



Tender

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

AT THE

EAST LONDON INDUSTRIAL DEVELOPMENT ZONE

CONTRACT NO: EB/DRG/11/20/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

Pulana Baxter and Associates Quantity Surveyors
30 Chamberlain Road, Berea, East London, 5241
Contact Person: Mr. Inga Jakavula
Tel: 043 – 721 0984
Email: inga@pba.co.za

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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/DRG/11/20/Z1A
Works description	The scope of comprises of a new single storey, steel factory building with undercover loading with one dock leveler, an off-loading area and a single storey steel framed office block. There is an external guardhouse and waste storage area

A 2.0 Site [1.1]

Erf / stand number	Erf 60948/60950 – 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	Intsika Architects (Pty) Ltd		
Legal entity of above	Intsika Architects (Pty) Ltd	Contact person	Rob Gillard
Practice number	PI 3725	Telephone number	043 – 748 2949
		Mobile number	082 872 8748
Country	South Africa	E-mail	rob@intsika.com
Postal address	32 Summit Road, Beacon Bay, East London		
		Postal code	5201
Physical address	1 st Floor Leadwood House, Cedarsquare, Bonza Bay, East London		
		Postal code	5201

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	Intsika Architects (Pty) Ltd		
Legal entity of above	Intsika Architects (Pty) Ltd	Contact person	Rob Gillard
Practice number	PI 3725	Telephone number	043 – 748 2949
		Mobile number	082 872 8748
Country	South Africa	E-mail	rob@intsika.com
Postal address	32 Summit Road, Beacon Bay, East London		
		Postal code	5201
Physical address	1 st Floor Leadwood House, Cedarsquare, Bonza Bay, East London		
		Postal code	5201

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	510	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	6070
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	ZNM Consulting Engineers (Pty) Ltd		
Legal entity of above	ZNM Consulting Engineers (Pty) Ltd	Contact person	Mzukisi Mashaba
Practice number	1090	Telephone number	087 350 4035
		Mobile number	079 895 0558
Country	South Africa	E-mail	mzukisi@znmeng.co.za
Postal address	8a Bonza Bay Road, Beacon Bay, East London		
		Postal code	5241
Physical address	8a Bonza Bay Road, Beacon Bay, East London		
		Postal code	5241

A 9.0 Agent [1.1; 6.2]

Discipline	Civil Engineer
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Name	CSE Consulting (Pty) Ltd		
Legal entity of above	CSE Consulting (Pty) Ltd	Contact person	Phillip Koch
Practice number	655	Telephone number	043 – 726 3565
		Mobile number	079 878 5142
Country	South Africa	E-mail	el@cse-consult.co.za
Postal address	PO Box 15825, Beacon Bay, East London		
		Postal code	5205
Physical address	7B Derby Road, Berea, East London		
		Postal code	5241

A 10.0 Agent [1.1; 6.2]

Discipline	Electrical Engineer
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Name	Carifro Consulting Engineers CC		
Legal entity of above	Carifro Consulting Engineers CC	Contact person	David Carr
Practice number	7	Telephone number	043 – 743 8266
		Mobile number	076 865 9044
Country	South Africa	E-mail	david@carifro.com
Postal address	PO Box 11148, Southernwood, East London		
		Postal code	5213
Physical address	4 – 6 Belgrave Road, Southernwood, East London		
		Postal code	5201

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	Carifro Consulting Engineers CC		
Legal entity of above	Carifro Consulting Engineers CC	Contact person	Mike Rivarola
Practice number	7	Telephone number	043 – 743 8266
		Mobile number	082 900
Country	South Africa	E-mail	mikeriv@carifro.com
Postal address	PO Box 11148, Southernwood, East London		
		Postal code	5213
Physical address	4 – 6 Belgrave Road, Southernwood, East London		
		Postal code	5201

A 12.0Agent [1.1; 6.2]

Discipline	SHEQ Consultants – appointment in progress
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Name	NA		
Legal entity of above	NA	Contact person	NA
Practice number	NA	Telephone number	NA
		Mobile number	NA
Country	NA	E-mail	NA
Postal address	NA		
		Postal code	NA
Physical address	NA		
		Postal code	NA

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 (Sixth Edition (Revised), 1999.
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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:	
Discipline:	Civil	Issued:	
Discipline:	Structural	Issued:	
Discipline:	Air-conditioning and Ventilation	Issued:	
Discipline:	Fire Protection	Issued:	

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

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]

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	

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

Yes/no?		If yes, description 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		

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

Supply of free issue [12.1.10]	Yes/no?	No
If yes, description	NA	

B 8.0 Selected subcontractors [15.0]

Yes/no?	Yes	If yes, description of specialisation
Specialisation 1	Electrical Installation	
Specialisation 2	Sprinkler Installation	
Specialisation 3	Fire Protection Installation (hydrants, hose reels and extinguishers)	
Specialisation 4	Fire Detection Installation	
Specialisation 5	Dock leveler Installation	

B 9.0 Direct contractors [16.0]

Yes/no?	Yes	If yes, description of extent of work
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	Factory Production, Packaging and Warehouse Areas, incl. Dock Leveler, Logistics Office and Compressor Room, including covered loading and off-loading canopies (incl. finishes and all electrical / mechanical installations)	
Section 2	Offices, Canteen, Change Rooms / Ablutions and Workshop (incl. finishes and all electrical / mechanical installations)	
Section 3	Refuse Facility, Guardhouse, Hardstands, Civil Services and Remainder of the Works	
Section 4	NA	
Section 5	NA	
Section 6	NA	
Section 7	NA	
Section 8	NA	
Section	3	Remainder of the works

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

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

or where **sections** are applicable

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	06 September 2021	113 Working Days	10 March 2022 (Beneficial Occupation by 10 February 2022)	R 20 000.00
Section 2	06 September 2021	153 Working Days	12 May 2022	R 20 000.00
Section 3	06 September 2021	177 Working Days	16 June 2022	R 20 000.00
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 manuals etc. related to the works as listed: Electrical Installation, Sprinkler Installation, Fire Detection Installation, Air-conditioning Equipment Installation.

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?		
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		

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

Handover of site in stages - specific requirements [P4.1]		NA		
Enclosure of the works - specific requirements [P4.2]		<p>Hoardings and Temporary Fencing prescribed by the Employer and have been measured in the Provisional Bills of Quantities.</p> <p>All other hoarding must be priced for under this clause in the Preliminaries Bill and no claims for additional hoardings and temporary fencing will be entertained.</p> <p>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 'Bonnox' fencing covered with shade cloth to the satisfaction of the principal agent. The contractor shall be responsible for keeping such areas in a clean, sanitary and orderly condition.</p>		
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]				
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]		NA		
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.

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

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> <p>CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion.</p> <p>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.</p> <p>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.</p> <p>DIRECT CONTRACTOR: An entity appointed under separate agreement by the employer to do work on site, including its subcontractors, prior to practical completion.</p> <p>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.</p> <p>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.</p> <p>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, <i>inter alia</i>, 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.</p> <p>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 <i>inter alia</i>, 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.</p>	
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

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

	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 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) Rev dated 10 February 2020, 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 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:
	The expiry date for the security to be provided in terms of clause 11.1.1 and 11.1.2 shall be one hundred and eighty (180) calendar days after the date for practical completion for the work as a whole.
	Should the terms of the construction guarantee have an expiry date, add the following clause after

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

	<p>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
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 (10) 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 dated 10 February 2020 included in Part C3.4 in Envelope A: Volume 1 of 2 of these tender documents
13.0	SETTING OUT

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

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 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 at 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...

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

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 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:

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

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 request from the contractor [15.6; 12.1.12]
26.5.4	Expense and loss caused by a direct contractor [22.4]
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	02 July 2021	Time	12:00am
Tender submission address	Tender Box at the offices of East London Industrial Development Zone SOC Ltd Corporate Head Office, Lower Chester Road, East London		
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	
Advance payment, subject to a guarantee for advance payment [11.2.2; 11.3]	Amount	

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

Year 1 contractor annual holiday period	start date	10 December 2021	end date	10 January 2022
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)

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

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	<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:

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

Amount in words:

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 (Sixth Edition (Revised), 1999.
- 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)

A1 DEFINITIONS AND INTERPRETATION

Clause 1.0

Clause 1.0 is amended by the following:

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.

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

Clause 1.0 is amended by the addition of the following:

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

1 Fixed:_____ Value related:_____ Time related:_____

Item

A2 LAW, REGULATIONS AND NOTICES

Clause 2.0

Clause 2.0 is amended by the addition of the following:

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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:

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;

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

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

1 Fixed: _____ Value related: _____ Time related: _____

Item

A3 OFFER AND ACCEPTANCE

Clause 3.0

2 Fixed: _____ Value related: _____ Time related: _____

Item

A4 CESSION AND ASSIGNMENT

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1	<u>Clause 4.0</u> Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>A5 DOCUMENTS</u>			
	<u>Clause 5.0</u>			
2	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>A6 EMPLOYER'S AGENT</u>			
	<u>Clause 6.0</u>			
3	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>A7 DESIGN RESPONSIBILITY</u>			
	<u>Clause 7.0</u>			
4	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>INSURANCES AND SECURITIES</u>			
	<u>A8 WORKS RISK</u>			
	<u>Clause 8.0</u>			
5	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>A9 INDEMNITIES</u>			
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1	<p><u>Clause 9.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A10 INSURANCES</u></p> <p><u>Clause 10.0</u></p> <p><u>Clause 10.0 is amended by the addition of the following clauses:</u></p> <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>Carried to Collection</p> <p>Bill No. 1 PRELIMINARIES MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A</p>	Item		
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(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.

(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.

(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.

(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.

(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.

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(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.

10.7 High risk insurance

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:

10.7.1 Damage to the works

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.

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.

10.7.2 Injury to persons or loss of or damage to property

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.

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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.

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.

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 .

1 Fixed:_____ Value related:_____ Time related:_____

Item

A11 SECURITIES

Clause 11.0

2 Fixed:_____ Value related:_____ Time related:_____

Item

EXECUTION

A12 OBLIGATIONS OF THE PARTIES

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Clause 12.0

- 1 Fixed: _____ Value related: _____ Time related: _____

Item

A13 SETTING OUTClause 13.0

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.

- 2 Fixed: _____ Value related: _____ Time related: _____

Item

A14 NOMINATED SUBCONTRACTORSClause 14.0

- 3 Fixed: _____ Value related: _____ Time related: _____

Item

A15 SELECTED SUBCONTRACTORSClause 15.0

- 4 Fixed: _____ Value related: _____ Time related: _____

Item

A16 DIRECT SUBCONTRACTORSClause 16.0

- 5 Fixed: _____ Value related: _____ Time related: _____

Item

A17 CONTRACT INSTRUCTIONS

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1	<p><u>Clause 17.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>COMPLETION</u></p> <p><u>A18 (INTERIM COMPLETION = N/S SUBCONTRACT AGREEMENT)</u></p> <p><u>Clause 18.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A19 PRACTICAL COMPLETION</u></p> <p><u>Clause 19.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A20 COMPLETION IN SECTIONS</u></p> <p><u>Clause 20.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A21 DEFECTS LIABILITY PERIOD AND FINAL COMPLETION</u></p> <p><u>Clause 21.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A22 LATENT DEFECTS LIABILITY PERIOD</u></p>	Item		
2		Item		
3		Item		
4		Item		
5		Item		
	Carried to Collection		R	
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1	<p><u>Clause 22.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A23 REVISION OF THE DATE FOR PRACTICAL COMPLETION</u></p> <p><u>Clause 23.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A24 PENALTY FOR LATE OR NON-COMPLETION</u></p> <p><u>Clause 24.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>PAYMENT</u></p> <p><u>A25.0 PAYMENT</u></p> <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>	Item		
2		Item		
3		Item		
4		Item		
	Carried to Collection		R	
	<p>Bill No. 1</p> <p>PRELIMINARIES</p> <p>MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A</p>			

A26 ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT

Clause 26.0

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)

- 1 Fixed: _____ Value related: _____ Time related: _____

Item

A27 RECOVERY OF EXPENSE AND/ OR LOSS

Clause 27.0

- 2 Fixed: _____ Value related: _____ Time related: _____

Item

SUSPENSION AND TERMINATION

A28 SUSPENSION BY THE CONTRACTOR

Clause 28.0

- 3 Fixed: _____ Value related: _____ Time related: _____

Item

A29 TERMINATION

Clause 29.0

- 4 Fixed: _____ Value related: _____ Time related: _____

Item

DISPUTE RESOLUTION

A30 DISPUTE RESOLUTION

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1	<p><u>Clause 30.0</u></p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>AGREEMENT</u></p> <p><u>The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the contractual agreement for signature of the agreement by the contracting parties</u></p> <p><u>SECTION B: JBCC PRELIMINARIES</u></p> <p><u>B1.0 DEFINITIONS AND INTERPRETATION</u></p> <p><u>B1.1 Definitions and interpretation</u></p> <p><u>See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.</u></p>	Item		
2	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>B2.0 DOCUMENTS</u></p> <p><u>B2.1 Checking of documents</u></p>	Item		
3	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>B3.0 THE SITE</u></p> <p><u>B3.1 Defined works area</u></p>	Item		
4	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>B4.0 MANAGEMENT OF CONTRACT</u></p>	Item		
	<p>Carried to Collection</p>		R	
	<p>Bill No. 1 PRELIMINARIES MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A</p>			

1	<u>B4.1 Management of the works</u> Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
	<u>B5.1 Samples of materials</u>			
2	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
	<u>B6.1 Deposits and fees</u>			
3	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>B7.0 TEMPORARY SERVICES</u>			
	<u>B7.1 Location</u>			
	<u>The contractor shall agree the location of all temporary services with the principal agent before installation and on completion remove the same and make good.</u>			
	<u>Clause 7.1 - Water</u>			
4	Fixed:_____ Value related:_____ Time related:_____	Item		
	<u>Clause 7.2 - Electricity</u>			
5	Fixed:_____ Value related:_____ Time related:_____	Item		
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Clause 7.3 - Telecommunication facilities

1 Fixed:_____ Value related:_____ Time related:_____

Item

Clause 7.4 - Ablution facilities

2 Fixed:_____ Value related:_____ Time related:_____

Item

B8.0 PRIME COST AMOUNTS

B8.1 Responsibility for prime cost amounts

3 Fixed:_____ Value related:_____ Time related:_____

Item

9.0 ATTENDANCE ON N/S SUBCONTRACTORS

B9.1 General attendance

4 Fixed:_____ Value related:_____ Time related:_____

Item

B10.0 FINANCIAL ASPECTS

B10.1 Statutory taxes, duties and levies

5 Fixed:_____ Value related:_____ Time related:_____

Item

B10.2 Payment for preliminaries

6 Fixed:_____ Value related:_____ Time related:_____

Item

B10.3 Adjustment of preliminaries

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Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "in his priced bills of quantities / lump sum document submitted with his tender offer".

1 Fixed: _____ Value related: _____ Time related: _____

Item

B10.4 Payment certificate cash flow

2 Fixed: _____ Value related: _____ Time related: _____

Item

B11. GENERAL

B11.1 Protection of the works

3 Fixed: _____ Value related: _____ Time related: _____

Item

Clause 11.2 - Security of the works

4 Fixed: _____ Value related: _____ Time related: _____

Item

Clause 11.3 - Notice before covering work

5 Fixed: _____ Value related: _____ Time related: _____

Item

Clause 11.4 - Disturbance

6 Fixed: _____ Value related: _____ Time related: _____

Item

Clause 11.5 - Environmental disturbance

7 Fixed: _____ Value related: _____ Time related: _____

Item

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Clause 11.6 - Works cleaning and clearing

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.

1 Fixed: _____ Value related: _____ Time related: _____

Item

Clause 11.7 - Vermin

2 Fixed: _____ Value related: _____ Time related: _____

Item

Clause 11.8 - Overhand work

3 Fixed: _____ Value related: _____ Time related: _____

Item

B12. SCHEDULE OF VARIABLESB12.1 Pre-tender information

4 Fixed: _____ Value related: _____ Time related: _____

Item

12.1 PRE TENDER INFORMATION12.1.1 Provisional Bills of Quantities

[2.2] The quantities are provisional: Yes

12.1.2 Availability of construction documentation

[2.3] Construction of documentation is complete: Yes

12.1.3 Interest of agents

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[2.4] Details: None

12.1.4 Defined works area

[3.1] Details: Yes. See C3.1 Scope of Works and C4 Site information (Envelope A Volume 1 of 2)

12.1.5 Geotechnical investigation

[3.2] Details: See C5 (Volume 1 of 2 Envelope A)

12.1.6 Existing premises occupied

[3.4] Specific requirements: N/A

12.1.7 Previous work - dimensional accuracy

[3.5] Details: N/A

12.1.8 Previous work - defects

[3.6] Details: N/A

12.1.9 Services - known

[3.7] Details: N/A

12.1.10 Protection of trees

[3.9] Specific requirements: No

12.1.11 Inspection of adjoining properties

[3.11] Specific requirements: None

12.1.12 Enclosure of the works

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[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.

12.1.13 Offices

[6.4.3] Specific requirements: The contractor shall provide, maintain and remove, on completion, the following accommodation.

a) Meeting Room

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.

The room is to be well vented and fitted with two large white boards with markers and erasers.

b) Generally

The access and the areas around the offices and toilets shall be surfaced with clean crushed stone. 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.

12.1.14 Main notice board

[6.5] Specific requirements: N/A

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12.1.15 Subcontractors' notice board[6.6] Specific requirements: N/A12.1.16 Water[7.2] Option A (by contractor) No, Option B (by employer - free of charge) No, Option C (by employer - metered) Yes12.1.17 Electricity[7.3] Option A (by contractor)No, Option B (by employer - free of charge) No, Option C (by employer - metered) Yes12.1.18 Telecommunications[7.4] Telephone Yes Facsimile Yes E-mail Yes12.1.19 Ablution facilities[7.5] Option A (by contractor) Yes, Option B (by employer) No12.1.20 Protection of existing/sectionally occupied works[11.2] Protection is required: No12.1.21 Special attendance[9.2] Subcontractor (1) details: None Subcontractor (2) details: None Subcontractor (3) details: None Subcontractor (4) details: None12.1.22 Protection of works[11.1] Specific requirements: None12.1.23 Disturbance[11.5] Specific requirements: N/A12.1.24 Environmental disturbance[11.6] Specific requirements: None

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12.2 POST-TENDER INFORMATION

12.2.1 Payment of preliminaries

[10.2] Option A (pro-rated) No Option B (calculates) Yes

12.2.2 Adjustment of preliminaries

(10.3] Option A (three categories) Yes/No Option B (detailed breakdown) Yes/No

12.2.3 Additional agreed preliminaries items

Details: N/A

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Site instructions:

- 1 Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor

Item

C2. Overtime:

- 2 Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the Employer.

Item

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C3. Warranties for material and workmanship:

- 1 Where warranties for materials and/or workmanship are called for, the Contractor shall obtain a written warranty, addressed to the Employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the Contractor

Item

C4. Co-operation of Contractor for cost management:

- 2 It is specifically agreed that the Contractor accepts the obligation of assisting the Principal Agent in implementing proper cost management. The Contractor will be advised by the Principal Agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The Principal Agent undertakes to make available to the Contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the Contractor shall attend all cost plan review and cost management meetings. The Contractor undertakes to extend these procedures, as necessary, to all subcontractors

Item

C5. Propping of floors:

- 3 The Contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the Principal Agent and the cost thereof shall be borne by the Contractor

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<u>C6. Testing windows for watertightness:</u>				
1	Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the Principal Agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means	Item		
<u>C7. Testing flat roofs for watertightness:</u>				
2	Flat roof waterproof areas shall be flooded with water and kept 'ponded' to the approval of the Principal Agent for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing	Item		
<u>C8. Ingress of water:</u>				
3	It is the Contractors responsibility to prevent ingress of water into the buildings whilst all work is being completed, and damage arising out of the above will be made good at the Contractors expense.	Item		
<u>C9. Contract drawings:</u>				
4	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		
<u>C10. Trade names:</u>				
5	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		
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C11. Imported materials and equipment:

- 1 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

C12. SMME'S:

- 2 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.

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.

Item

C13 OCCUPATIONAL HEALTH AND SAFETY ACT

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Bill No. 1
PRELIMINARIES
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

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.

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Bill No. 1
PRELIMINARIES
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

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The Contractors attention is drawn to the Project Health and Safety Specification included in (C3.3 Volume 1 of 2 Envelope A)

Construction Environmental Management Plan (C3.4 Volume 1 of 2 Envelope A)

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.

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 (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.

1 Fixed: _____ Value related: _____ Time related: _____

Item

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Bill No. 1
PRELIMINARIES
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Bill No. 1

PRELIMINARIES

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Bill No. 1

PRELIMINARIES

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Bill No. 1

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Bill No. 1

PRELIMINARIES

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Ground beams	m3	45
2	Column bases	m3	697
	<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>		
3	Column bases	m3	174
4	Extra over trench, etc excavation in earth for excavation in soft rock	m3	220
5	Ditto, in hard rock	m3	110
6	Excavate back in earth for working space as necessary for the insertion and removal of formwork to ground beams not exceeding 0.50 deep including backfilling and compacting to 98% Mod AASHTO density	m2	235
7	Extra over excavation in earth for working space for excavation in soft rock	m2	50
8	Ditto, in hard rock	m2	25
9	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	619
10	Ditto, exceeding 1.50m	m2	1,298
11	Allow for keeping excavations free from water	Item	

Carried to Collection

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Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	1,155
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	799
3	150mm Thick sub-base course of G7 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	603
4	150mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density and to be 100% level and properly compacted and slushed with fines on surface (Note: Quantity is measured in cubic metres)	m3	603
5	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 93% AASHTO density	m2	4,022
6	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	4,022
7	Modified AASHTO density test on filling, etc	No	90

CONCRETENote:

For convenience test cubes and reinforcement are measured under concrete, formwork and reinforcement hereafter.

Carried to Collection

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Bill No. 2
FACTORY BUILDING
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

<u>Cement Concrete 15MPa/19mm Stone In:</u>				
1	Blinding under ground beams, bases, etc cast against excavated surfaces	m3	55	
<u>Reinforced Cement Concrete 25MPa/19mm Stone In:</u>				
2	Footings cast against excavated surfaces	m3	46	
3	Bases	m3	174	
<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>				
4	Ground beams	m3	39	
5	Columns	m3	63	
6	Retaining walls	m3	72	
<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 ground beams	m2	104	
8	Sides of rectangular columns	m2	324	
9	Sides of retaining walls	m2	314	
<u>Close Smooth Special Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy I) To Concrete To:</u>				
10	Sides of ground beams	m2	104	
Carried to Collection				R
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	Sides of retaining walls	m2	314
	<u>Sundries</u>		
2	Blocking in formwork to edge of beams, walls, columns, etc to form chamfer size 25 x 25mm high	m	408
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
	<u>CONCRETE</u>		
	<u>Testing</u>		
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	No	110
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>		
4	Slabs including beams and inverted beams	m3	3
5	Bund upstand beams	m3	42
6	Dock leveller bottom	m3	2
7	Dock leveller walls	m3	1
	<u>Cement Concrete 35MPa/19mm Stone With Low Water Cement Ratio Of Approximately 0.51 In:</u>		
8	Surface beds cast in panels including temporary formwork	m3	804
9	Thicken out surface bed under walls size 750mm wide x 100mm thick including any excavations, formwork, etc	m	11

Carried to Collection

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Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

<u>Sundries</u>					
1	Average 50mm Thick SikaGrout 212 applied in strict accordance with product specifications under baseplate	m2	8		
2	Power floated finish to top of surface bed to FM3 finish including curing, etc	m2	4,022		
3	Form joggle joint in concrete surface bed not exceeding 300mm wide	m	510		
4	4 x 45mm Saw cut joint in top of concrete surface bed reamed to 10 x 30mm (Note: sealing of the joints is included with the epoxy floor finish in the Painting section)	m	2,330		
5	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 etc., (Note: Jointex joint former and sealant is elsewhere measured) (refer to ZNM Engineers drawing No WD-3102)	m	164		
<u>Contraction And Expansion Joints</u>					
6	Two layers of 3 Ply Malthoid with graphite grease in between in slip joint between concrete and brick surfaces not exceeding 300mm wide	m	24		
7	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	495		
8	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3WF polyurethane sealant	m	495		
<u>FORMWORK</u>					
Carried to Collection				R	
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

<u>Close Rough Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy II) To Concrete To:</u>					
1	Soffit of slab not exceeding 3.50m high	m2	13		
2	Sides of dock leveller walls	m2	4		
3	Edge, riser, etc not exceeding 300mm high	m	16		
<u>Close Smooth Special Formwork (Use And Waste) As Per SABS 1200G 5.2.1.b (Degree Of Accuracy I) To Concrete To:</u>					
4	Sides of bund upstand beams	m2	368		
5	Sides of dock leveller walls	m2	2		
6	Edge, riser, etc not exceeding 300mm high	m	8		
<u>Sundries</u>					
7	Blocking in formwork to edge of beams, walls, columns, etc to form chamfer size 25 x 25mm high	m	409		
<u>REINFORCEMENT</u>					
<u>Mild Steel Rod Reinforcement To Structural Concrete Work</u>					
8	8mm Diameter bars	t	12		
9	10mm Diameter bars	t	6		
<u>High Tensile Rod Reinforcement To Structural Concrete Work</u>					
10	10mm Diameter bars	t	10		
Carried to Collection				R	
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	12mm Diameter bars	t	10		
2	16mm Diameter bars	t	10		
3	20mm Diameter bars	t	10		
4	25mm Diameter bars	t	8		
5	32mm Diameter bars	t	2		
<u>Fabric Reinforcement</u>					
6	Type 617 fabric reinforcement in concrete surface beds	m2	45		
<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>					
7	One brick wall	m2	50		
<u>Sundries</u>					
8	75 x 110mm Prestressed fabricated lintol in lengths not exceeding 3,00m	m	5		
9	155mm Brick mesh reinforcement in walls	m	150		
Carried to Collection				R	
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	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	24
2	1,60mm Galvanised hoop iron tie 30mm wide x 450mm long with one end built into brickwork and other end shot fixed to steel column	No	24
<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>			
3	Under surface beds, around ground beams, etc	m2	4,281
<u>ROOF COVERINGS, ETC</u>			
<u>0,8mm 'Huletts Aluminium Hulaspan A7 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.			
4	Side cladding including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximatley 1500mm centres	m2	935
<u>Sundries</u>			
5	Cut and fit side cladding around steel I-beam	No	25
6	Narrow flute serrated closer including polybutton	m	124

Carried to Collection

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Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Broad flute serrated closer including polybutton	m	212		
2	Drip flashing 231mm girth	m	187		
3	Jamb flashing 231mm girth	m	74		
4	Sill flashing 231mm girth	m	50		
5	Corner flashing 462mm girth	m	51		
6	Closure piece 110mm girth	m	204		
7	Ditto, but 462mm girth	m	204		
8	Cap flashing 770mm girth	m	59		
<u>0,8mm 'Hulett's Aluminium Hulaspan A7 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.					
9	Side cladding including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximately 1500mm centres	m2	507		
<u>Sundries</u>					
10	Drip flashing 231mm girth	m	91		
11	Jamb flashing 231mm girth	m	10		
Carried to Collection				R	
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Sill flashing 231mm girth	m	16		
2	Fascia flashing 462mm girth	m	19		
3	Cap flashing 770mm girth	m	65		
	<u>0,9mm Thick 'Hulett's Aluminium Hulammin Ziptech 420' Aluminium 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	4,273		
	<u>Sundries</u>				
5	Narrow flute serrated closer including polybutton	m	160		
6	Broad flute serrated closer including polybutton	m	160		
7	Gable flashing 462mm girth	m	166		
8	Gutter flashing 462mm girth	m	111		
9	Headwall flashing 462mm girth	m	105		
10	Apex flashing 720mm girth	m	55		
	Carried to Collection			R	
	Bill No. 2				
	FACTORY BUILDING				
	MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

<u>1.2mm Thick Modek "Heat Stop Grey" Polycarbonate sheeting to BR7 Profile , Fixed To Steel Cladding Rails In Single Lengths To Suit High Wind Areas All In Strict Accordance With The Manufacturer's Instructions</u>					
1	Side cladding including sealing side laps with 8 x 5mm butyl seal to cladding rails at approximately 1500mm centres	m2	539		
<u>Roof Insulation</u>					
2	50mm "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	4,273		
<u>CARPENTRY AND JOINERY</u>					
<u>DOORS</u>					
<u>Wrot Meranti</u>					
3	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	3		
<u>FRAMED FRAMES, ETC INCLUDING BUILDING IN</u>					
<u>Wrot Meranti</u>					
4	70 x 108mm Rebated frame bolted to steel support (elsewhere measured)	m	15		
<u>Sundries</u>					
Carried to Collection				R	
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

Wrot Meranti			
1	19mm Quadrant bead	m	31
2	38 x 50mm Rebated, splayed and grooved weather board including groove in door	m	3
IRONMONGERY			
3	2100mm Continuous geared hinge as Dorma DCH-AL-21	No	3
4	Two point locking panic bar suitable for single door as Dorma PHA12-SD	Sets	3
5	Door closer as Dorma TS83-PA	No	3
6	150mm Cabin hook and eye as Halstead 166SC including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	3
7	Approved break glass key box fixed to wall	No	3
Carried to Collection			
Bill No. 2 FACTORY BUILDING MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

STRUCTURAL STEELWORKNOTE

All structural steelwork to be fabricated in accordance with SANS 14713 Part 2.

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 with E700XX electrodes, according to AWS or similar approved by the Engineer.

All hot rolled structural steel members to be grade S355JR and plates to be grade 300WA.

Purlins and girts to be pre-galvanised.

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

All hot dipped members to be drilled, cut, welded, etc., prior to galvanising.

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.

Prices to include for fabrication, cutting, drilling, bending, welding, etc., delivery to site, and hoisting up and erecting into position.

Carried to Collection

Bill No. 2
FACTORY BUILDING
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

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Note:

The following restrictions are applicable on ground floor slab during construction and erection of structural steel.

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.

Pre-Galvanised Members

1	225 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t	22.80
2	225 x 75 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t	12.09
3	225 x 75 x 20 x 2,5 mm Cold formed lipped channel channel door and window support members (pre-punched)	t	0.20

Hot Dipped Galvanised Members

4	225 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t	1.44
5	225 x 75 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t	0.14
6	254 x 146 x 31kg/m I section column	t	0.42

Carried to Collection

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Bill No. 2

FACTORY BUILDING

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	305 x 102 x 33kg/m I section column	t	5.92
2	406 x 140 x 39kg/m I section column	t	7.37
3	254 x 254 x 73kg/m H section column	t	16.84
4	260 x 90mm Parallel flange channel section door support members	t	0.36
5	300 x 100mm Ditto	t	3.70
6	Roof trusses comprising angle iron rafters, posts, diagonals, etc.	t	53.90
7	Girder trusses comprising angle iron/H-section rafters, posts, diagonals, etc.	t	20.54
8	254 x 146 x 31kg/m UB rafters	t	0.57
9	254 x 146 x 31kg/m UB eaves struts	t	4.05
10	16mm Diameter sag rods	t	0.71
11	50 x 50 x 5mm Angle iron sag rods between roof members	t	2.74
12	50 x 50 x 5mm Angle iron sag rods to sides of structure	t	1.23
13	50 x 50 x 6mm Angle iron knee bracing	t	20.91
14	50 x 50 x 5mm Angle iron trimmers	t	0.66

Carried to Collection

R

Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	70 x 70 x 6mm Angle iron truss bracing	t	4.72
2	70 x 70 x 6mm Angle iron rafter bracing	t	0.56
3	152.4 x 3mm Circular hollow section vertical bracing	t	1.27
4	Purpose made T-section rafter formed of 100 x 100mm member welded to top edge of and including 440 x 10mm member to form T, the 440 x 10mm cut to splay along the length	t	1.16
5	Extra on last for 48.4 x 4mm circular hollow section rail welded to edge of splayed member	t	0.12
6	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	36.00
<u>Hot Dipped Galvanised Gutter Brackets</u>			
7	Eaves gutter bracket formed of 10mm thick x 200mm wide plate x 800mm girth, bent to radius, welded to top of and including two 10mm thick x 400mm wide x 538mm high tapered footing brackets (refer to ZNM Engineers drawing No WD-3305) (In No 63)	t	3.10
8	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	0.62
<u>Hot Dipped Galvanised Holding Down Bolts, Etc</u>			
9	M16 x 400mm Long holding down bolt (grade 8.8 threaded bar) complete with two nuts and two washers	No	16
10	M24 x 700mm long ditto	No	228

Carried to Collection

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Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Drill or core hole in exact position into top of reinforced concrete column for a depth of 300mm, remove all dust and water from hole by blowing out with high pressure air hose and grout in M16 holding down bolt (elsewhere measured) into place using approved 30MPa non-shrink grout in strict accordance with product specifications (refer to ZNM Engineers drawing No WD-3301)	No	16
2	Ditto, but M24 holding down bolt for a depth of 570mm (ditto)	No	228
<u>METALWORK</u>			
<u>HOT DIPPED GALVANISED MILD STEEL</u>			
3	50 x 50 x 8mm Corner protector with and including 30 x 5mm split and fanged lugs 150mm long welded on at not exceeding 500mm centres and cast into concrete as the work proceeds	m	19
<u>DOCK LEVELLERS</u>			
4	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	1
5	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	1
<u>ROLLER SHUTTER DOORS</u>			
6	Xpanda galvanised steel electric operated slatted roller shutter door size 3.00 x 3.50m complete with aluminium T bar, polycarb inserts, guides, Somfy SC300 motor, etc including building into position	No	3
7	Ditto, size 4.50 x 5.00m	No	2

Carried to Collection

R

Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

PLASTERINGINTERNAL PLASTERCement Plaster On:

1	Walls including flush columns and beams	m2	84
2	Concrete ceilings	m2	13
3	Narrow widths	m2	1

PLUMBINGSUB SOIL DRAINAGEMegaflow Geocomposite Panel Drain System

4	Megaflow MEG 170 drain system size 170 x 40mm laid horizontally to falls in and including trenches including excavations, backfilling, carting away surplus material, no-fines concrete encasing, etc (refer to ZNM Engineers drawing no WD-3104)	m	538
5	Extra for joint to Meg 315 drain system	No	42
6	Megaflow MEG 300 drain system size 315 x 40mm laid horizontally to falls in and including trenches including excavations, backfilling, carting away surplus material, no-fines concrete encasing, etc (refer to ZNM Engineers drawing no WD-3104)	m	278
7	Extra for joint to junction box (elsewhere measured)	No	9
8	Junction box size 1000mm x 1000mm x not exceeding 1.00m deep internally complete (see ZNM Engineers drawing no WD-3104)	No	2

Carried to Collection

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Bill No. 2
 FACTORY BUILDING
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Prepare Concrete Surface By Means Of Mechanically Grinding To Expose Aggregates, Remove Dust And Apply Two Coats Of Impact And Chemically Resistant Self- Levelling HACCP Certified Polyurethane- Urea Cement Screed All Applied In Strict Accordance With The Manufacturer's Instructions (Colour Light Grey)

1	4mm Thick average to surface beds	m2	4,022
2	Extra over last for saw cutting through through epoxy screed above 10 x 30mm deep saw cut joint already cut by the concrete contractor, insert backing cord into saw cut and seal cavity with Sikaflex Pro-3WF sealant all in strict accordance with the manufacturers instructions	m	2,494

Carried to Collection

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Bill No. 2
FACTORY BUILDING
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Bill No. 2

FACTORY BUILDING

COLLECTION

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Carried to Summary

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Bill No. 2

FACTORY BUILDING

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Column bases	m3	102		
2	Extra over trench, etc excavation in earth for excavation in soft rock	m3	52		
3	Ditto, in hard rock	m3	26		
4	Risk of collapse to sides of trench, etc excavations not exceeding 1.50m deep	m2	500		
5	Ditto, exceeding 1.50m	m2	266		
6	Allow for keeping excavations free from water		Item		
7	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	269		
8	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	143		
9	150mm Thick sub-base course of G7 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	77		
10	150mm Thick base course of G5 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density and to be 100% level and properly compacted and slushed with fines on surface (Note: Quantity is measured in cubic metres)	m3	77		
11	50mm Layer of approved river sand supplied by the contractor and compacted under floors to 93% AASHTO density	m2	512		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	512
2	Modified AASHTO density test on filling, etc	No	15
<u>CONCRETE</u>			
<u>Note:</u>			
For convenience test cubes and reinforcement are measured under concrete, formwork and reinforcement hereafter.			
<u>No-Fines Concrete In:</u>			
3	Filling to cavity of hollow wall	m3	6
<u>Cement Concrete 15MPa/19mm Stone In:</u>			
4	Blinding under ground beams, bases, etc cast against excavated surfaces	m3	6
<u>Reinforced Cement Concrete 25MPa/19mm Stone In:</u>			
5	Footings cast against excavated surfaces	m3	46
6	Bases	m3	23
<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>			
7	Columns	m3	3

Carried to Collection

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Bill No. 3
 ADMINISTRATION BLOCK
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

	<u>Sundries</u>				
1	1.60mm Galvanised hoop iron tie 30mm wide x 450mm long with one end embedded 200mm deep in concrete and other end tacked to formwork and later bent down and built into brickwork as the work proceeds	No	264		
	<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>				
2	Sides of rectangular columns	m2	43		
	<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>				
3	Half brick wall	m2	40		
4	Ditto, in lining to concrete including wire ties	m2	7		
5	One brick wall	m2	108		
6	360mm Hollow wall formed of one half brick skin and one 140mm Corojem brick skin including butterfly wire ties	m2	124		
	<u>Sundries</u>				
7	80mm Brick mesh reinforcement in walls	m	1,710		
	Carried to Collection			R	
	Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	155mm Ditto	m	2,320
	<u>Facings</u>		
	<u>Facings Formed Of Selected Corobrik Silver Grey Travertine FBX Face Bricks Pointed With Square Horizontal And Vertical Joints</u>		
2	Extra over brickwork for faced brickwork	m ²	63
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
	<u>CONCRETE</u>		
	<u>Testing</u>		
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	No	12
	<u>Reinforced Cement Concrete 30MPa/19mm Stone In:</u>		
4	Surface beds cast in panels including temporary formwork	m ³	102
5	Slabs including beams and inverted beams	m ³	9
6	Isolated beams	m ³	22
7	Columns	m ³	6
	<u>Sundries</u>		
8	Average 50mm Thick SikaGrout 212 applied in strict accordance with product specifications under baseplate	m ²	2
	Carried to Collection		R
	Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A		

1	Form joggle joint in concrete surface bed not exceeding 300mm wide	m	55
2	4 x 45mm Saw cut joint in top of concrete surface bed reamed to 10 x 30mm (Note: sealing of the joints is included with the epoxy floor finish in the Painting section)	m	219
3	Sikaflex Pro-3WF with backing cord in filling to the above saw cut joint in strict accordance with the Manufacturers instructions	m	219
4	1.60mm Galvanised hoop iron tie 30mm wide x 450mm long with one end embedded 200mm deep in concrete and other end tacked to formwork and later bent down and built into brickwork as the work proceeds	No	1,108
<u>Contraction And Expansion Joints</u>			
5	Two layers of 3 Ply Malthoid with graphite grease in between in slip joint between concrete and brick surfaces not exceeding 300mm wide	m	25
6	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	1,021
7	Remove blocking piece and seal 10 x 10mm cavity with Sikaflex Pro-3WF polyurethane sealant	m	891
<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	Soffit of slab exceeding 3.00 and not exceeding 5.00m high	m2	32
9	Sides and soffits of beams not exceeding 3.50m high	m2	153

Carried to Collection

R

Bill No. 3
 ADMINISTRATION BLOCK
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Ditto, exceeding 3.00 and not exceeding 5.00m high	m2	79
2	Sides of rectangular columns not exceeding 3.50m high	m2	61
3	Ditto, exceeding 3.00 and not exceeding 5.00m high	m2	39
4	Edge, riser, etc not exceeding 300mm high	m	26

REINFORCEMENTMild Steel Rod Reinforcement To Structural Concrete Work

5	8mm Diameter bars	t	3
6	10mm Diameter bars	t	2

High Tensile Rod Reinforcement To Structural Concrete Work

7	10mm Diameter bars	t	3
8	12mm Diameter bars	t	2
9	16mm Diameter bars	t	2
10	20mm Diameter bars	t	2
11	25mm Diameter bars	t	1
12	32mm Diameter bars	t	1

MASONRY

Carried to Collection

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Bill No. 3
ADMINISTRATION BLOCK
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

<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>					
1	Half brick wall	m2	93		
2	Ditto, in lining to concrete including wire ties	m2	79		
3	One brick wall	m2	594		
4	360mm Hollow wall formed of one half brick skin and one 140mm Corojem brick skin including butterfly wire ties	m2	274		
5	Half brick wall in shower kerb two courses high	m	2		
6	200mm Cut brick on edge sill set sloping	m	6		
<u>Sundries</u>					
7	Bag outer face of inner skin of brickwork and apply two coats bituminous paint	m2	274		
8	Cement mortar triangular fillet one course high in bottom of 50mm wide cavity wall including leaving open perpend at 1,00m centres	m	149		
9	Labour and material building 50mm cavity solid vertically for half brick width	m	85		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Labour and material building 50mm cavity solid horizontally for two courses	m	80
2	70 x 110mm Prestressed fabricated lintol in lengths not exceeding 3,00m	m	140
3	70 x 145mm Ditto	m	56
4	80mm Brick mesh reinforcement in walls	m	1,360
5	155mm Ditto	m	2,605
6	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	120
<u>Facings</u>			
<u>Facings Formed Of Selected Corobrik Silver Grey Travertine FBX Face Bricks Pointed With Square Horizontal And Vertical Joints</u>			
7	Extra over brickwork for faced brickwork	m2	302
8	Raking cutting and waste	m	15
9	Facebrick on edge cut lintol	m	45
10	Facebrick on edge coping one brick wide	m	10
11	200mm Wide cut brick on edge sill set sloping and slightly projecting	m	33

WATERPROOFINGDAMPPROOFING OF FLOORS AND WALLS

Carried to Collection

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Bill No. 3
ADMINISTRATION BLOCK
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

<u>One Layer Of 250 Micron USB Green Waterproof Sheeting Sealed At Laps With Pressure Sensitive Tape</u>				
1	Under surface beds	m2	512	
<u>One Layer Of 375 Micron Embossed Damp Proof Course</u>				
2	In walls	m2	125	
3	Vertically at jambs	m2	17	
<u>WATERPROOFING TO ROOFS, ETC</u>				
<u>Waterproofing Formed Of One Layer ABE Index Fidia P 3mm And One Layer ABE Fidia 4.5kg MS Applied In Strict Accordance With The Manufacturers Instructions</u>				
4	On flat roofs including turn-ups	m2	44	
5	Torch-On gussets to angles	m	26	
6	Sealing edges to brickwork or concrete	m	26	
7	Dress waterproofing into gutter and seal	m	5	
<u>Prepare Surface And Apply Two Coats Resiflex Waterproofing Material In Strict Accordance With The Manufacturers Instructions</u>				
8	On walls behind wall tiles	m2	16	
9	On floors below floor tiles	m2	2	
<u>ROOF COVERINGS, ETC</u>				
Carried to Collection				R
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

<u>0.9mm Thick 'Hulets Aluminium Hualamin Ziptech 420' Aluminium 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	650		
2	Ditto, to underside of steel rafters and purlins	m2	143		
<u>Sundries</u>					
3	Narrow flute serrated closer including polybutton	m	153		
4	Broad flute serrated closer including polybutton	m	139		
5	Ditto, at hip capping	m	26		
6	Cover strip 100mm girth	m	97		
7	Stepped cover flashing 231mm girth including raking out grooves in brickwork and wedging, pointing and sealing in epoxy mortar	m	17		
8	Gable flashing 462mm girth	m	22		
9	Sidewall flashing 462mm girth	m	17		
10	Headwall flashing 462mm girth	m	64		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Hip capping flashing 462mm girth	m	13
2	Apex flashing 720mm girth	m	79
	<u>Roof Insulation</u>		
3	50mm "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	650
	<u>CARPENTRY AND JOINERY</u>		
	<u>SKIRTINGS</u>		
	<u>Wrot Pine</u>		
4	22 x 94mm Skirting	m	32
5	Ditto, but fixed to drywall partitions	m	34
	<u>DOORS</u>		
	<u>Solid Flush Horizontal Grooved Doors Faced Both Sides With Commercial Veneer With Two Hardwood Edges Hung To Timber Or Steel Frames</u>		
6	44mm Door size 813 x 2032mm	No	12
7	44mm Double door size 1526 x 2032mm with rebated meeting styles	No	5
8	Extra over last for forming 400 x 600mm opening rebated all round to receive glass (elsewhere measured) including 22 x 22mm splayed glazing beads mitred around	No	14
	Carried to Collection		
	Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A		

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SUSPENDED CEILINGSNote

Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)

600 x 600 x 12.5mm Thick Gyproc Gyprex Frost White Vinylclad Gypsumboard Ceiling Panels On White Aluminium Pre-Painted Exposed Tee Suspension System Including Main And Cross Tees, Necessary Hangers, Grids, Etc.

1	Ceilings suspended exceeding 1.00 and not exceeding 2.00m below steel purlins at 1.50m centres (trusses at 6.00m centres)	m2	461
	<u>Sundries</u>		
2	SM25 White Aluminium shadowline cornice plugged	m	350
3	115mm Thick "Aerolite" insulation with a Rval of 2.88m3 K/W laid over ceiling grid	m2	461

PARTITIONS, ETC

"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)

4	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	34
5	Extra over for end intersection with brick wall	No	5

Carried to Collection

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Bill No. 3
ADMINISTRATION BLOCK
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Ditto, wall end	No	1		
2	Ditto, corner	No	1		
3	Ditto, T-intersection	No	3		
4	Extra over partition for natural anodised aluminium door frame to suit door size 813 x 2032mm (door and ironmongery elsewhere measured) including additional studding, trimming, etc	No	3		
5	Ditto, but for double door size 1526 x 2032mm	No	2		
6	Extra over partition for forming opening for view window (by others) size 1200 x 900mm including additional studding, trimmings, etc and including aluminium U-shaped capping all round perimeter	No	7		
	<u>Toilet Cubicles As Supplied By Cubicle Supplier Solutions Manufactured With 12mm Thick Compact High Pressure Laminate Of Approved Colour In Cube Standard Range 1 (Code CSt1/304) Modular, Frameless System With Supporting Powder Coated Aluminium Head Rail, Floor Anchored With Adjustable Supporting Feet (Code CSSF01/316/13) Bracketed To Walls And Partitions With Stainless Steel Brackets (Code CSSBr01/304) Including Hat And Coat Hooks (Code CSSH&C02/304) With Buffer Stopper, Indicator bolt (Code CSTIN01/316/13) And Rise And Fall Butt Auto Open Hinge (Code CSTR&F01/316/13) All In Strict Accordance With The Manufacturer's Instructions</u>				
7	Intermediate partition size 1800 x 1935mm	No	8		
8	End pilaster size 125 x 1935mm	No	4		
9	Intermediate pilaster size 250 x 1935mm	No	8		
	Carried to Collection			R	
	Bill No. 3				
	ADMINISTRATION BLOCK				
	MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	Door size 750x 1930mm including ironmongery as described above	No	10		
	<u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u>				
	<u>FLOOR COVERINGS</u>				
	<u>500 x 500mm Belgotex Berberpoint 650 Nexbac Carpet Tiles Of Approved Colour Including Laying, Adhesive, Etc</u>				
2	On floors	m2	80		
	<u>Sundries</u>				
3	6mm Thick Tal Screedmaster self levelling screed laid on new screeds all in strict accordance with the manufacturers instructions	m2	80		
	<u>IRONMONGERY</u>				
4	102 x 75 x 3mm Two ball bearing butt hinge as Dorma DBB-SS-009	No	54		
5	100mm Aluminium sinkless hinge as Alufab 1040	No	21		
6	153mm Manual flush bolt as Dorma DFB-SC-180	No	12		
7	Lever handle on rose as Dorma CR003-Cyl-SS	Sets	13		
8	Pull handle as Dorma DPH301C-BT-SS	No	3		
9	Ditto, as Dorma DPH301B-SS	No	2		
10	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		
	Carried to Collection			R	
	Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	Ditto, but with plate as Dorma DHP-430-CL-SF	No	5		
2	Ditto, but with plate as Dorma DHPL-430-BL-SF	No	1		
3	Adjustable roller bolt as Dorma DBC-022-SS	No	3		
4	Bathroom WC indicator and turnknob as Dorma DWC-005-SS	Sets	3		
5	Disabled WC indicator and turnknob as Dorma DWC-006-SS	Sets	1		
6	Bathroom sash lock as Dorma D035-SS	No	2		
7	Bathroom deadlock as Dorma DMWC-008-SS	No	1		
8	Cylinder sash lock as Dorma D0365-SS	No	11		
9	Cylinder deadlock as Dorma D037D-SS	No	4		
10	42.5mm Five pin half cylinder as CISA-OG304-09-12 grand master keyed	No	3		
11	65mm Five pin knob cylinder as CISA-OG302-10-12 grand master keyed	No	11		
12	Master key	No	4		
13	Escutcheon as Dorma DCE-002-SS	Pairs	3		
14	Dust proof strike as Dorma DPS-032-SS	No	6		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Rebate conversion set as Dorma D038R-NP	No	5		
2	Door closer as Dorma TS73V PA DC PAB SL	No	1		
3	Ditto, as Dorma TS91 EN3 FP	No	2		
4	Ditto, as Dorma TS91B SL	No	3		
5	Non hold open co-ordinated door closer as Dorma TS91B G SR	No	1		
6	Door stop as Dorma DDS-SS-017	No	15		
7	Hat and coat hook as Dorma DHC-SS-031B	No	3		
8	Wall buffer as Dorma DDH-020-SS	No	5		
9	Paraplegic grab rail as Chairman Industries DL2	No	1		
10	Ditto, as Chairman Industries SR2	No	1		
11	Toilet roll dispenser as Franke TR2 fixed to wall	No	14		
12	40 x 2mm Aluminium cover strip fixed to wall over V-joint in plaster	m	304		
13	150 x 150mm Sign as Dorma DSS-130M	No	2		
14	150 x 150mm Sign as Dorma DSS-131F	No	3		
15	150 x 150mm Sign as Dorma DSS-133P	No	1		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	150 x 150mm Sign as Dorma DSS-135TC	No	1	
2	150 x 150mm Sign as Dorma DSS-138C	No	1	
3	813 x 200mm Stainless steel kick/push plate counter screwed around perimeter as Dorma DKP-430-SF-200	No	2	
<u>STRUCTURAL STEELWORK</u>				
<u>NOTE</u>				
All structural steelwork to be fabricated in accordance with SANS 14713 Part 2.				
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 with E700XX electrodes, according to AWS or similar approved by the Engineer.				
All hot rolled structural steel members to be grade S355JR and plates to be grade 300WA.				
Purlins and girts to be pre-galvanised.				
Carried to Collection				R
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

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

All hot dipped members to be drilled, cut, welded, etc., prior to galvanising.

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.

Prices to include for fabrication, cutting, drilling, bending, welding, etc., delivery to site, and hoisting up and erecting into position.

Note:

The following restrictions are applicable on ground floor slab during construction and erection of structural steel.

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.

Pre-Galvanised Members

1	175 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t	0.34
2	225 x 75 x 20 x 2,5 mm Cold formed lipped channel purlins (pre-punched)	t	4.59

Carried to Collection

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Bill No. 3
ADMINISTRATION BLOCK
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

<u>Hot Dipped Galvanised Members</u>					
1	16mm Diameter sag rods	t	0.03		
2	50 x 50 x 5mm Angle iron sag rods between roof members	t	0.06		
3	50 x 50 x 5mm Angle iron trimmers	t	0.09		
4	70 x 70 x 6mm Angle iron rafter bracing	t	0.56		
5	88.9 x 3mm Circular hollow section bracing	t	0.32		
6	254 x 146 x 31kg/m UB rafters	t	4.37		
7	Purpose made T-section rafter formed of 100 x 100mm member welded to top edge of and including 440 x 10mm member to form T, the 440 x 10mm cut to splay along the length	t	1.02		
8	Extra on last for 48.4 x 4mm circular hollow section rail welded to edge of splayed member	t	0.11		
9	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	2.30		
<u>Hot Dipped Galvanised Holding Down Bolts, Etc</u>					
10	M16 U-shaped holding down bolt (grade 8.8 threaded bar) 1100mm girth (refer to ZNM Engineers drawing No WD 3103)	No	30		
11	Embed U-shaped holding down bolt in exact position in top of concrete beam	No	30		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

METALWORKHOT DIPPED GALVANISED MILD STEEL

1	100 x 80 x 8mm Angle iron bearer as lintol placed in position in brick wall	m	56
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ROLLER SHUTTER DOORS

2	Xpanda galvanised steel chain operated slatted roller shutter door size 3.00 x 2.47m complete with aluminium T bar, polycarb inserts, guides, etc including building into position	No	2
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SHOWER DOORS

3	White powder coated aluminium shower pivot door size 900 x 2000mm as supplied by Eagle including fixing in position	No	2
---	---	----	---

PLASTERINGSCREEDSCement Screeds On Concrete

4	30mm Thick on floors	m2	389
5	Average 40mm thick graded to falls to outlet	m2	2
6	Average 80mm thick to roof slab graded to falls to outlet	m2	39

GranolithicUntinted Granolithic On Concrete

7	30mm Thick on floors	m2	123
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INTERNAL PLASTER

Carried to Collection

R

Bill No. 3
 ADMINISTRATION BLOCK
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

EXTERNAL PLASTER

TILING

Sundries

1	White glazed ceramic recessed soap dish holder as Vaal 71511084 fixed to wall	No	2		
	<u>FLOOR TILING</u>				
	<u>Provide The Prime Cost Sum Of R 250.00/m2 Nett Supply Only For 600 x 600mm Ceramic Floor Tiles - Prices Are To Include For Laying, Tal Goldstar Adhesive, Pointing With Tal Tinted Epoxy Grout, Waste And Profit (Screeds Elsewhere Measured)</u>				
2	On floors	m2	307		
3	On floors to falls to outlet of shower including cutting tiles to size 100 x 100mm	m2	2		
4	Cut skirting tile 100mm high	m	193		
5	Ditto, fixed to drywall partitions	m	12		
	<u>Sundries</u>				
6	Aluminium tile trim as Kirk Marketing ASQE120.N fixed to top of skirting	m	205		
7	Aluminium ramp trim as Kirk Marketing ARWR100.N	m	17		
8	PVC movement joint with grey insert as Kirk Marketing AMJ120.14	m	124		
	<u>GLAZING</u>				
	<u>GLAZING TO WOOD WITH BEADS (ELSEWHERE MEASURED)</u>				
9	6.35mm Intruderprufe clear laminated safety glass and glazing in panes exceeding 0.10 and not exceeding 0,50m2	m2	4		
	Carried to Collection			R	
	Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

<u>MIRRORS</u>					
1	6mm Float glass silvered back mirror size 600 x 750mm with polished edged, four times holed for and screwed to plugs in wall with chromium plated dome headed screws and cork washers at back	No	14		
<u>PAINTING</u>					
<u>ON PLASTER, ETC</u>					
<u>Prepare Surface And Apply One Coat Primer And Two Coats Super Acrylic PVA Paint On:</u>					
2	Internal plastered ceilings and beams	m2	32		
<u>Prepare Surface And Apply One Coat Primer And Two Coats Plascon Cashmere Paint On:</u>					
3	Internal plastered walls	m2	1,050		
4	Drywall partitions	m2	185		
<u>Prepare Surface And Apply One Coat Primer, One Coat Micatex And Two Coats Plascon Wall N All Paint On:</u>					
5	External plastered walls	m2	131		
<u>ON METAL</u>					
<u>Prepare Surface And Apply one Coat Bituminous Paint On:</u>					
6	Backs of door linings before setting up in position	m2	2		
<u>Prepare Surface And Apply One Coat Primer And Two Coats Velvagro Paint On:</u>					
7	Galvanised door frames	m2	2		
8	Aluminium cover strip not exceeding 300mm girth	m	305		
Carried to Collection				R	
Bill No. 3 ADMINISTRATION BLOCK MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

ON WOODPrepare Surface And Apply One Coat Primer On:

1	Backs of frames not exceeding 300mm girth	m	77
<u>Prepare Surface And Apply One Coat Primer And Two Coats Velvagro Paint On</u>			
2	Doors	m2	90
3	Door frames	m2	23
4	Skirting, rail, etc not exceeding 300mm girth	m	66

Carried to Collection

R

Bill No. 3
 ADMINISTRATION BLOCK
 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Bill No. 3

ADMINISTRATION BLOCK

COLLECTION

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Carried Forward

R

Bill No. 3

ADMINISTRATION BLOCK

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Bill No. 3

ADMINISTRATION BLOCK

COLLECTION

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Carried to Summary

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Bill No. 3

ADMINISTRATION BLOCK

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>PLUMBING AND DRAINAGE</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	27	
2	160mm Ditto	m	60	
	Carried to Collection		R	
	Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

1	110mm Pipe laid in and including trenches exceeding 1.00 and not exceeding 2.00m deep	m	28		
2	160mm Pipe Ditto	m	40		
	<u>Extra For:</u>				
3	110mm Junction	No	4		
	<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>				
4	450mm Pipe laid in and including trenches not exceeding 1.00m deep	m	34		
5	450mm Pipe laid in and including trenches exceeding 1.00 and not exceeding 2.00m deep	m	107		
6	600mm Ditto	m	5		
7	450mm Pipe laid in and including trenches exceeding 2.00 and not exceeding 3.00m deep	m	61		
8	600mm Ditto	m	93		
	<u>Sundries</u>				
9	Excavate to expose side of existing manhole exceeding 2.00 and not exceeding 3.00m deep and connect up new 600mm pipe and make good to manhole after	No	1		
	Carried to Collection			R	
	Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	Excavate to expose existing 600mm stormwater pipe exceeding 2.00 and not exceeding 3.00m 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	12		
3	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	4		
4	Stormwater grid inlet catchpit size 600mm x 600mm x not exceeding 1.00m deep internally complete (refer to CSE Engineers drawing No E813-010)	No	10		
5	Ditto, exceeding 1.00 and not exceeding 2.00m deep internally	No	5		
6	Ditto, exceeding 2.00 and not exceeding 3.00m deep internally	No	3		
7	Stormwater manhole size 750mm x 750mm x exceeding 1.00 and not exceeding 2.00m deep internally complete (refer to CSE Engineers drawing No E813-010)	No	2		
8	Ditto, exceeding 2.00 and not exceeding 3.00m deep internally	No	1		
9	Ditto, but size 900 x 1200mm exceeding 2.00 and not exceeding 3.00m deep internally	No	1		
10	Kerb inlet manhole size 900mm x 3100mm x exceeding 2.00 and not exceeding 3.00m deep internally complete (refer to CSE Engineers drawing No E813/010)	No	4		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Stormwater relax tank to suit 450mm pipe size 1500mm x 28500mm x not exceeding 1.00m deep internally complete including encasing inlet pipe as shown on the drawing (refer to CSE Engineers drawing No E813/010))	No	1		
2	Ditto, exceeding 1.00 and not exceeding 2.00m deep internally	No	1		
<u>STORMWATER V-CHANNEL</u>					
<u>SUB SOIL DRAINAGE</u>					
<u>Megaflow Geocomposite Panel Drain System</u>					
3	Megaflow MEG 300 drain system size 315 x 40mm laid vertically in and including 150mm wide x 400mm deep trench to falls including backfilling with sand, excavations, carting away surplus material, etc	m	447		
4	Extra for bend	No	5		
5	Ditto, junction	No	17		
6	Ditto, joint to catchpit (elsewhere measured)	No	6		
<u>Kaytech Flo-Drain System Complete</u>					
7	Composite sub soil drain laid in and including trenches exceeding 1.00 and not exceeding 2.00m deep formed of 100mm diameter Kaytech M100 Flow Drain with 2.00mm high Kaytech 525 Flownet above all covered with Bidem A4 including backfilling to trench with selected granular fill compacted to 93% AASHTO density including excavations, carting away, etc	m	55		
8	Ditto, but laid in excavations behind retaining walls	m	130		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Connect Flow Drain into stormwater manhole	No	1		
	<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>				
2	110mm Pipe laid in and including trenches not exceeding 1.00m deep	m	29		
3	160mm Ditto	m	9		
4	110mm Pipe laid in and including trenches exceeding 1.00 and not exceeding 2.00m deep	m	18		
5	160mm Ditto	m	184		
6	160mm Pipe laid in and including trenches exceeding 2.00 and not exceeding 3.00m deep	m	20		
7	160mm Pipe laid in and including trenches exceeding 3.00 and not exceeding 4.00m deep	m	5		
	<u>Extra For:</u>				
8	160mm Straight reducer	No	1		
9	110mm Bend	No	50		
10	160mm Bend	No	2		
	Carried to Collection			R	
	Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	110mm Inspection eye bend	No	2	
2	160mm Ditto	No	1	
3	110mm Junction	No	3	
4	160mm Ditto	No	1	
5	110mm Inspection eye junction	No	22	
6	160mm Ditto	No	3	
7	110mm Inspection eye reducing junction	No	2	
8	160mm Ditto	No	1	
	<u>Sundries</u>			
9	Excavate to expose side of existing manhole exceeding 3.00 and not exceeding 4.00m deep and connect up new 160mm pipe and make good to manhole after including altering existing benching, channelling, etc	No	1	
10	Cement Concrete 20MPa in encasing 110mm pipe to a minimum thickness of 100mm all round including any necessary formwork, etc	m	13	
11	Ditto, to 160mm pipe	m	20	
12	Ditto, to 110mm bend	No	19	
13	Ditto, to 160mm bend	No	1	
Carried to Collection				R
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	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	6		
2	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	4		
3	160mm Ditto	No	1		
4	Floor drain as Rofo R280V NW100 complete with "P" trap, short length of cast iron pipe with socket, S.S.N. coupling, encasing in concrete, joint to PVC pipe, etc	No	1		
5	Sewer manhole size 0.90 x 0.90 x not exceeding 1.00m deep internally complete (refer to CSE Engineers drawing No E813/101)	No	4		
6	Ditto, exceeding 1.00 and not exceeding 2.00m deep internally	No	7		
7	Ditto, exceeding 2.00 and not exceeding 3.00m deep internally	No	1		
8	Extra over excavations for drain trenches, etc in earth for excavation in soft rock	m3	400		
9	Ditto, in hard rock	m3	200		
<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:					
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

Drain Trenches, Water Supply, Etc - 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.

Inspection Chambers, Etc - Inspection chambers, etc shall be taken to the full extent in width and depth and no more.

SANITARY PLUMBING

UPVC Pipes And Fittings

1	40mm pipes	m	28
2	50mm Pipes	m	24
3	110mm Pipes	m	36
4	40mm Pipes chased into walls including making good to plaster	m	25
5	50mm Ditto	m	20
6	40mm Pipes in fill under floors including any excavation, backfilling, etc	m	10
7	50mm Ditto	m	12
<u>Extra For:</u>			
8	50mm Straight reducer	No	7
9	110mm Ditto	No	3

Carried to Collection

R

Bill No. 4
PLUMBING AND DRAINAGE
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	110mm Pan connector	No	15		
2	40mm Bend	No	30		
3	50mm Bend	No	36		
4	110mm Bend	No	4		
5	40mm Inspection eye bend	No	12		
6	50mm Ditto	No	12		
7	110mm Ditto	No	14		
8	40mm Junction	No	6		
9	50mm Ditto	No	4		
10	110mm Ditto	No	3		
11	40mm Inspection eye junction	No	4		
12	50mm Ditto	No	5		
13	110mm Ditto	No	5		
14	50mm Inspection eye reducing junction	No	2		
15	110mm Ditto	No	2		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

	<u>Sundries</u>				
1	50mm UPVC vent valve	No	3		
2	110mm Ditto	No	2		
3	50mm PVC "P" trap including joint to pipe and outlet of fitting	No	4		
4	40mm Shower trap as Cobra COB-373SQ including joint to pipe	No	2		
5	32 x 40mm Chromium plated bottle trap as Cobra COB-385/35 including joint to pipe and outlet of fitting	No	14		
6	40 x 40mm Ditto, as Cobra COB-365/40	No	6		
7	40mm Brass combination sink "P" trap including joint to pipe and outlet of fitting	No	3		
	<u>SANITARY FITTINGS</u>				
8	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	13		
9	Wash hand basin as "Vaal Hibiscus VAA-702303WH" or other approved with pedestal as "Vaal VAA-715222WH" complete with waste union, overflow tube attachment, plug and chain, brackets, etc (taps elsewhere measured)	No	1		
10	WC suite comprising pan as "Betta Rapido RT0208A" and approved double flap seat complete (Flushmaster valve elsewhere measured)	No	14		
	Carried to Collection			R	
	Bill No. 4				
	PLUMBING AND DRAINAGE				
	MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	Paraplegic WC suite comprising pan as "Vaal Pearl Paraplegic VAA-730103WH", approved double flap seat", matching 9 litre cistern with side flush valve, flush pipe, etc complete	No	1		
2	535 x 454 x 255mm Stainless steel drip sink as Franke 350950 or other approved complete with approved brackets, etc and fixing in position	No	1		
3	"Vaal Lavatera VAA-705426WH" or other approved fireclay wall urinal complete with waste union, brackets, chromium plated sparge pipe, etc	No	6		
4	Stainless steel double bowl sink unit as "Frankie Quinline 1990007" or other approved size 1200 x 500mm complete with waste union, plug, chain, etc and fixing on top of timber fitting (elsewhere measured)	No	2		
5	Ditto, but single bowl as "Franke Quinline 1990003" or other approved	No	1		
<u>WATER SUPPLY</u>					
<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>					
6	32mm Pipe laid in and including trenches not exceeding 1,00m deep	m	28		
7	75mm Ditto	m	27		
<u>Extra For UPVC Fittings:</u>					
8	32mm Flange adaptor	No	2		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	75mm Ditto	No	2		
2	75mm Bend	No	1		
<u>Galvanised Mild Steel Pipes And Fittings Including Wrapping With Canusa Wrapidbond System</u>					
3	32mm Extension piece 530mm long with one end plain and other end butt welded to bend	No	2		
4	Ditto, but 1072mm long	No	2		
5	80mm Extension piece 380mm long with one end plain and other end butt welded to bend	No	1		
6	Ditto, but 2186mm long	No	1		
7	80mm Distance piece pipe flanged one side with length of 247mm flange to open end	No	1		
8	80mm puddle pipe flanged on both sides with length of 630mm flange to flange	No	1		
9	80mm VJ flanged adaptor	No	1		
10	32mm Puddle flange	No	2		
11	80mm Ditto	No	1		
12	100 x 80mm Flanged reducer	No	1		
13	32mm 90 Degree butt welded long radius bend	No	2		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	80mm Ditto	No	1		
	<u>Class II Copper Pipes</u>				
2	15mm Pipes	m	38		
3	22mm pipes	m	45		
4	28mm Pipes	m	10		
5	35mm Pipes	m	5		
6	15mm Pipes chased into walls including making good to plaster	m	65		
7	22mm Ditto	m	28		
8	28mm Ditto	m	8		
9	15mm Pipes laid in and including trenches	m	15		
10	22mm Ditto	m	10		
11	28mm Ditto	m	10		
	<u>Extra For Approved Brass Compression Fittings</u>				
12	15mm Fittings	No	105		
13	22mm Fittings	No	102		
14	28mm Fittings	No	18		
	Carried to Collection			R	
	Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	35mm Straight connector	No	2		
2	35mm Straight reducing coupling	No	2		
3	35mm Bent coupling	No	5		
4	35mm Tee	No	1		
5	35mm Reducing tee	No	2		
	<u>Sundries</u>				
6	Cement concrete (26MPa) in thrust blocks at bends, tees, etc including necessary excavation, formwork, etc	m3	4		
7	15mm Chromium plated angle regulating valve with 350mm flexi tube as Cobra 832/350 including joints to pipes	No	53		
8	15mm Brass stopcock including joints to pipes	No	6		
9	22mm Ditto	No	4		
10	28mm Ditto	No	1		
11	35mm Ditto	No	1		
12	80mm Galvanised mild steel flanged AVK RSV gate valve with spindle including joints to pipes	No	1		
13	15mm Chromium plated stopcock including joints to pipes	No	2		
	Carried to Collection			R	
	Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

1	15mm Brass hose tap including joint to pipe	No	3		
2	15mm Chromium plated pillar tap as Cobra Star 111" or other approved including joint to pipe	No	28		
3	15mm Chromium plated sink mixer as "Cobra 166/041" or other approved including joints to pipes	No	3		
4	15mm Chromium plated medical mixer as "Cobra COB-NM-851" or other approved including joints to pipes	No	1		
5	15mm Chromium plated under tile stopcock as "Cobra Star 138" or other approved including joints to pipes	No	2		
6	15mm Chromium plated shower head as "Cobra COB-KP2-61" or other approved including joint to pipe	No	2		
7	Chromium plated flushvalve and spargepipe as "Cobra COB-FJ2-100" including joints to pipes	No	15		
8	Chromium plated urinal flushvalve as "Cobra COB-FJ6-000" including joints to pipes	No	6		
9	22mm Brass vacuum breaker including joint to pipe	No	4		
10	22mm Brass pressure control valve including joints to pipes	No	2		
11	22mm Brass relief valve including joints to pipes	No	2		
12	100 Litre 600KPa high pressure horizontal hot water geyser including fixing to wall and joints to pipes	No	1		
13	Ditto, but 200 litre	No	1		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Saint Gobian Isover geyser blanket to suit 100 litre geyser	No	1		
2	Ditto, to suit 200 litre geyser	No	1		
3	Galvanised sheet iron tray to suit 100 litre geyser	No	1		
4	Ditto, to suit 200 litre geyser	No	1		
5	25mm Approved circulating pump complete	No	2		
6	50mm UPVC overflow pipe	m	15		
7	Saint Gobian Isover insulation to 15mm pipe all in strict accordance with the manufacturers instructions	m	28		
8	22mm Ditto	m	41		
9	28mm Ditto	m	13		
<u>WATER RING MAIN TO FACTORY AREA</u>					
<u>Class II Copper Pipes</u>					
10	28mm Pipes fixed to structural steel member at a height of approximately 10.00m including G clamps, insulated clamps, threaded bars at not exceeding 0.50m centres and allowance for a cherry picker	m	21		
11	35mm Ditto	m	15		
12	42mm Ditto	m	6		
13	67mm Ditto	m	285		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

[illegible]

1	28mm Brass gate valve including joints to pipes	No	6		
2	35mm Ditto	No	1		
3	42mm Ditto	No	1		
4	67mm Ditto	No	8		
5	67mm Brass strainer including joints to pipes	No	1		
<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>					
6	75mm Pipe laid in and including trenches not exceeding 1,00m deep	m	94		
7	110mm Ditto	m	5		
8	160mm Ditto	m	3		
9	110mm Pipe laid in and including trenches exceeding 1.00 and not exceeding 2,00m deep	m	47		
<u>Extra For UPVC Fittings</u>					
10	75mm Flanged adaptor	No	9		
11	110mm Ditto	No	3		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	110mm Straight reducer	No	2		
2	110mm Bend	No	1		
3	110mm Reducing tee	No	1		
4	160mm Ditto	No	1		
5	160mm Socketed repair coupling	No	2		
<u>Galvanised Mild Steel Pipes And Fittings Including Wrapping With Canusa Wrapidbond System</u>					
6	80mm Vertical hydrant pipe	m	10		
7	80mm Extension piece 380mm long with one end plain and other end butt welded to bend	No	4		
8	Ditto, but 2186mm long	No	4		
9	100mm Extension piece 380mm long with one end plain and other end butt welded to bend	No	1		
10	Ditto, but 500mm long	No	5		
11	Ditto, but 2147mm long	No	1		
12	80mm Distance piece pipe flanged one side with length of 200mm flange to open end	No	1		
13	Ditto, but 440mm long	No	1		
14	Ditto, but 550mm long	No	1		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	80mm puddle pipe flanged on both sides with length of 630mm flange to flange	No	1		
2	Ditto, but 670mm long	No	1		
3	80mm VJ flanged adaptor	No	1		
4	100mm Ditto	No	1		
5	80mm Puddle flange	No	8		
6	100mm Ditto	No	2		
7	100 x 80mm Flanged reducer	No	2		
8	100mm 90 Degree bend flanged both sides	No	1		
9	80mm 90 Degree butt welded long radius bend	No	9		
10	100mm Ditto	No	1		
11	100mm Flanged tee	No	1		
	<u>Sundries</u>				
12	Excavate for, locate and cut into existing 160mm water main to receive new fittings (elsewhere measured)	No	1		
13	Cement concrete (25MPa) in thrust blocks at bends, tees, etc including necessary excavation, formwork, etc	m3	10		
14	80mm Galvanised mild steel flanged AVK RSV gate valve with spindle including joints to pipes	No	1		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	100mm Ditto	No	1		
2	80mm Galvanised mild steel flanged sensus Meistream combination water meter including joints to pipes	No	1		
3	100mm Galvanised mild steel flanged swing type non return valve with 16 bar operating pressure including joints to pipes	No	1		
4	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	5		
5	Concrete fire hydrant pedestal complete with reinforcement, formwork, paint, etc (refer to CSE Engineers drawing No E813/010)	No	5		
6	Twin booster pillar unit complete inclusive of all pipes and fittings, concrete pillar encasement, etc. (refer to CSE Engineers drawing No E813/010 : price to include all items from the 110mm tee piece upwards)	No	1		
7	Domestic and fire water valve meter valve complete (refer to CSEM Engineers drawing no E813/011)	No	1		
<u>SPRINKLER SERVICE</u>					
<u>Galvanised Mild Steel Pipes And Fittings Including Wrapping With Canusa Wrapidbond System</u>					
8	200mm Pipe laid in and including trenches not exceeding 1,00m deep	m	34		
9	200mm Extension piece 600mm long with one end plain and other end butt welded to bend	No	1		
Carried to Collection				R	
Bill No. 4 PLUMBING AND DRAINAGE MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

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Bill No. 4

PLUMBING AND DRAINAGE

COLLECTION

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Bill No. 4

PLUMBING AND DRAINAGE

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>EXTERNAL WORKS</u>			
	<u>ALL TRADES</u>			
	<u>Note:</u>			
	For Preambles see "Model Preambles for Trades" as published by the Association of South African Quantity Surveyors (2008 Edition).			
	<u>SITE CLEARANCE, ETC</u>			
1	Digging up and removing from site all rubbish, debris, vegetable matter, shrubs, small trees, etc and clearing site	m2	12,000	
2	Strip layer of top soil and deposit on site in spoil heaps for later re-use (elsewhere measured)	m3	500	
3	Strip layer of top soil and deposit on site in spoil heaps to be carted off site (elsewhere measured)	m3	1,642	
4	Load excavated topsoil from spoil heaps and cart away to a dumping site to be located by the contractor	m3	1,642	
5	Top soil from spoil heaps including any sifting, removal of weeds, branches, twigs, etc and spreading and shaping to required levels and slopes (100mm thickness)	m3	500	
	<u>BULK EARTHWORKS AND BUILDING PLATFORMS</u>			
6	Excavate in earth to open face to reduce levels over site to form platforms, etc and deposit on site in spoil heaps	m3	3,525	
7	Extra over for excavation in soft rock	m3	300	
	Carried to Collection			R
	Bill No. 5			
	EXTERNAL WORKS			
	MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

1	Ditto, in hard rock	m3	180		
2	Allow for keeping excavations free from water		Item		
3	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	3,075		
4	Selected filling obtained from excavated material in making up levels over site, etc compacted to 93% Mod AASHTO density	m3	450		
5	Earth filling using imported G7 material in making up levels over site and compacted to 93% Mod AASHTO density	m3	3,500		
6	Scarify to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	10,712		
7	Modified AASHTO density test on filling	No	40		
<u>PEDESTRIAN WALKWAYS</u>					
8	Trim and restore to original level, scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density	m2	448		
9	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	67		
10	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	67		
Carried to Collection				R	
Bill No. 5 EXTERNAL WORKS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Concrete 25MPa in pedestrian ramps	m3	1		
2	Broom finish to top of ramps to falls	m2	4		
3	Formwork to edge, riser, etc not exceeding 300mm high	m	12		
4	Type 193 mesh reinforcement in concrete ramps	m2	4		
5	200 x 150 x 55mm Thick Bosun Smooth Ethnic Grey pavers laid to approved patterns on and including a 20mm thick sand bed including grouting joints after laying all to comply with SABS 1058 and SABS 1200-MJ	m2	448		
6	Circular cutting and waste to last	m	16		
7	Extra over pavers for perimeter margin including any necessary thickening	m	499		
8	Ditto, circular on plan	m	16		
9	Precast concrete kerb (SABS 927 figure F10) size 100 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	150		
<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	3,030		
Carried to Collection				R	
Bill No. 5 EXTERNAL WORKS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	150mm Thick sub-base course of G7 material supplied by the contractor and compacted under roads, etc to 95% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	365
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	455
3	125mm Thick layer of C3 material supplied by the contractor and compacted under floors, etc to 98% Mod AASHTO density (Note: Quantity is measured in cubic metres)	m3	316
4	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	26
5	Reinforced cement concrete 30MPa/19mm stone with low water cement ratio of approximately 0.55 in roads	m3	486
6	Broom drag finish on top of concrete	m2	2,430
7	3 x 65mm Saw cut with top reamed out to 8 x 25mm in top of concrete	m	1,188
8	Clean out above saw cut and seal with Dow Corning 800 SL sealant including backing cord in strict accordance with the manufacturers instructions	m	1,188
9	10mm Closed cell expanded polyethelene pre-formed joint filler 200mm high with hinged blocking piece between concrete roads and precast concrete kerbs	m	424

Carried to Collection

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Bill No. 5
EXTERNAL WORKS
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Remove hinged blocking piece and seal 10 x 10mm cavity with Sika Pro -3WF polyurethane sealant in strict accordance with manufacturers instructions	m	424
2	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 etc	m	364
3	Formwork to edge, riser, etc not exceeding 300mm high	m	29
4	Type 193 mesh reinforcement in concrete ramps	m2	350
5	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	297
6	Ditto, circular on plan to a radius exceeding 4m	m	39
7	Ditto, circular on plan to a radius not exceeding 4m	m	18
8	Precast concrete channel (SABS 927 figure 14) size 300 x 125mm high finished smooth from the mould including excavation, backfilling, bedding and laying on a 15 MPa concrete bed against channel, jointing, pointing, etc	m	78
9	Ditto, circular on plan to a radius exceeding 4m	m	12
10	Ditto, circular on plan to a radius not exceeding 4m	m	6

Carried to Collection

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Bill No. 5
EXTERNAL WORKS
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Precast concrete kerb with channel (SABS 927 figure 8) size 450 x 220mm 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	71		
2	Standard stop sign complete including pole, concrete base, excavation, etc	No	2		
3	Ditto, but yield sign	No	1		
4	Ditto, but speed restriction sign	No	2		
5	Ditto, but disabled parking sign	No	1		
6	Prepare surface and apply bitumen based roadmarking paint to line concrete roadway 100mm wide	m	129		
7	Ditto, but 150mm wide	m	15		
8	Ditto, but 300mm wide	m	10		
9	Ditto, but 600mm wide	m	20		
10	Ditto, but painted arrow sign facing one direction 4.00m long	No	4		
11	Ditto, but painted arrow sign facing two directions 4.00m long	No	4		
12	Ditto, but painted disabled parking bay sign 2.00m long	No	1		
13	Ditto, but painted sign 2.00m high to read "STOP"	No	2		
Carried to Collection				R	
Bill No. 5 EXTERNAL WORKS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

<u>SCREEN WALL AT MAIN GATE ENTRANCE</u>					
1	Excavate for surface trenches not exceeding 2.00m deep	m3	16		
2	Extra over for excavation in soft rock	m3	4		
3	Ditto, in hard rock	m3	4		
4	Risk of collapse not exceeding 1.50m deep to trench excavations	m2	40		
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	16		
7	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	8		
8	Cement concrete 20MPa/19mm stone in footings cast against excavated surfaces	m3	4		
9	Steel reinforcing bars of various diameters to concrete footings	t	0.60		
10	One brick wall	m2	80		
11	155mm Brick mesh reinforcement in walls	m	430		
12	Extra over brickwork for faced brickwork in selected Corobrik Silver Grey Travertine FBX facebricks	m2	70		
Carried to Collection				R	
Bill No. 5					
EXTERNAL WORKS					
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	External plaster to walls	m2	70		
2	Ditto, in narrow widths	m2	8		
3	Prepare surface and apply one coat primer and two coats Wall n All to external plastered walls	m2	78		
<u>PRECAST CONCRETE STACK BLOCK RETAINING WALLS</u>					
4	Excavate for surface trenches and bases not exceeding 2.00m deep	m3	75		
5	Extra over for excavation in soft rock	m3	16		
6	Ditto, in hard rock	m3	8		
7	Risk of collapse not exceeding 1.50m deep to trench excavations	m2	208		
8	Allow for keeping excavations free from water		Item		
9	Allow for any trimming to existing bank to the correct angle suitable to receive the stack block wall	m2	220		
10	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the contractor	m3	75		
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	205		
12	Top soil supplied by the Contractor including placing and lightly compacting into concrete stack block walls	m3	75		
Carried to Collection				R	
Bill No. 5 EXTERNAL WORKS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Cement concrete 20MPa/19mm stone in footings cast against excavated surfaces	m3	19		
2	Type 617 mesh reinforcement in concrete footings	m2	94		
3	Retaining wall formed of "Terraforce V8 400" blocks 500mm high overall laid in close configuration (backfilling and trimming of banks elsewhere measured)	m2	228		
	<u>TEMPORARY FENCE ALONG ROADWAY TO HELP WITH DUST CONTROL</u>				
4	Temporary fence 1.80m high formed of Weldmesh fence with 50 x 100mm apertures covered with 70% shade cloth cladding, six strands 2.24mm diameter strain straining wire with and including 75-100mm diameter CCA timber intermediate posts 2.40m long at 3.00m centres including excavation for posts, backfilling, etc	m	150		
5	Extra for 75-100mm diameter CCA timber stay posts 1.80m long set in and including concrete 15MPa base	No	12		
6	Extra for 100-125mm diameter CCA timber straining posts 2.70m long set in and including concrete 15MPa base	No	6		
7	Take down and remove temporary fence once the contract has been completed	m	150		
8	Extra over for excavation in soft rock	m3	2		
9	Ditto, in hard rock	m3	1		
	Carried to Collection			R	
	Bill No. 5 EXTERNAL WORKS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

Bill No. 5

EXTERNAL WORKS

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Bill No. 5
EXTERNAL WORKS
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>PROVISIONAL SUMS</u>			
	The tenderer's attention is drawn to the fact that all Provisional Sums stated are nett and do not include builder's discount.			
	<u>Electrical Installation Including Bulk Supply, Access Control And Lightning Protection</u>			
1	Provide the sum of R 7 510 000-00 (seven million five hundred and ten thousand rand) for Electrical Installation Including Bulk Supply, Access Control And Lightning Protection supplied and fixed complete	Item		7,510,000.00
2	Allow for profit	Item		
3	Allow for attendance	Item		
	<u>Builders Work In Connection With Electrical Installation</u>			
	<u>Kabelflex Sleeve Pipes And Fittings 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>			
4	50mm Pipe laid in and including trenches not exceeding 1,00m deep	m	75	
5	Ditto, but set of two 50mm pipes	m	25	
6	110mm Pipe laid in and including trenches not exceeding 1,00m deep	m	30	
	Carried to Collection		R	
	Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

1	Ditto, but set of two 110mm pipes	m	50
2	Ditto, but set of six 110mm pipes	m	50
3	160mm Pipe laid in and including trenches not exceeding 1,00m deep	m	20
4	Ditto, but set of two 160mm pipes	m	120
5	Ditto, but set of six 160mm pipes	m	15
6	Extra for 50mm slow bend	No	6
7	110mm Ditto	No	8
8	160mm Ditto	m	4
9	4m2 Galvanised draw wire drawn into pipe (elsewhere measured)	m	905
10	250mm Wide x 500mm long precast concrete cable slab placed over sleeve pipes	No	385
11	Precast concrete cable marker complete with galvanised wire fastened to cable/cable sleeve pipe and aluminium marker plate with descriptive inscription	No	55
12	Skull and crossbones warning tape placed over sleeve pipes	m	905

Carried to Collection

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Bill No. 6
PROVISIONAL SUMS
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Manhole size 0.60 x 0.60 x 0.60m deep complete formed of 150mm thick concrete bottom, one brick walls plastered on inside face, smooth finished concrete surround, heavy duty manhole cover and frame as Akseess 2100 including excavations, cart off excess material, etc	No	4		
2	Ditto, size 0.80 x 0.80 x 0.80m deep	No	4		
3	Ditto, size 1.00 x 1.00 x 1.00m deep	No	3		
4	Extra over excavations for sleeve pipe trenches, etc in earth for excavation in soft rock	m3	40		
5	Ditto, in hard rock	m3	20		
<p><u>Note:</u></p> <p>In remeasuring the cubic quantity of extra for excavations in soft, hard rock, etc for drain trenches, etc the following basis shall apply:</p> <p>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.</p> <p>Manholes - Manholes shall be taken to the full extent in width and depth and no more.</p> <p><u>Air Conditioning And Ventilation</u></p>					
6	Provide the sum of R 2 660 000-00 (two million six hundred and sixty thousand rand) for Air Conditioning And Ventilation supplied and fixed complete			Item	2,660,000.00
7	Allow for profit			Item	
Carried to Collection					R
<p>Bill No. 6</p> <p>PROVISIONAL SUMS</p> <p>MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A</p>					

1	Allow for attendance		Item		
<u>Builders Work In Connection With Air Conditioning</u>					
2	Concrete 25MPa in plinths	m3	1		
3	Formwork to edge, riser, etc not exceeding 300mm high	m	6		
4	Type 617 mesh reinforcement in concrete footings	m2	3		
5	75mm PVC sleeve pipe in ground including excavations, etc	m	24		
6	Extra for 75mm slow bend	No	6		
7	Leave or form opening in 360mm cavity wall size 250 x 250mm	No	6		
8	Form recess in brick wall for fire alarm control panel size 500 x 300mm	No	1		
9	Make good chase in plaster wall for 20mm conduit	m	16		
10	Ditto, 25mm conduit	m	32		
11	Ditto, 50mm diameter draw box	No	10		
12	Ditto, 100 x 100mm back box	No	8		
<u>Fire Detection</u>					
13	Provide the sum of R 575 000-00 (five hundred and seventy five thousand rand) for Fire Detection supplied and fixed complete		Item		575,000.00
Carried to Collection				R	
Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

1	Allow for profit	Item		
2	Allow for attendance	Item		
	<u>Fibreglass Gutters And Geberit Pluvia Rainwater System Including Aluminium Rainwater Goods</u>			
3	Provide the sum of R1 600 000-00 (one million six hundred thousand rand) for Fibreglass Gutters And Geberit Pluvia Rainwater System Including Aluminium Rainwater Goods	Item	1,600,000.00	
4	Allow for profit	Item		
5	Allow for attendance	Item		
	<u>Isowall Partitions, Suspended Ceilings, Etc</u>			
6	Provide the sum of R 125 000-00 (one hundred and twenty five thousand rand) for Isowall Partitions, Suspended Ceilings, Etc supplied and fixed complete	Item	125,000.00	
7	Allow for profit	Item		
8	Allow for attendance	Item		
	<u>Joinery Installation</u>			
9	Provide the sum of R 45 000-00 (forty five thousand rand) for Joinery Installation supplied and fixed complete	Item	45,000.00	
10	Allow for profit	Item		
11	Allow for attendance	Item		
	Carried to Collection		R	
	Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

<u>Aluminium Windows, Louvres, Doors, Viewing Panels, Etc</u>			
1	Provide the sum of R 400 000-00 (four hundred thousand rand) for Aluminium Windows, Louvres, Doors, Viewing Panels, Etc supplied and fixed complete	Item	400,000.00
2	Allow for profit	Item	
3	Allow for attendance	Item	
<u>Signage</u>			
4	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
5	Allow for profit	Item	
6	Allow for attendance	Item	
<u>Steel Steps With Balustrading</u>			
7	Provide the sum of R 45 000-00 (forty five thousand rand) for Steel Steps With Balustrading supplied and fixed complete	Item	45,000.00
8	Allow for profit	Item	
9	Allow for attendance	Item	
<u>Bollards And Column Protectors</u>			
10	Provide the sum of R 150 000-00 (one hundred and fifty thousand rand) for Bollards And Column Protectors supplied and fixed complete	Item	150,000.00
Carried to Collection		R	
Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

1	Allow for profit	Item		
2	Allow for attendance	Item		
	<u>Armco Barrier Rails</u>			
3	Provide the sum of R 95 000-00 (ninety five hundred thousand rand) for Armco Barriers Rails supplied and fixed complete	Item	95,000.00	
4	Allow for profit	Item		
5	Allow for attendance	Item		
	<u>Fencing And Gates</u>			
6	Provide the sum of R 1 200 000-00 (one million two hundred thousand rand) for Fencing And Gates supplied and fixed complete	Item	1,200,000.00	
7	Allow for profit	Item		
8	Allow for attendance	Item		
	<u>Painted Floor Chevrons</u>			
9	Provide the sum of R 20 000-00 (twenty hundred thousand rand) for Painted Floor Chevrons supplied and fixed complete	Item	20,000.00	
10	Allow for profit	Item		
11	Allow for attendance	Item		
	Carried to Collection		R	
	Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

<u>Fire Protection Including Sprinkler Installation, Fire Hose Reels And Internal Hydrants</u>				
1	Provide the sum of R 2 425 000-00 (two million four hundred and twenty five thousand rand) for Fire Protection Including Sprinkler Installations, Fire Hose Reels And Internal Hydrants supplied and fixed complete		Item	2,425,000.00
2	Allow for profit		Item	
3	Allow for attendance		Item	
<u>Builders Work In Connection With Fire Protection</u>				
4	Core through 200mm reinforced concrete slab 250mm diameter	No	2	
5	Leave or form opening in one brick wall 110mm diameter	No	8	
6	Ditto, 220mm diameter	No	2	
7	Form opening metal side cladding 110mm diameter including necessary flashing	No	4	
8	Ditto, 220mm diameter	No	1	
<u>Provision For Two Students</u>				
9	Provide the sum of R 225 000-00 (two hundred twenty five thousand rand) for Provision For Two Students		Item	225,000.00
10	Allow for profit		Item	
11	Allow for attendance		Item	
Carried to Collection			R	
Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

Landscaping

- 1 Provide the sum of R 480 000-00 (four hundred and eighty thousand rand) for Landscaping supplied and fixed complete

Item 480,000.00

- 2 Allow for profit

Item

- 3 Allow for attendance

Item

Clearing Site Of Bush, Trees, Etc., Prior To Bulk Earthworks

- 4 Provide the sum of R 180 000-00 (one hundred and eighty thousand rand) for Clearing Site Of Bush, Trees Etc., Prior To Bulk Earthworks

Item 180,000.00

- 5 Allow for profit

Item

- 6 Allow for attendance

Item

The Following Items To Be Measured Out And Priced At Bill RatesBudgetary Allowances

- 7 Provide the budgetary allowance of R 275 000-00 (two hundred and seventy five thousand rand) for Gate House

Item 275,000.00

- 8 Provide the budgetary allowance of R 285 000-00 (two hundred and eighty five thousand rand) for Refuse Enclosure

Item 285,000.00

- 9 Provide the budgetary allowance of R 60 000-00 (sixty thousand rand) for Turnstyle Canopy

Item 60,000.00

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Bill No. 6
PROVISIONAL SUMS
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

1	Provide the budgetary allowance of R 100 000-00 (one hundred thousand rand) for galvanised framework to receive diagonal cladding	Item	100,000.00
Carried to Collection		R	
Bill No. 6 PROVISIONAL SUMS MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A			

Bill No. 6

PROVISIONAL SUMS

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Bill No. 6

PROVISIONAL SUMS

MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p> <p><u>OCCUPATIONAL HEALTH AND SAFETY AND COVID 19</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> <p>Carried to Collection</p> <p>Bill No. 7 OCCUPATIONAL HEALTH AND SAFETY AND COVID 19 MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A</p>			
		R	

All Costs to comply with the obligations and demands of the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, Covid 19 regulations 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 and Covid 19' no additional claims in respect of compliance with the above mentioned will be considered

OCCUPATIONAL HEALTH AND SAFETY

Full time safety officer and COVID-19 Compliance Officer

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. The full time construction health and safety officer shall also be responsible for management of COVID 19 compliance	Mnths	9.00
	<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

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OCCUPATIONAL HEALTH AND SAFETY AND COVID 19
MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

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>					
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MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

<u>Health and safety education</u>				
1	Allow for all compulsory health and safety awareness programme (e.g. Inductions, toolbox Talks, Safety Promotions, H&S related training, etc.)	Item		
<u>COVID 19</u>				
<u>Occupational Health & Safety Obligations</u>				
2	Update of the Contractor's site specific COVID-19 Health and Safety Plan	Item		
3	Principal Contractor's time related obligations in respect of the COVID-19 Workplace Regulations (Anticipated Period)	Mnths	9.00	
<u>Provision of Personal Protective Equipment (PPE)</u>				
4	(a) Plastic face shield mask (quantity to be aligned with scaling in employment)	Item		
5	(b) Disposable gloves (quantity to be aligned with scaling in employment)	Item		
6	(c) Cloth face masks (quantity to be aligned with scaling in employment)	Item		
<u>Cost of medical certificates and medical surveillance</u>				
7	(a) Initial (baseline) medical examinations (quantity to be aligned with risk assessment and scaling in employment)	Item		
8	(b) Periodic and exit examinations (quantity to be aligned with risk assessment and scaling in employment)	Item		
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MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A				

<u>Education & Training</u>					
1	Initial COVID-19 training (quantity to be aligned with risk assessment and scaling in employment)		Item		
2	Weekly COVID-19 toolbox talks	Mnths	9.00		
<u>Facilities and equipment</u>					
3	(a) Separate office (16m2) with windows and a door for use by COVID-19 Compliance Officer including electricity connection and supply	No			
4	(b) Provision and upkeep of infrared handheld thermometer	No			
<u>Supply and fix COVID-19 signs</u>					
5	Hand Hygiene (800 x 800mm)	No			
6	Sanitisation Station (297 x 400mm)	No			
7	Face Mask (297 x 420mm)	No			
8	Social Distancing (400 x 400mm)	No			
9	Prevention Tips (297 x 420mm)	No			
<u>Cleaning materials and hand sanitizers</u>					
10	Monthly disinfection of facilitie	Mnths	9.00		
11	Supply and upkeep of hand sanitizer dispensors and consumables (paper towel)	Mnths	9.00		
<u>ENVIRONMENTAL</u>					
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MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A					

<u>Environmental</u>				
1	Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water	Item		
2	Provide for the adequate and safe collection and disposal of waste material from site by an approved method	Item		
3	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		
4	Provide for stockpiling of topsoil for re-use	Item		
5	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 AND COVID 19 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	
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OCCUPATIONAL HEALTH AND SAFETY AND COVID 19
COLLECTION

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MANUFACTURING FACILITY IN ZONE 1A EB-DRG-11-20-Z1A

[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/DRG/ 11/20/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**

C2.4: Guarantor Proforma Letter of Intent

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

TENDER No. EB/DRG/11/20/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,

ELIDZ: CONSTRUCTION OF A MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ - TENDER No. EB/DRG/11/20/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 of
the ELIDZ.

Yours faithfully,

.....
Guarantor

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/DRG/11/20/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:	<p style="text-align: center;">Note:</p> <p>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.</p>
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:

- 2.1 Agreement and contract data
- 2.2 Pricing data
- 2.3 Scope of work
- 2.4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 2.1 to 2.4 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 ____

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 650 000	1%	%	R
Grade 3	R 2 000 000	1%	%	R
Grade 4	R 4 000 000	3%	%	R
Grade 5	R 6 500 000	5%	%	R
Grade 6	R 13 000 000	6%	%	R
Grade 7	R 40 000 000	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 NAME: CAPACITY: DATE: SIGNATURE: WITNESS 1
	NAME:
 SIGNATURE: WITNESS 2
	NAME: