with commercial veneer on one face of door No	1		
	FRAMED FRAMES, ETC INCLUDING BUILDING IN			
	Wrot Meranti			
3	70 x 108mm Rebated frame m	5		
	Sundries			
	Wrot Meranti			
4	19mm Quadrant bead m	10		
5	38 x 50mm Rebated, splayed and grooved weather board including groove in door m	1		
	IRONMONGERY			
6	102 x 75 x 3mm Two ball bearing butt hinge as Dorma DBB-SS-009 No	3		
7	Lever handle on rose as Dorma CR003-Latch-SS Sets	1		
8	Cylinder sash lock as Dorma D0365-SS No	1		
	Carried to Collection		R	
	Bill No. 6 REFUSE BUILDING			

Item No			Quantity	Rate	Amount
1	65mm Knob cylinder as CISA NP GGMK	No	1		
2	Master key	No	2		
3	Escutcheon as Dorma DCE-002-SS	Pairs	1		
4	Door stop as Dorma DDS-SS-017	No	1		
<u>STRUCTURAL STEELWORK (PROVISIONAL)</u>					
<u>NOTE</u>					
All structural steelwork to comply with the requirements of SANS 2001:CSI and the relevant project specifications					
Dimensions and levels to be verified on site prior to manufacture.					
Any discrepancies found during site measure to be reported to and resolved by the Engineer prior to manufacture.					
All structural steel elements must be inspected by the Engineer prior to transporting to site.					
All bolts must be grade 8.8 unless otherwise specified by the Engineer.					
All welds to be 6mm continuous fillet welds with E700XX electrodes, according to AWS or similar approved by the Engineer					
10% of all fillet welds and 100% of butt welds to be subjected to non-destructive testing					
All hot rolled structural steel members to be grade S355JR, all hollow tube steelwork shall be grade S355 and all cold formed steelwork shall be to SANS 10162 Part 1 with a minimum yield stress of 200MPa and a minimum tensile stress of 365 MPa unless otherwise noted					
Purlins and girts to be pre-galvanised.					
Carried to Collection					R
Bill No. 6 REFUSE BUILDING					

Item No		Quantity	Rate	Amount
	<p>All structural steelwork inclusive of bolts, nuts, washers, plates, connections, etc., other than purlins & girts to be hot dipped galvanised in accordance with SANS 121 or ISO 1461</p> <p>All hot dipped members to be drilled, cut, welded, etc., prior to galvanising.</p> <p>Prices to include for preparation of shop drawings for approval of the Engineer prior to manufacture. A minimum of 7 days must be allowed for checking of shop drawings.</p> <p>Prices to include for fabrication, cutting, drilling, bending, welding, etc., delivery to site, and hoisting up and erecting into position.</p> <p>Prices are also to include for establishing precise positioning of Holding down bolts by means specialist Surveying techniques.</p> <p>Note: The following restrictions are applicable on ground floor slab during construction and erection of structural steel.</p> <p>0-7 days: Concrete curing; no loading on ground floor slab permitted. 7-14 days: Light foot traffic permitted. 14-28 days: Light vehicles <5 ton. 28+ days: Maximum gross crane load during construction = 25 ton (excludes lifting load). Crane outrigger base footings to be on double cross layer of 50 x 228mm timber spreader supports over and area of 1,00 x 1,00m or similar approved by the Engineer to avert damage to concrete ground floor slab. Only tyre cranes permitted on slab. Slab to be cleaned after completion.</p> <p><u>Hot Dipped Galvanised Members</u></p>			
1	175 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t	0.86	
2	50 x 50 x 5mm Angle iron sag rods between roof members	t	0.26	
	Carried to Collection			R
	Bill No. 6 REFUSE BUILDING			

Item No			Quantity	Rate	Amount
1	50 x 50 x 5mm Angle iron gable girt	t	0.10		
2	IPE200 columns	t	0.10		
3	254 x 146 x 31kg/m UB rafters	t	1.04		
4	Extra on last for cutting splayed bottom end for a length of 300mm	No	4		
5	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	0.36		
<u>METALWORK</u>					
<u>HOT DIPPED GALVANISED MILD STEEL</u>					
6	Single gate size 1115 x 2160mm complete with all framework, hinges, etc (see Architects drawing No A208)	No	2		
7	Ditto, but double gate size 5785 x 2160mm (ditto)	No	2		
<u>BRASS</u>					
8	50 x 3mm Water bar including cutting to lengths and embedding in position in concrete	m	1		
<u>ROLLER SHUTTER DOORS</u>					
9	Xpanda galvanised steel chain operated slatted roller shutter door size 3.00 x 2.40m complete with aluminium T bar, 5 no Fenestra vision laths with polycarb inserts, including building into position	No	1		
<u>PLUMBING (PROVISIONAL)</u>					
<u>RAINWATER GOODS</u>					
Carried to Collection					R
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Bill No. 6
REFUSE BUILDING

Item No		Quantity	Rate	Amount
	<u>CONCRETE</u>			
	<u>Testing</u>			
1	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	No 4		
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
2	Surface beds cast in panels including temporary formwork	m3 6		
3	Slabs including beams and inverted beams	m3 13		
4	Pump plinth	m3 2		
	<u>Sundries</u>			
5	3 x 75mm Saw cut joint in top of concrete surface bed reamed to 8 x 35mm	m 13		
6	Sikaflex Pro-3 with backing cord in filling to the above saw cut joint in strict accordance with the manufacturers instructions	m 13		
	<u>Contraction And Expansion Joints</u>			
7	Two layers of 3 Ply Malthoid with graphite grease in between in slip joint between concrete and brick surfaces not exceeding 300mm wide	m 28		
8	20mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 20 x 18mm hinged blocking piece between concrete or brick surfaces	m 43		
9	Remove blocking piece and seal 20 x 18mm cavity with Sikaflex Pro-3 polyurethane sealant	m 43		
	Carried to Collection		R	
	Bill No. 7 FIRE PUMP HOUSE			

Item No			Quantity	Rate	Amount
1	Extra for shoe/bend	No	6		
	<u>Sundries</u>				
2	100mm "Fulbore" side outlet including joint to pipe	No	2		
	<u>PAINTING</u>				
	<u>ON PLASTER, ETC</u>				
	<u>Prepare Surface And Apply One Coat Plascon</u>				
	<u>PP700Primer And Two Coats Plascon Professional</u>				
	<u>Waterbased Superior Low Sheen Acrylic Paint On:</u>				
3	Internal plastered walls	m2	93		
4	Internal plastered ceilings and beams	m2	45		
Carried to Collection					R
Bill No. 7					
FIRE PUMP HOUSE					

Bill No. 7

FIRE PUMP HOUSE

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Bill No. 7

FIRE PUMP HOUSE

Item No	Quantity	Rate	Amount
<u>BILL NO 8</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>Note:</u>			
For Preambles and Specifications refer to:			
1. "Model Preambles for Trades" as published by the Association of South African Quantity Surveyors (2008 Edition).			
2. Where a trade name is specified an equal or other approved trade name may be approved subject to the Client's approval.			
3. Drawings for civil services comprising stormwater drainage, sub soil drainage, sewer reticulation, water reticulation & fire main as prepared by ZNM Civil Engineers and included with the tender documents. The Contractor is to refer to these drawings and make themselves fully acquainted with them when pricing the relevant items in the Bill of Quantities as no extras arising out of their failure to do so will be entertained.			
<u>STORMWATER DRAINAGE</u>			
<u>UPVC Pipes And Fittings (Class 34) Including 100mm Selected Granular Bedding Layer And Selected Fill Material Layer Complying With SANS1200LB. Backfilling, Compacted In Layers To A Mod A.A.S.H.T.O Density Of 95%, Including Excavations In Earth, Risk Of Collapse, Shoring, Keeping Excavations Free From Water, Working Space, Filling In And Ramming With Imported G7 Filling to 95%, Carting Away Surplus Soil, Etc</u>			
1	110mm Pipe laid in and including trenches not exceeding 1,00m deep	m	20
2	160mm Ditto	m	35
Carried to Collection			R
Bill No. 8			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			

Item No		Quantity	Rate	Amount
	<u>Reinforced Concrete Pipes (Class 100D) With Spigot And Socket joints Including 100mm Selected Granular Bedding Layer And Selected Fill Material Layer Complying With SANS1200LB, Backfilling, Compacted In Layers To A Mod A.A.S.H.T.O Density Of 95%, Including Excavations In Earth, Risk Of Collapse, Shoring, Keeping Excavations Free From Water, Working Space, Filling In And Ramming With Imported G7 Filling To 95%, Carting Away Surplus Soil, Etc</u>			
1	450mm Pipe laid in and including trenches not exceeding 1.00m deep	m	135	
2	450mm Pipe laid in and including trenches exceeding 1.00 and not exceeding 2.00m deep	m	329	
3	600mm Ditto	m	357	
4	750mm Ditto	m	192	
5	750mm Pipe laid in and including trenches exceeding 2.00 and not exceeding 3.00m deep	m	42	
	<u>Sundries</u>			
6	Stormwater catchpit size 900mm x 900mm x not exceeding 1.00m deep internally complete (refer to HSC Engineers drawing No CD03)	No	11	
7	Ditto, exceeding 1.00 and not exceeding 2.00m deep internally	No	5	
8	Stormwater manhole size 900mm x 900mm x exceeding 1.00 and not exceeding 2.00m deep internally complete (refer to HSC Engineers drawing No CD03)	No	1	
	Carried to Collection			R
	Bill No. 8			
	PLUMBING AND DRAINAGE (PROVISIONAL)			

Item No			Quantity	Rate	Amount
1	Stormwater manhole size 900mm x 1050mm x exceeding 2.00 and not exceeding 3.00m deep internally complete (refer to HSC Engineers drawing No CD03)	No	1		
2	Kerb inlet catchpit type A size 640mm x 1940mm not exceeding 1.00m deep internally complete (refer to HSC Engineers drawing No CD06)	No	1		
3	Ditto, exceeding 1.00 and not exceeding 2.00m deep internally	No	15		
4	Kerb inlet catchpit type B size 740mm x 3140mm x exceeding 1.00 and not exceeding 2.00m deep internally complete (refer to HSC Engineers drawing No CD06)	No	3		
5	Stormwater outlet headwall complete in all trades and suitable for 750mm diameter pipe (see HSC Engineers drawing No CD06)	No	1		
6	300mm Thick Gabion mattress at edge of headwall (elsewhere measured) size 5000 x 5720mm complete including layerworks, etc (see HSC Engineers drawing No CD06)	No	1		
	<u>The Following In Four Stormwater Relax Tanks (the tender is to refer to HSE Engineers drawing No CD03 when pricing this section)</u>				
7	Excavate in earth for relax tank not exceeding 2.00m deep	m3	173		
8	Risk of collapse exceeding 1.50m deep	m2	154		
9	Allow for keeping excavations free from water		Item		
	Carried to Collection			R	
	Bill No. 8 PLUMBING AND DRAINAGE (PROVISIONAL)				

Item No		Quantity	Rate	Amount
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	173	
2	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	69	
3	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	Sets	4	
4	Concrete 15MPa in blinding	m3	5	
5	Concrete 25MPa in encasement around Pluvia pipes (elsewhere measured)	m3	10	
6	Reinforced concrete 25MPa in tank bottom	m3	8	
7	Ditto, in tank in slab	m3	8	
8	Ditto, in tank in tank walls	m3	14	
9	Float top of concrete slab to a smooth finish with a wood float	m2	39	
10	10mm Closed cell polyethelene pre-formed joint filler not exceeding 300mm wide with 10 x 10mm hinged blocking piece between concrete or brick surfaces	m	50	
11	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3 polyurethane sealant	m	50	
12	Close rough formwork to sides of encasement around Pluvia pipes	m2	16	
Carried to Collection				R
Bill No. 8 PLUMBING AND DRAINAGE (PROVISIONAL)				

Item No			Quantity	Rate	Amount
	<u>Megaflow Geocomposite Panel Drain System</u>				
1	Megaflow MEG 300 drain system size 315 x 40mm including Bidem wrapping laid vertically in and including 150mm wide x 400mm deep trench to falls including backfilling with sand, excavations, carting away surplus material, etc	m	1,564		
2	Extra for bend	No	3		
3	Ditto, junction	No	16		
4	Ditto, joint to catchpit (elsewhere measured)	No	2		
	<u>Kaytech Flo-Drain System Complete</u>				
5	Composite sub soil drain laid in and including trench size 750 x 1200mm deep formed of 160mm diameter Geopipe with 1200mm high Kaytech 525 Flownet above all covered with Bidem A4 including backfilling to trench with imported sand, carting away surplus, etc (see HSC Engineers drawing No C08)	m	840		
6	Connect Flow Drain into stormwater manhole	No	6		
	<u>SOIL AND WASTE WATER DRAINAGE</u>				
	<u>UPVC Pipes And Fittings (Class 34) Including 100mm Selected Granular Bedding Layer And 460mm Selected Fill Material Layer Complying With SANS1200LB, Backfilling, Compacted In Layers To A Mod A.A.S.H.T.O Density Of 95%, Including Excavations In Earth, Risk Of Collapse, Shoring, Keeping Excavations Free From Water, Working Space, Filling In And Ramming Imported G7 Material, Carting Away Surplus Soil, Etc</u>				
7	110mm Pipe laid in and including trenches not exceeding 1.00m deep	m	44		
8	160mm Ditto	m	57		
	Carried to Collection			R	
	Bill No. 8				
	PLUMBING AND DRAINAGE (PROVISIONAL)				

Item No		Quantity	Rate	Amount
	<u>Sundries</u>			
1	Excavate to expose existing 160mm sewer pipe exceeding 1.00 and not exceeding 2.00m deep and cut in to receive new manhole (elsewhere measured) and make good	No 1		
2	Cement Concrete 20MPa in encasing 110mm pipe to a minimum thickness of 100mm all round including any necessary formwork, etc	m 20		
3	Ditto, to 160mm pipe	m 10		
4	Ditto, to 110mm bend	No 17		
5	Ditto, to 160mm bend	No 2		
6	UPVC gulley trap complete with UPVC removable grating including encasing all round with cement concrete 15MPa and with standard precast concrete surround fitted on top including excavation, risk of collapse, fill in and ram, formwork, etc	No 14		
7	110mm Diameter UPVC ABC rodding eye cover and frame including joint to UPVC pipe and encasing in 500 x 500 x 250mm thick concrete	No 1		
8	160mm Ditto	No 2		
9	Sewer manhole size 1.00m diameter x not exceeding 1.00m deep internally complete (refer to HSC Engineers drawing No CD02)	No 4		
10	Ditto, exceeding 1.00 and not exceeding 2.00m deep internally	No 11		
11	Extra over excavations for drain trenches, etc in earth for excavation in intermediate material	m3 800		
	Carried to Collection		R	
	Bill No. 8 PLUMBING AND DRAINAGE (PROVISIONAL)			

Item No		Quantity	Rate	Amount
1	40mm Junction	No 4		
2	50mm Ditto	No 25		
3	110mm Ditto	No 8		
4	40mm Inspection eye junction	No 4		
5	50mm Ditto	No 5		
6	110mm Ditto	No 11		
7	50mm Inspection eye reducing junction	No 4		
8	110mm Ditto	No 19		
	<u>Sundries</u>			
9	50mm UPVC vent valve	No 2		
10	110mm Ditto	No 4		
11	40mm Shower trap as Cobra COB-373SQ/N including joint to pipe	No 7		
12	32 x 40mm Chromium plated bottle trap as Cobra COB-385/35N including joint to pipe and outlet of fitting	No 16		
13	40 x 40mm Ditto, as Cobra COB-365/40N	No 3		
14	50mm PVC "P" trap including joint to pipe and outlet of fitting	No 1		
	Carried to Collection		R	
	Bill No. 8			
	PLUMBING AND DRAINAGE (PROVISIONAL)			

Item No		Quantity	Rate	Amount
1	50mm PVC combination sink "P" trap for double bowl sink including joint to pipe and outlet of fitting	No	3	
<u>SANITARY FITTINGS</u>				
2	Wash hand basin as "Betta Classico WCL008A" or other approved with pedestal as "Betta Classico PCL008A" or other approved complete with waste union, overflow tube attachment, plug and chain, brackets, etc (taps elsewhere measured)	No	16	
3	WC suite comprising pan as "Betta Rapido RT0208A" or other approved, double flap seat, eyc complete (Flushmaster valve elsewhere measured)	No	16	
4	Paraplegic close couple WC suite comprising pan as "Lecico Atlas" or other approved including approved double flap seat", matching 9 litre cistern with side flush valve, flush pipe, etc complete	No	2	
5	"Lecico Atlas BS60" or other approved fireclay wall urinal complete with waste union, brackets, chromium plated sparge pipe, etc	No	3	
6	Stainless steel double bowl sink unit as "Frankie Quinline QLX621-120" or other approved size 1200 x 500mm complete with waste union, plug, chain, etc and fixing on top of timber fitting (elsewhere measured)	No	1	
7	Ditto, but single bow size 900 x 500mml as "Franke Quinline QLX611-120" or other approved	No	3	
<u>WATER SUPPLY</u>				
Carried to Collection				R
Bill No. 8				
PLUMBING AND DRAINAGE (PROVISIONAL)				

Item No		Quantity	Rate	Amount
	<u>UPVC Pipes And Fittings (Class 9 Including 100mm Selected Granular Bedding Layer And 375mm Selected Fill Material Layer Complying With SANS1200LB, Backfilling, Compacted In Layers To A Mod A.A.S.H.T.O Density Of 95%, Including Excavations In Earth, Risk Of Collapse, Shoring, Keeping Excavations Free From Water, Working Space, Filling In And Ramming With Imported G7 Material, Carting Away Surplus Soil, Etc</u>			
1	50mm Pipe laid in and including trenches not exceeding 1,00m deep	m	197	
2	110mm Ditto	m	158	
	<u>Extra For UPVC Fittings:</u>			
3	50mm Flange adaptor	No	2	
4	110mm Ditto	No	2	
5	50mm Straight reducer	No	4	
6	110mm Ditto	No	1	
7	50mm End cap	No	1	
8	110mm Ditto	No	1	
9	50mm Bend	No	10	
10	110mm Bend	No	11	
11	50mm Tee	No	1	
12	110mm Tee	No	5	
	Carried to Collection			R
	Bill No. 8			
	PLUMBING AND DRAINAGE (PROVISIONAL)			

Item No		Quantity	Rate	Amount
1	50mm Reducing tee	No	1	
2	110mm Ditto	No	1	
	<u>UPVC Pipes And Fittings (Class 12 Including 100mm Selected Granular Bedding Layer And 375mm Selected Fill Material Layer Complying With SANS1200LB, Backfilling, Compacted In Layers To A Mod A.A.S.H.T.O Density Of 95%, Including Excavations In Earth, Risk Of Collapse, Shoring, Keeping Excavations Free From Water, Working Space, Filling In And Ramming With Imported G7 Material, Carting Away Surplus Soil, Etc</u>			
3	110mm Pipe laid in and including trenches not exceeding 1,00m deep	m	15	
4	160mm Straight reducer	No	1	
5	110mm Bend	No	1	
	<u>Galvanised Mild Steel Pipes And Fittings Including Wrapping With Canusa Wrapidbond System</u>			
6	80mm Distance piece pipe flanged one side with length of 200mm flange to open end	No	1	
7	80mm Ditto, 500mm long	No	1	
8	100mm Distance piece pipe flanged one side with length of 260mm flange to open end	No	1	
9	80mm puddle pipe flanged on both sides with length of 670mm flange to flange	No	1	
10	100mm Ditto	No	1	
11	80mm VJ flanged adaptor	No	1	
	Carried to Collection			R
	Bill No. 8			
	PLUMBING AND DRAINAGE (PROVISIONAL)			

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Item No			Quantity	Rate	Amount
1	Cement concrete (26MPa) in thrust blocks at bends, tees, etc including necessary excavation, formwork, etc	m3	11		
2	Pipe marker (refer to HSC Engineers drawing No CD01)	No	8		
3	15mm Chromium plated angle regulating valve with 350mm flexi tube as Cobra 232-10/NV0 including joints to pipes	No	34		
4	15mm Brass stopcock including joints to pipes	No	10		
5	22mm Ditto	No	4		
6	50mm Galvanised mild steel flanged AVK RSV gate valve with spindle including joints to pipes	No	2		
7	80mm Ditto	No	1		
8	100mm Ditto	No	1		
9	15mm Brass hose tap as Cobra 108-15 or other approved including joint to pipe	No	2		
10	15mm Chromium plated pillar tap as Cobra Star 111-15/NV" or other approved including joint to pipe	No	32		
11	15mm Chromium plated sink mixer as "Cobra 296CA" or other approved including joints to pipes	No	3		
12	15mm Chromium plated medical mixer as "Cobra COB-NM-851" or other approved including joints to pipes	No	2		
13	15mm Chromium plated under tile stopcock as "Cobra Star 138-15/NV" or other approved including joints to pipes	No	14		
Carried to Collection					R
Bill No. 8 PLUMBING AND DRAINAGE (PROVISIONAL)					

Item No			Quantity	Rate	Amount
1	15mm Chromium plated shower head as "Cobra COB-KP2-6N" or other approved including joint to pipe	No	7		
2	Chromium plated flushvalve and spargepipe as "Cobra COB-FJ2-100/N" or other approved including joints to pipes	No	16		
3	Chromium plated urinal flushvalve as "Cobra COB-FJ6-000" including flush pipe as Cobra FJT5-4 or other approved including joints to pipes	No	3		
4	Saint Gobian Isover insulation to 15mm pipe all in strict accordance with the manufacturers instructions	m	30		
5	22mm Ditto	m	10		
6	Valve box chamber complete (valves, fittings, etc elsewhere measured) (refer to HSC Engineers drawing No CD01)	No	4		
	<u>FIRE SERVICE</u>				
	<u>UPVC Pipes And Fittings (Class 12) Including 100mm Selected Granular Bedding Layer And 375mm Selected Fill Material Layer Complying With SANS1200LB, Backfilling, Compacted In Layers To A Mod A.A.S.H.T.O Density Of 95%, Including Excavations In Earth, Risk Of Collapse, Shoring, Keeping Excavations Free From Water, Working Space, Filling In And Ramming With Imported G7 Material, Carting Away Surplus Soil, Etc</u>				
7	110mm Pipe laid in and including trenches not exceeding 1,00m deep	m	346		
	<u>Extra For UPVC Fittings</u>				
8	110mm Flanged adaptor	No	1		
9	110mm Straight reducer	No	1		
	Carried to Collection			R	
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	PLUMBING AND DRAINAGE (PROVISIONAL)				

Item No		Quantity	Rate	Amount
1	110mm End cap	No 1		
2	110mm Bend	No 19		
3	110mm Tee	No 1		
4	110mm Reducing tee	No 1		
5	110mm Hydrant tee	No 1		
<u>Galvanised Mild Steel Pipes And Fittings Including Wrapping With Canusa Wrapidbond System</u>				
6	80mm Vertical hydrant pipe	m 12		
7	100mm Distance piece pipe flanged one side with length of 300mm flange to open end	No 1		
8	80mm puddle pipe flanged on both sides with length of 670mm flange to flange	No 1		
9	Ditto, but 670mm long	No 1		
10	80mm VJ flanged adaptor	No 1		
11	100mm Ditto	No 1		
12	100mm 90 Degree bend flanged both sides	No 1		
13	80mm 90 Degree butt welded long radius bend	No 7		
14	100 x 80mm Flanged reducing tee	No 1		
Carried to Collection				R
Bill No. 8 PLUMBING AND DRAINAGE (PROVISIONAL)				

Item No		Quantity	Rate	Amount
	<u>Sundries</u>			
1	Cement concrete (25MPa) in thrust blocks at bends, tees, etc including necessary excavation, formwork, etc	m3 10		
2	100mm Galvanised mild steel flanged AVK RSV gate valve with spindle including joints to pipes	No 1		
3	80mm Galvanised mild steel flanged sensus Meistream combination water meter including joints to pipes	No 1		
4	100mm Galvanised mild steel flanged swing type non return valve with 16 bar operating pressure including joints to pipes	No 1		
5	Approved right angle shielded fire hydrant Woodlands type as per SABS 1128-2/SANS 1128-2 including 80mm tapered thread for BSP and 80 x 63mm brass reducer and transition coupling with brass male thread and reducer bush and including joint to pipe	No 7		
6	Concrete fire hydrant pedestal complete with reinforcement, formwork, paint, etc (refer to HSC Engineers drawing No CD01)	No 7		
7	Twin booster pillar unit complete inclusive of all pipes and fittings, concrete pillar encasement, etc. (refer to HSC Engineers drawing No CD01 : price to include all items from the 110mm tee piece upwards)	No 1		
8	Domestic and fire water valve meter chamber complete (valves, fittings, etc elsewhere measured) (refer to HSC Engineers drawing No CD01)	No 1		
	Carried to Collection		R	
	Bill No. 8 PLUMBING AND DRAINAGE (PROVISIONAL)			

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PLUMBING AND DRAINAGE (PROVISIONAL)

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Bill No. 8

PLUMBING AND DRAINAGE (PROVISIONAL)

Item No		Quantity	Rate	Amount
<u>BULK EARTHWORKS AND BUILDING PLATFORMS</u>				
1	Excavate in earth not exceeding 2.00m deep to open face to reduce levels over site to form platforms, etc and deposit on site in spoil heaps	m3	18,728	
2	Ditto, exceeding 2.00 and not exceeding 4.00m deep, ditto	m3	12,485	
3	Extra over for excavation in intermediate material	m3	1,960	
4	Ditto, in hard rock	m3	824	
5	Allow for keeping excavations free from water	Item		
6	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	24,718	
7	Selected filling obtained from excavated material in making up levels over site, etc compacted to 93% Mod AASHTO density	m3	6,496	
8	Earth filling using imported G7 material in making up levels over site and compacted to 93% Mod AASHTO density	m3	12,411	
9	Scarify to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	43,724	
10	Modified AASHTO density test on filling	No	50	
<u>PEDESTRIAN WALKWAYS</u>				
11	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	1,808	
Carried to Collection				R
Bill No. 9				
EXTERNAL WORKS (PROVISIONAL)				

Item No			Quantity	Rate	Amount
1	150mm Thick sub-base course of G5 material supplied by the contractor and compacted under sidewalks, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	223		
2	150mm Thick base course of G5 material supplied by the contractor and compacted under sidewalks, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	223		
3	200 x 100 x 60mm Thick Bosun Urban Grey pavers laid to approved patterns on and including a 25mm thick crusher dust bed including grouting joints after laying all to comply with SABS 1058 and SABS 1200-MJ	m2	1,808		
4	Circular cutting and waste to last	m	157		
5	Extra over pavers for perimeter margin including any necessary thickening	m	1,256		
6	Ditto, circular on plan	m	157		
7	Precast concrete kerb (SABS 927 figure F11) size 125 x 250mm finished smooth from the mould including excavation, backfilling, bedding and laying on a 15 MPa concrete bed, jointing, pointing, etc and continuous cement concrete haunching at back	m	308		
8	Ditto, circular on plan to a radius exceeding 4m	m	13		
9	Ditto, circular on plan to a radius not exceeding 4m	m	6		
	<u>ROADWAYS AND PARKING AREAS</u>				
10	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	12,957		
	Carried to Collection			R	
	Bill No. 9				
	EXTERNAL WORKS (PROVISIONAL)				

Item No			Quantity	Rate	Amount
1	150mm Thick sub-base course of G5 material supplied by the contractor and compacted under roads, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	1,944		
2	150mm Thick base course of G5 material supplied by the contractor and compacted under roads, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	1,765		
3	100mm Thick gravel wearing layer (19mm stone) supplied by the contractor and compacted to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	91		
4	Bidem A4 geofabric laid under gravel wearing layer	m2	903		
5	Allow for preparing and curing set of three concrete test cubes, each size 150 x 150 x 150mm and pay all cost of transport to an approved mechanical laboratory and all testing charges	Sets	115		
6	Reinforced cement concrete 30MPa/19mm stone in roads	m3	1,849		
7	Broom drag finish on top of concrete	m2	9,244		
8	Form neat junction of new 200mm thick concrete road with existing ELIDZ premix road	m	49		
9	3 x 65mm Saw cut with top reamed out to 8 x 35mm in top of concrete	m	2,639		
10	8 x 35mm Saw cut in top of concrete	m	769		
Carried to Collection					R
Bill No. 9 EXTERNAL WORKS (PROVISIONAL)					

Item No			Quantity	Rate	Amount
1	Clean out 8 x 35mm saw cut and seal with Sika Pro - 3 polyurethane sealant including Sika 3N primer, backing cord, etc., in strict accordance with the manufacturers instructions	m	3,408		
2	10mm Closed cell expanded polyethelene pre-formed joint filler not exceeding 300mm high with 10 x 10mm hinged blocking piece between concrete roads and precast concrete kerbs	m	1,183		
3	Remove hinged blocking piece and seal 10 x 10mm cavity with Sika Pro -3 polyurethane sealant including Sika 3N primer, backing cord, etc., in strict accordance with manufacturers instructions	m	1,183		
4	Form construction joint 200 mm high using a diamond dowel system comprising 6mm thick x 115 x 115mm hot dipped galvanised plates at 450mm centres including all necessary formwork, temporary pegs, stays, supports, bond breaking compound, bitumen to one concrete face, etc (refer to detail on HSC Consulting drawing NO CD04)	m	769		
5	Formwork to edge, riser, etc not exceeding 300mm high	m	20		
6	Type 500 mesh reinforcement in concrete roads, ramps, etc	m2	1,065		
7	80mm Thick type S-A class 25 natural grey interlocking pavers laid to approved patterns, margins, etc., on and including a 25mm thick crusher dust bed including grouting joints after laying all to comply with SABS 1058 and SABS 1200-MJ	m2	1,488		
8	Extra over 80mm interlocking pavers for perimeter margin including any necessary thickening	m	205		
9	300 x 300mm In situ concrete (25Mpa) edge block including excavations, concrete, formwork, etc	m	24		
Carried to Collection					R
Bill No. 9					
EXTERNAL WORKS (PROVISIONAL)					

Item No			Quantity	Rate	Amount
1	Precast concrete barrier kerb (SABS 927 figure 3) size 150 x 300mm finished smooth from the mould including excavation, backfilling, bedding and laying on a 15 MPa concrete bed, jointing, pointing, etc and continuous cement concrete haunching at back	m	1,414		
2	Ditto, circular on plan to a radius exceeding 4m	m	117		
3	Ditto, circular on plan to a radius not exceeding 4m	m	86		
4	Standard stop sign complete including pole, concrete base, excavation, etc	No	3		
5	Ditto, but yield sign	No	4		
6	Ditto, but speed restriction sign	No	4		
7	Ditto, but disabled parking sign	No	1		
8	Prepare surface and apply bitumen based roadmarking paint to line precast paved or concrete roadway 100mm wide	m	995		
9	Ditto, but 150mm wide	m	24		
10	Ditto, but 300mm wide	m	10		
11	Ditto, but 600mm wide	m	28		
12	Ditto, but painted arrow sign facing one direction 4.00m long	No	5		
13	Ditto, but painted arrow sign facing two directions 4.00m long	No	1		
Carried to Collection					R
Bill No. 9 EXTERNAL WORKS (PROVISIONAL)					

Item No			Quantity	Rate	Amount
1	Ditto, but painted disabled parking bay sign 2.00m long	No	1		
2	Ditto, but painted sign 2.00m high to read "STOP"	No	3		
3	Prepare surface and apply bitumen based roadmarking paint to top of precast paved or concrete roadways in the form of one numeral 75mm high	No	9		
4	Ditto, but two numerals each 75 mm high	No	56		
<u>SIGNAGE WALL AT MAIN GATE ENTRANCE</u>					
5	Excavate for surface trenches not exceeding 2.00m deep	m3	7		
6	Extra over for excavation in intermediate material	m3	1		
7	Ditto, in hard rock	m3	1		
8	Risk of collapse not exceeding 1.50m deep to trench excavations	m2	18		
9	Allow for keeping excavations free from water		Item		
10	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	7		
11	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	5		
12	Cement concrete 15MPa/19mm stone in blinding under footings cast against excavated surfaces	m3	1		
Carried to Collection					R
Bill No. 9					
EXTERNAL WORKS (PROVISIONAL)					

Item No			Quantity	Rate	Amount
1	Reinforced cement concrete 30MPa/19mm stone in footings cast against excavated surfaces	m3	2		
2	Ditto in cavity of hollow wall below ground level	m3	1		
3	Steel reinforcing bars of various diameters to concrete footings	t	0.40		
4	330mm Hollow wall formed of two half brick skins including butterfly wire ties	m2	16		
5	440mm Hollow wall formed of one half brick skin and one one-brick skin including butterfly wire ties	m2	11		
6	80mm Brick mesh reinforcement in walls	m	157		
7	155mm Brick mesh reinforcement in walls	m	39		
8	Turning piece to flat brick arch 110mm wide	m	6		
9	Extra over brickwork for faced brickwork in selected Corobrik Midrand 21 (29Mpa) Pampas Satin FBS facebricks	m2	37		
10	Facebrick (as last) roller course 450mm wide including pointing top and two sides	m	8		
11	DPC 375 micron in walls	m2	4		
12	External plaster to walls	m2	12		
13	Ditto, in narrow widths	m2	1		
14	Prepare surface and apply one coat primer and two coats Wall n All to external plastered walls	m2	13		
Carried to Collection					R
Bill No. 9 EXTERNAL WORKS (PROVISIONAL)					

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EXTERNAL WORKS (PROVISIONAL)

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EXTERNAL WORKS (PROVISIONAL)

Item No		Quantity	Rate	Amount
1	160mm Pipe laid in and including trenches not exceeding 1,00m deep	m	10	
2	Ditto, but set of two 160mm pipes	m	234	
3	Ditto, but set of four 160mm pipes	m	72	
4	Extra for 50mm slow bend	No	4	
5	110mm Ditto	No	8	
6	160mm Ditto	m	10	
7	Manhole size 0.60 x 0.60 x 1.00m deep complete (see Electrical drawing No 3244-ELEC-01)	No	12	
8	Ditto, size 0.80 x 0.80 x 1.00m deep	No	9	
9	Ditto, size 1.20 x 1.20 x 1.00m deep	No	6	
	<u>The Following In Plinths For Mini Subs</u>			
10	Excavate in earth not exceeding 2.00m deep to reduce levels	m3	11	
11	Risk of collapse not exceeding 1.50m deep to excavations	m2	18	
12	Allow for keeping excavations free from water	Item		
13	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	11	
	Carried to Collection			
	Bill No. 10			
	PROVISIONAL SUMS			

Item No		Quantity	Rate	Amount
1	Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density	m3	2	
2	Scarify to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	11	
3	Cement concrete 25Mpa in plinth bottom	m3	2	
4	Formwork to edge not exceeding 300mm high	m	11	
5	Reinforcing mesh ref 193 in plinth	m2	11	
6	One brick wall	m2	18	
7	155mm Brick mesh reinforcement in walls	m	81	
8	External plaster to walls	m2	9	
9	Ditto, in narrow widths	m2	3	
10	Prepare surface and apply one coat primer and two coats Wall n All to external plastered walls	m2	11	
	<u>Note:</u>			
	Soft rock means all rock excavation in "intermediate excavation" as described in 3.1.2 2b) of SABS 1200			
	Hard rock means all rock excavation in "hard rock excavation" as described in 3.1.2 2c) of SABS 1200			
11	Extra over excavations for sleeve pipe trenches, etc in earth for excavation in soft rock	m3	50	
	Carried to Collection			R
	Bill No. 10			
	PROVISIONAL SUMS			

Item No			Quantity	Rate	Amount
1	Ditto, in hard rock	m3	25		
	<u>Note:</u> In remeasuring the cubic quantity of extra for excavations in soft, hard rock, etc for drain trenches, etc the following basis shall apply: Sleeve pipe trenches - Trenches not exceeding 1,00m deep shall be taken 0,60m wider than the internal diameter of the pipe. This width shall be increased by 100mm for each successive depth of 1,00m to a maximum of 1,00m wider than the internal diameter of the pipe. Manholes - Manholes shall be taken to the full extent in width and depth and no more. <u>HVAC Comprising Air Conditioning, Ventilation, Fire Detection, Etc</u>				
2	Provide the sum of R 4 300 000-00 (four million three hundred thousand rand) for HVAC including Air Conditioning, Ventilation, Fire Detection, etc., supplied and fixed complete		Item		4,300,000.00
3	Allow for profit		Item		
4	Allow for attendance		Item		
	<u>Builders Work In Connection With Air Conditioning</u>				
5	Concrete 25MPa in plinths	m3	2		
6	Formwork to edge, riser, etc not exceeding 300mm high	m	12		
7	Type 617 mesh reinforcement in concrete footings	m2	6		
8	75mm PVC sleeve pipe in ground including excavations, etc	m	48		
	Carried to Collection			R	
	Bill No. 10 PROVISIONAL SUMS				

Item No			Quantity	Rate	Amount
1	Extra for 75mm slow bend	No	12		
2	Leave or form opening in 360mm cavity wall size 250 x 250mm	No	12		
3	Form recess in brick wall for fire alarm control panel size 500 x 300mm	No	2		
4	Make good chase in plaster wall for 20mm conduit	m	32		
5	Ditto, 25mm conduit	m	64		
6	Ditto, 50mm diameter draw box	No	16		
7	Ditto, 100 x 100mm back box	No	16		
<u>Fire Protection, Bulk Water And Wet Services</u>					
8	Provide the sum of R 20 000 000-00 (twenty million rand) for Fire Protection, Bulk Water and Wet Services supplied and fixed complete		Item		20,000,000.00
9	Allow for profit		Item		
10	Allow for attendance		Item		
<u>Fibreglass Gutters And Geberit Pluvia Rainwater System</u>					
11	Provide the sum of R3 000 000-00 (three million rand) for Fibreglass Gutters And Geberit Pluvia Rainwater System		Item		3,000,000.00
12	Allow for profit		Item		
Carried to Collection				R	
Bill No. 10					
PROVISIONAL SUMS					

Item No		Quantity	Rate	Amount
1	Allow for attendance	Item		
	<u>Joinery Installation</u>			
2	Provide the sum of R 250 000-00 (ftwo hundred and fifty thousand rand) for Joinery Installation supplied and fixed complete	Item		250,000.00
3	Allow for profit	Item		
4	Allow for attendance	Item		
	<u>Signage</u>			
5	Provide the sum of R 175 000-00 (one hundred and seventy five thousand rand) for Signage supplied and fixed complete	Item		175,000.00
6	Allow for profit	Item		
7	Allow for attendance	Item		
	<u>Balustrading And Handrails</u>			
8	Provide the sum of R 325 000-00 (three hundred and twenty five thousand rand) for Balustrading and Handrails supplied and fixed complete	Item		325,000.00
9	Allow for profit	Item		
10	Allow for attendance	Item		
	<u>Bollards And Column Protectors</u>			
11	Provide the sum of R213 000-00 (two hundred and thirteen thousand rand) for Bollards And Column Protectors supplied and fixed complete	Item		213,000.00
Carried to Collection				R
Bill No. 10 PROVISIONAL SUMS				

Bill No. 10
PROVISIONAL SUMS
COLLECTION

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Bill No. 10
PROVISIONAL SUMS

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>TRADE PREAMBLES</u></p> <p><u>Trade Preambles</u></p> <p><u>For Trade Preambles refer to 'Model Preambles for Trades' (2008 edition) for the full descriptions of material to be used and work to be done in this Bill</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary Preambles</u></p> <p><u>Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent each item</u></p> <p><u>Prior to pricing the Principal Contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, Covid 19 and any other relevant Regulations and Standards as well as project specific Health & Safety specifications</u></p> <p><u>The quantities contained herein serve as a guideline only to determine if the contractor has sufficiently priced for the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications. Where quantities are missing the contractor is to insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications</u></p>			
Carried to Collection			R
<p>Bill No. 11</p> <p>OCCUPATIONAL HEALTH AND SAFETY</p>			

Item No		Quantity	Rate	Amount
	<u>All Costs to comply with the obligations and demands of the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, and any other other relevant Regulations and Standards as well as project specific Health & Safety Specifications not listed or mentioned below must be priced in Preliminaries Section of the Bills of Quantities ' Clause 7.2 Health and Safety no additional claims in respect of compliance with the above mentioned will be considered</u>			
	<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
	<u>Full time Safety Officer</u>			
1	Full time attendance on site of a SACPCMP-registered construction health and safety officer or manager from the start of construction until the end of project handover.	Mnths	10.00	
	<u>General</u>			
2	First aiders and first aid kits	Item		
3	Medical certificates of fitness Medical examination of all employees and certification of fitness by an occupational medicine practitioner. Pre-employment, annual and exit medical examination is required	Item		
4	Emergency Equipment based on the risk exposure and emergency rescue. stretchers, neck brace, spill kits, lifting and lowering hosting equipment of the injured	Lmp S	1.00	
5	Competent inspectors for equipment such as examples scaffolding inspectors and lifting machine inspector	Lmp S	1.00	
6	Mandatory training such as risk assessments, legal liability/OHS Act, incident investigation	Lmp S	1.00	
	Carried to Collection			R
	Bill No. 11			
	OCCUPATIONAL HEALTH AND SAFETY			

Item No			Quantity	Rate	Amount
1	Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific risk assessments: • Hard Hats • Overall/work suit (100% Cotton) • Safety boots/shoes (Steel-Toe) • Safety gumboots (Steel-Toe) • Ear Plugs/Muffs • Dust Mask(at least FF2 type) • Respirators • Safety goggles • Hand gloves •Reflector vests • Other		Item		
2	Barricading and hoarding for fall arrest, SANS approved safety netting (orange color with minimum of 1,2 meters high)	Lmp S	1.00		
3	Waste bins on site and regular removal		Item		
4	Construction signage, including the sign for the construction work permit number		Item		
5	Safe scaffolding	Lmp S	1.00		
6	Safe lifting equipment for lifting and lowering pipes	Lmp S	1.00		
7	Occupational hygiene measurement and/or AIA certification, where required Measurement or certification of risk exposure	Lmp S	1.00		
8	Employee facilities drinking water, change facility, personal lockers, wash facilities, eating facilities) considering toilet and rest facilities along the road alignment	Lmp S	1.00		
9	Dust control measure for the prevention of dust nuisance		Item		
<u>HEALTH AND SAFETY EDUCATION</u>					
Carried to Collection					R
Bill No. 11 OCCUPATIONAL HEALTH AND SAFETY					

Item No		Quantity	Rate	Amount
1	Provide for rehabilitation on completion of site areas and temporary access routes not covered by construction or landscaping specifications. i.e. grass seeding/hydro seeding, maintenance of alien vegetation	Item		
2	Provide for stockpiling of topsoil for re-use	Item		
3	Provide for a responsible person to prepare and update Method Statements, conduct regular inspections, maintain records, and report to the Principal Agent	Item		
<u>COMPULSORY BREAKDOWN FOR THE ADJUSTMENT OF OHS REQUIREMENTS</u>				
<u>Compulsory breakdown for the adjustment of OHS and Covid 19 requirements</u>				
Value related (R_____)				
Fixed related (R_____)				
Time related (R_____)				
Carried to Collection				R
Bill No. 11				
OCCUPATIONAL HEALTH AND SAFETY				

Bill No. 11
OCCUPATIONAL HEALTH AND SAFETY
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[illegible]

C2.3 SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

C2.3 DPW-23 (EC): Schedule for Imported Materials and Equipment

Project title:	CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ
Tender no:	EB/NW1/10/24/Z1A

This schedule should be completed by the tenderer. (Attach additional pages if more space is required)

Item	Material / Equipment	Rand (R) (Excl. VAT)
1.		R
2.		R
3.		R
4.		R

The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only. Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Principal Agent / Engineer of the Department of Public Works within 60 (sixty) days from the date of acceptance of the tender. No adjustment of the local VAT amount, nor the contractor's profit, discount, mark-up, handling costs, etc. shall be allowed.

These net amounts will be adjusted as follows:

FORMULA:

The net amount to be added to or deducted from the contract sum: $A = V \times (\frac{Z}{Y} - 1)$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item

Y = exchange rate at the closing date of tender submission

Z = exchange rate on the date of payment.

SIGNED FOR THE TENDERER:	 NAME OF TENDERER	
..... SIGNATURE: TENDERER	 SIGNATURE: WITNESS 1	
NAME:		NAME:	
CAPACITY: SIGNATURE: WITNESS 2	
DATE:		NAME:	

Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

C2.4: GUARANTOR PROFORMA LETTER OF INTENT

Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

Part C2.4: Guarantor Proforma Letter of Intent

C2.4: Guarantor Proforma Letter of Intent

CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ

TENDER No. EB/NW1/10/24/Z1A

The following letter is to be reproduced on the Guarantor's company letterhead

EAST LONDON INDUSTRIAL DEVELOPMENT ZONE SOC LTD

Lower Chester Road

EAST LONDON

5201

Date:

Attention: Mr G. Whittaker

Dear Sir,

CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ - TENDER NO. EB/NW1/10/24/Z1A

I/we the undersigned undertake to provide an unaltered JBCC Construction Guarantee on behalf of(the Contractor) for the amount of R (in words) in favour of the East London Industrial Development Zone SOC Ltd should (the Contractor) be awarded the ELIDZ: Construction of a Manufacturing Facility in Zone 1A of the ELIDZ.

Yours faithfully,

.....

Guarantor

Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

C2.5: FORM OF OFFER AND ACCEPTANCE

C2.5: Form of Offer and Acceptance

Project title:	CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ
Contract No:	EB/NW1/10/24/Z1A

A. OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ**

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

Rand (in words):	
Rand in figures:	R

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the contract data.

THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY:

(cross out block which is not applicable)

Company or Close Corporation:	OR	Natural Person or Partnership:
		Whose Identity Number(s) is/are:
		Whose Income Tax Reference Number is/are:

AND WHO IS (if applicable):

Trading under the name and style of:	
--------------------------------------	--

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

AND WHO IS (if applicable):

Represented herein, and who is duly authorised to do so, by:	Note: A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.
Mr/Mrs/Ms:	
In his/her capacity as:	

SIGNED FOR THE TENDERER:

Name of Representative	Signature	Date

WITNESSED BY:

Name of Witness	Signature	Date

GUARANTEE OFFERED:

Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the Form of Guarantee included in Part C2.4. No alterations or amendments of the wording of the pro-forma will be accepted.

DOMICILIUM CITANDI ET EXECUTANDI:

The Tenderer elects as its domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served, as (physical address):

Domicilium Citandi Et Executandi:

Other Contact Details of the Tenderer are:

Postal address:			
Code:		Tel:	
Cell:		Fax:	
Email:			

B. ACCEPTANCE

By signing this part of this form of offer and acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderer's offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- C1 Agreement and contract data
- C2 Pricing data
- C3 Scope of work
- C4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The Tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect, if delivered by hand on the day of delivery, or if delivered by courier within two working days after submission by the Employer to the courier services for a door-to-door delivery to the Tenderer, provided that the Employer notifies the Tenderer of the tracking number within 24 hours of such submission. Unless the Tenderer (now Contractor) within seven working days of the date of such submission notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

FOR THE EMPLOYER:

Name of Signatory	Signature	Date

Name of Organisation:	East London Industrial Development Zone SOC Ltd
Address of Organisation	Lower Chester Road, Sunnyside, East London, 5201

WITNESSED BY:

Name of Witness	Signature	Date

Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

SCHEDULE OF DEVIATIONS:

1. Subject:

Detail:

2. Subject:

Detail:

3. Subject:

Detail:

By the duly authorised representatives signing this agreement, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

C2.6: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Tenderer ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

Part C2.6: Declaration Certificate for Local Production and Content for Designated Sectors

C2.6: SBD 6.2 DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two-stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

1.6. A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility(close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour or intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

3. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
National Treasury Designated Sectors Instruction No. 15 of 2016/2017 Stipulated Minimum Threshold of Conversion Processes for Local Production and Content for Steel Products in Components for Construction	100% as set out in Table 1A and 1B

4. Does any portion of the services, works or goods offered have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

- 4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?

(Tick applicable box)

YES		NO	
-----	--	----	--

- 5.1. If yes, provide the following particulars:

- (a) Full name of auditor:
- (b) Practice number:
- (c) Telephone and cell number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

6. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

.....
NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thdti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity),
the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
 - (ii) the declaration templates have been audited and certified to be correct.
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

C2.7: DECLARATION FOR 30% SMME SUB- CONTRACTING AND TARGETED PERCENTAGE PER CIDB GROUP

C2.7 DECLARATION FOR 30% SMME SUB-CONTRACTING AND TARGETED PERCENTAGE PER CIDB GROUP

TARGETED PERCENTAGES PER CIDB GROUP

CIDB Grading irrespective of trade	Max CIDB Value Range	Minimum Targeted Percentage Allocation Appportioned to the 30%	Percentage Goal Tendered	Estimated Rand Value (R) Including VAT
Grade 1-2	R 1 000 000	1%	%	R
Grade 3	R 3 000 000	1%	%	R
Grade 4	R 6 000 000	3%	%	R
Grade 5	R 10 000 000	5%	%	R
Grade 6	R 20 000 000	6%	%	R
Grade 7	R 60 000 000	14%	%	R
Total % SMME Goal Tendered ⁽¹⁾		30%	%	R

Note (1): *Bidders that do not meet minimum SMME 30% subcontracting requirements will be deemed to be non-responsive and shall be disqualified.

Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

CONTRACTOR DECLARATION WITH REGARDS TO 30% SMME SUB-CONTRACTING:

I / We tender the following SMME participation targets of:

Tender Amount Including VAT	R
SMME Value Including VAT	R
Percentage of SMME to Tender Amount ⁽¹⁾	%

Note (1): **Bidders that do not meet minimum SMME 30% subcontracting requirements will be deemed to be non-responsive and shall be disqualified.*

SIGNED FOR THE TENDERER: NAME OF TENDERER
..... SIGNATURE: TENDERER SIGNATURE: WITNESS 1
NAME:	NAME:
CAPACITY: SIGNATURE: WITNESS 2
DATE:	NAME: