

Automould Extensions – Rev2

Tender No.
EB/AUT/EXT/10/19/Z1A



Tender

**EXTENSION TO THE AUTOMOULD MANUFACTURING
FACILITY IN ZONE 1A OF THE ELIDZ**

AT THE

EAST LONDON INDUSTRIAL DEVELOPMENT ZONE

**CONTRACT NO: EB/AUT/EXT/10/19/Z1A
EXTENSION OF AUTOMOULD 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

Latitude Quantity Surveyors
Office 2A, 123 Western Avenue
Vincent, East London

Contact Person: Ziyanda Manzana
Tel : 043 – 742 2884
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Tenderer _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

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PART C1: AGREEMENTS AND CONTRACT DATA

C1.1 CONTRACT DATA EC

C1.1: CONTRACT DATA – EMPLOYER

	<p>The Conditions of Contract are clauses 1 to 42 of the JBCC series 2000 Principal Building Agreement (Edition 5 of July 2007) prepared by the Joint Building Contracts Committee. Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</p>
	<p>Definitions The definitions used in this document and the interpretation thereof are as listed in the Principal Building Agreement. The word or phrase of a definition is in bold text and shall bear the meaning assigned to it in the Principal Building Agreement. Where such word or phrase is not highlighted it shall bear the meaning consistent with the context of its use. The listed defined word or phrase does not qualify as a definition where information required to be stated in the contract data has not been provided.</p>
	<p>Provision of Contract Data Spaces requiring information must be filled in, shown as “not applicable” or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided, the information should be annexed hereto and cross referenced to the applicable clause of the contract data.</p>
	<p>Reference Clauses Where relevant the Principal Building Agreement clause applicable to the required information is printed in italics under the Contract Data clause number ie. <i>[27.4.2]</i></p>
1.0	CONTRACTING AND OTHER PARTIES
1.1 <i>[1.2]</i>	<p>Employer: East London Industrial Development Zone SOC Ltd</p> <p>Postal address: P O BOX 5458 Greenfields East London Tel: (043) 702 8200 Fax: (043) 7028251 Email: gary@elidz.co.za Tax/VAT registration No. 4900 213 598</p> <p>Physical address: Lower Chester Road Sunnyridge East London Code 5201</p>
1.2 <i>[5.1]</i>	<p>Principal Agent Smale & Partners Architects</p> <p>Physical address: 123 Western Avenue, Vincent, East London Code 5247 Tel: 043 726 9327 Fax: 043 726 9329 Email: info@smale.co.za</p>
1.3 <i>[5.2]</i>	<p>Agent (1) Project Managers Lukhozi Consulting Engineers Agent's service: PROJECT MANAGERS Physical address:</p>

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

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	<p>The Quarry, Quartzite Dr, Selborne, East London Code 5201 Tel: 043 721 1321 Fax: 086 663 7202 Email: c.brink@lukhozi.co.za</p>
1.4 [5.2]	<p>Agent (2) Agent's services: ARCHITECTS Smale and Partner Architects Physical address: 123 Western Avenue, Vincent, East London Code 5247 Tel: 043 726 9327 Fax: 043 726 9329 Email: info@smale.co.za</p>
1.5 [5.2]	<p>Agent (3) Latitude Quantity Surveyors Agent's service: QUANTITY SURVEYOR Physical address: 123 Western Avenue, Vincent, East London Code 5247 Tel: 043 742 2884 Fax: 086 685 6559 Email: admin@latitudeqs.co.za</p>
1.7 [5.2]	<p>Agent (4) Nako Iliso Agent's service: CIVIL ENGINEERS Physical address: 6 Stewart Drive, EOH Building, Berea, East London Code 5201 Tel: 043 721 1592 Fax: 086 573 4263 Email: herman.pietersen@nakogroup.com</p>
1.8 [5.2]	<p>Agent (5) HSC Consulting Agent's service: STRUCTURAL ENGINEERS Physical address: 18 St Mark Rd, Southernwood, East London Code 5200 Tel: 043 743 9528 Fax: 043 743 5347 Email: hsc@hsc.co.za</p>
1.9 [5.2]	<p>Agent (6) Aurecon Agent's service: ELECTRICAL ENGINEERS Physical address: 1 Pearce St, Berea, East London Code 5241 Tel: 043 721 0900 Fax: N/A Email: eastlondon@aurecongroup.com</p>
1.10 [5.2]	<p>Agent (7) Element Consulting Engineers Agent's service: MECHANICAL ENGINEERS Physical address:</p>

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

EXTENSIONS TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ -
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	52 Stewart Dr, Baysville, East London Code 5241 Tel: 043 726 0074 Fax: 043 726 0600 Email: mheyns@eceng.co.za	
1.11 [5.2]	Agent (8)	
	To be appointed	
	Agent's service: SHEQ Consultant	
	Physical address: Code Tel: Fax: Email:	
1.12 [5.2]	Agent (9)	
	To be appointed	
	Agent's service: Environmental Consultant	
	Physical address: Code Tel: Fax: Email:	
1.12 [5.5]	Interest of principal agent or other agents in the project	No
1.12	The principal agent named in 1.3 is responsible for the preparation of the contract data schedule. Failure to complete the contract data schedule in full may result in the tender being disqualified.	
2	CONTRACT AND SITE INFORMATION	
2.1 [1.7]	The law applicable to this agreement shall be that of the	Republic of South Africa
2.2 [1.1]	Works identification: The expansion of an existing manufacturing facility in Zone 1A of the ELIDZ	
2.3 [1.1]	Site description:	The site is in Zone1A of the EAST LONDON IDZ (Refer to Envelope A Volume 1 of 2: Technical Specification Part C4 Site Information for detail)
2.4 [15.2.1]	Possession of the site is to be given on:	PROVISIONAL: 06 November 2020
2.5 [15.3]	Period for the commencement of the works after the contractor takes possession of the site: (working days)	1
2.6 [15.4]	Completion of the works in sections is required	Yes
[28.0]	Number of sections	2
2.7 [3.3] [31.16.2]	Waiver of the contractor's lien or right of continuing possession is required	Yes
2.8 [16.1]	Defined restrictions to the site area. Where "yes" the specific requirements are described below or detailed in the contract documents:	No
2.9 [16.4]	Geotechnical investigation of the site has been undertaken. Where "yes" results are included in the contract documents.	Yes
2.10 [16.6]	Existing premises will be occupied. Where "yes" the specific requirements are described below or detailed in the contract documents	Yes

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

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2.11 [16.7]	Provision of temporary services is required. Where "yes" the specific requirements are described below or detailed in the contract documents			Yes	
2.11.1	Water	Option A	Contractor	his cost	
		Option B	Employer	free of charge	
		Option C	Employer	metered (contractor cost)	C
2.11.2	Electricity	Option A	Contractor	his cost	
		Option B	Employer	free of charge	
		Option C	Employer	metered (contractor cost)	C
2.11.3	Telecom	Option A	Contractor	his cost	A
		Option B	Employer	free of charge	
		Option C	Employer	metered (contractor cost)	
2.11.4	Ablutions	Option A	Contractor	his cost	A
		Option B	Employer	free of charge	
2.12 [16.8]	Protection of existing trees and shrubs is required. Where "yes" the specific requirements are described below or detailed in the contract documents			No	
3.0	INSURANCES AND SECURITIES				
3.1	Contract works insurance to be effected by the:		(Employer/ Contractor)	Employer	
[10.1.1]	For the sum of		(amount)	Contract Sum + 18%	
[12.6]	The contractor is responsible, in the case of storm, subsidence, landslip or collapse, earthquake or earth tremor, fire and lightning, theft/ malicious damage, for the deductible of		(amount)	R 25,000	
	The contractor is responsible, in all other cases, for the deductible of		(amount)	R 10,000	
3.2	Supplementary / Special insurance to be effected by		(Employer/ Contractor)	Employer	
[10.1.2]	For the sum of		(amount)	Contract Sum + 18%	
[11.1] [11.2] [11.3] [12.6]	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 R 25,000.00 per incident.				
3.3	Public liability insurance to be effected by		(Employer/ Contractor)	Joint Names	
[10.1.3]	Spread of Fire for the Sum of		(amount)	R 250,000	
	All other cases for the Sum of		(amount)	R20,000,000	
[12.6]	The contractor is responsible, in the case of Damage to Underground Services, for the deductible of		(amount)	R 25,000	
	The contractor is responsible, in the case of Third Party Damage, for the deductible of		(amount)	R 15,000	
3.4	Support insurance to be effected by the			Employer	
[11.1.1]	For the sum of		(amount)	NA	
	With a deductible of		(amount)	NA	
3.5	Special insurance to be effected by		(Employer/ Contractor)	NA	
	Type				
	For the sum of		(amount)	NA	
	With a deductible of		(amount)	NA	

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

4.0 PRACTICAL COMPLETION DATES AND PENALTIES			
4.1	For the works as a whole		Penalty Amount
[24.3.1] [30.1] [30.2] [30.3]	The date for practical completion and the penalty per calendar day		NA
4.2	For the works in sections		Penalty Amount
[24.3.1] [28.1]	The date for practical completion and the penalty per calendar day	Section 1	18 Jan 21
		Section 2	30 Jun 21
			R 20,000
			R 20,000
5.0 DOCUMENTS AND GENERAL			
5.1	No of Construction documents to be supplied to the contractor		3
[3.7]			
5.2	The priced document may be used as a specification of materials and goods and work methods		No
[3.9]			
5.3	The contractor shall provide a schedule of rates		No
[3.10]			
5.4	Changes made to JBCC standard documents		Yes
[3.11]		(Addendum No)	NA
5.5	On acceptance of the tender the priced document is to be submitted within the stated working days	(No. of)	The priced document is to be submitted as part of the tender and returned as part of Envelope B: Financial Proposal
[3.11]			
5.6	Work to be undertaken by direct contractors		Yes
[22.2]		Installation of crane	
5.7	On achievement of practical completion the contractor is to hand over manuals etc. related to the works as listed below:		
[24.9]	(1)	Electrical Installation	(2)
	(3)	Fire Detection Installation	(4)
		Sprinkler Installation	Air Conditioning Equipment Installation
5.8	Interim payment certificate to be issued by	(Date of Month)	25 th day of the month
6.0 CHANGES MADE TO THE STANDARD JBCC DOCUMENT			
	Note: All changes in detail must be listed below or provided in	(Addendum No)	NA
1.1	The definition of " BILLS OF QUANTITIES " is amended by replacing it with the following: BILLS OF QUANTITIES: The document drawn up in accordance with the Standard System of Measuring Building Work 1999 sixth Edition (Revised). The contractor shall have priced the document to reflect the contract sum.		
1.1	The definition of " CONSTRUCTION PERIOD " is amended by replacing it with the following: CONSTRUCTION PERIOD: means the period commencing on the date that possession of the site is given to the contractor and ending on the date of practical completion.		

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

1.1	<p>The definition of “WORKING DAYS” is amended by replacing it with the following:</p> <p>WORKING DAYS: Twenty-four (24) hour days commencing at midnight (00:00) which excludes Sundays and statutory holidays.</p>
3.1	<p>Clause 3.1 shall be amended as follows:</p> <p>Replace clause 3.1 with No clause</p>
3.3	<p>Delete the following in the third line of clause 3.3</p> <p>“of having received a payment guarantee from the employer [3.1]”</p>
7.2	<p>Add the following clause after clause 7.1:</p> <p>7.2 Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Envelope A: Technical Proposal: Volume 1 of 2 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.</p>
7.3	<p>Add the following clause after clause 7.2:</p> <p>7.3 Construction Environmental Management Plan (C4): The Construction Environmental Management Plan (CEMP) REV8 January 2016, 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 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.</p>
14.3.2	<p>Add the following to the end of clause 14.3.2:</p> <p>The expiry date for the security to be provided in terms of clause 14.3 and 14.4 shall be one hundred and eighty (180) calendar days after the date for practical completion for the work as a whole.</p> <p>Should the terms of the construction guarantee have an expiry date add the following clause after clause 5.2 on the JBCC Construction Guarantee form:</p> <p>5.3. The guarantor has failed to extend the guarantee when requested to do so by the Employer if the certificate of final complete 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 5.0</p>
15.1.2	<p>Documents to be provided five (5) working days after the acceptance of the tender</p> <ul style="list-style-type: none"> • OHS Plan/File • Construction Guarantee • Construction Programme

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

18.0	<p>Add the following clause after clause 18.4.</p> <p>18.5 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.</p>
19.1	<p>Amend clause 19.1 as follows:</p> <p>Delete "Where required in the priced document"</p>
19.1.1	<p>Amend clause 19.1.1 as follows:</p> <p>Substitute clause 19.1.1 with the following:</p> <p>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.</p> <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>
19.1.2	<p>Add the following to the end of Clause 19.1.2:</p> <p>The office accommodation for meetings is to be adequately sized and equipped with a sound working table and chairs to accommodate at least thirty (30) people for site meetings. The room is to be well vented with air-conditioning and fitted with two large white boards and pin boards with markers and erasers. Two plug points to be provided within the room.</p>
19.2	<p>Amend the third sentence to clause 19.2 as follows:</p> <p>The contractor shall provide and erect a project notice board size 2.5m x 3.5m.</p>
19.3	<p>Add the following to the end of clause 19.3:</p> <p>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 8 January 2016 included in Part C3.4 in Envelope A: Volume 1 of 2 of these tender documents.</p>
29.2.1	<p>Clause 29.2.1 shall be amended as follows:</p> <p>Replace clause 29.2.1 with No clause</p>
31.9	<p>Amend by substituting seven (7) calendar days with thirty (30) calendar days.</p>
34.10	<p>Amend by substituting seven (7) calendar days with thirty (30) calendar days.</p>

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

31.5.3	<p>The Contract is to be adjusted using CPAP indices. (Clause 32.13) [31.5.3]: Yes. Base month is SEPTEMBER 2020</p> <p>Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual for use with P0151 indices published by Statistics South Africa, dated 1 January 2013 and any amendments thereto:</p>				
	<p>1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the Provisional Bills of Quantities</p>				
	<p>2) All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index for Work Group 160 Electrical Installation. In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be in accordance with Work Group 170</p>				
	<p>3) With reference to Work Group 190 a proportion of the value related preliminaries pro rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions, if Option A has been selected for the adjustment of preliminaries</p>				
	<p>4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by tenderers, will not be permitted</p>				
	<p>5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual the factor of 0.55 shall be substituted by 1.45</p>				
31.16.2	<p>The Employer will not be providing a payment guarantee for the waiver of the Contractor's lien or right of continuing possession of the site.</p>				
7.0	DECLARATION BY THE PRINCIPAL AGENT				
	<p>I, the principal agent named in 1.2 above, declare that the information provided above is provisional at the time of calling for tenders. Where necessary, should any of the above information need to be varied, tenderers will be forthwith informed thereof in writing</p>				
	<table border="1"> <tr> <td data-bbox="991 1171 1543 1200"></td> </tr> <tr> <td data-bbox="991 1207 1543 1236">Principal Agent</td> </tr> <tr> <td data-bbox="991 1243 1543 1272"></td> </tr> <tr> <td data-bbox="991 1279 1543 1299">Date</td> </tr> </table>		Principal Agent		Date
Principal Agent					
Date					

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

C1.2 JBCC FORM OF GUARANTEE

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 5, July 2007. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Provisional Bills of Quantities are recited.
- 3 It will be assumed that prices included in the Provisional Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 4 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 5 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
- 6 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Bill No.1 (Preliminaries) of the Provisional Bills of Quantities.
- 7 The Provisional Bills of Quantities are not intended for the ordering of materials. Any ordering of materials, based on the Provisional Bills of Quantities, is at the Contractor's risk.

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

C2.2 PROVISIONAL BILLS OF QUANTITIES

(TO BE COMPLETED IN BLACK INK AND RETURNED)

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

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1 : PRELIMINARIES</u>			
<u>BILL NO.1 : PRELIMINARIES</u>			
<u>PRELIMINARIES</u>			
<u>NOTES:</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<p>The JBCC Series 2000 Principal Building Agreement (July 2007 Edition 5.0 Reprint 1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p>			
<p>The JBCC Principal Building Agreement Contract Data EC & CE form an integral part of this agreement.</p>			
<p>The ASAQS Preliminaries (November 2007 Edition) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described.</p>			
<p>Contractors are referred to the abovementioned documents for the full intent and meaning of each clause</p>			
<p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents.</p>			
<p>Where any item is not relevant to this specific agreement such item is marked N/A (signifying not applicable).</p>			
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<p>Section No. 1 Bill No. 1 PRELIMINARIES</p>			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward

R

PREAMBLES FOR TRADES

The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.

Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles.

The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses of the aforementioned JBCC Principal Building Agreement.

Section B : A recital of the headings of the individual clauses of the aforementioned Preliminaries document.

Section C : Any special clauses to meet the particular circumstances of the project.

PRICING OF PRELIMINARIES

Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T).

Carried Forward

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Section No. 1
Bill No. 1
PRELIMINARIES

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

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SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions

1 Clause 1.0 - Definitions and interpretation Item

Objective and preparations

2 Clause 2.0 - Offer acceptance and performance obligations Item

3 Clause 3.0 - Documents Item

4 Clause 4.0 - Design responsibility Item

5 Clause 5.0 - Employer's agents Item

6 Clause 6.0 - Contractor's site representative Item

7 Clause 7.0 - Compliance with laws and regulations Item

Health and Safety

Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Volume 1 of 2 C3.2 for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [7.1]

Construction Environmental Management Plan (C3)

Carried Forward

R

Section No. 1
 Bill No. 1
 PRELIMINARIES

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

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 3.3 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.

- | | | |
|----|------------------------------------|------|
| 8 | Clause 8.0 - Works risk | Item |
| 9 | Clause 9.0 - Indemnities | Item |
| 10 | Clause 10.0 - Insurances | Item |
| 11 | Clause 11.0 - Special Insurances | Item |
| 12 | Clause 12.0 - Effecting Insurances | Item |
| 13 | Clause 13.0 - Assignment | Item |
| 14 | Clause 14.0 - Security | Item |

Execution

- | | | |
|----|--|------|
| 15 | Clause 15.0 - Preparation for and execution of the works | Item |
| 16 | Clause 16.0 - Site and access | Item |
| 17 | Clause 17.0 - Contract instructions | Item |
| 18 | Clause 18.0 - Setting out of the works | Item |

Carried Forward

R

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Brought Forward

R

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.

19 Clause 19.0 - Temporary works and plant

Item

a) Site Enclosure

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, fans and walkways, overhead protection against falling objects and materials, security fences, etc. required by prevailing bylaws, the SHE Act and/or his own site requirements. Allowance must further more be made for periodic adjustment of any enclosure or protection and for their eventual removal. Other than the construction site itself, access is limited to the immediate area surrounding the works as enclosed by the entrance to the site. The limit of access and exist will be pointed out to the contractor by the Principal Agent at the pre-tender site inspection.

b) Temporary Barriers

Security barrier average 8m high with splayed top to follow slope of roof formed of 19mm shutter board securely fixed to and including temporary scaffolding for support, all joints between boards and between boards and floor/roof to be taped with duct tape etc

Security barrier 4.8m high formed of 19mm shutter board securely fixed to and including temporary scaffolding for support, all joints between boards and between boards

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c) Site Establishment

All site establishment, offices and storage of materials will be strictly limited to an area outside the site across the existing tarred roadway (see attached drawing at back of Bill), which must be suitably fenced with 1,8m high steel mesh fencing covered with shade cloth to the satisfaction of the principal agent. 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.

The tarred roadway between the construction site and the contractors yard is to be protected at all times and is 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. The contractor must also allow for a 5.00m wide temporary roadway from the tarred road to the construction site (see attached drawing at the back of Bill) and is to be made up of suitable layerworks to accommodate any traffic that will be used on it. The contractor must also allow for clearing this area of any vegetable matter, shrubs, small trees, etc. This area to be left clean after construction has been completed.

20 Clause 19.1.2

Item

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

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Brought Forward		R
	<p>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.</p> <p>The contractor shall allow for the proper maintenance and regular cleaning of the all the above facilities during the contract period to ensure clean usable facilities at all times and shall clear away and make good on completion.</p> <p>Furthermore, it is a requirement that this compound as with the contractors site establishment facility should be fenced with a 1.8m high gumpole and steel mesh fence covered with shadecloth.</p>	
21	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p>	Item
22	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n / s subcontractor for the execution of the relevant subcontract work</p>	Item
23	Clause 22.0 - Employer's direct contractors	Item
24	Clause 23.0 - Contractor's domestic subcontractors	Item
	<u>Completion</u>	
25	<p>Clause 24.0 - Practical completion</p> <p>The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims of loss of profit shall not be entertained.</p>	Item
26	Clause 25.0 - Works completion	Item
Carried Forward		R
	<p>Section No. 1 Bill No. 1 PRELIMINARIES</p> <p style="text-align: center;">EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>	

Brought Forward		R
27	Clause 26.0 - Final completion	Item
28	Clause 27.0 - Latent defects liability period	Item
29	Clause 28.0 - Sectional completion	Item
30	Clause 29.0 - Revision of date for practical completion	Item
	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 29.3)	
31	Clause 30.0 - Penalty for late or non-completion	Item
	<u>Payment</u>	
32	Clause 31.0 - Interim Payment	Item
	The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable.	
33	Clause 32.0 - Adjustment to the contract value	Item
	Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final payment certificate, it shall be in writing.	
34	Clause 33.0 - Recovery of expense and loss	Item
35	Clause 34.0 - Final account and final payment	Item
36	Clause 35.0 - Payment to other parties	Item
	Carried Forward	R
	Section No. 1 Bill No. 1 PRELIMINARIES	
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Brought Forward		R
<u>Cancellation</u>		
37	Clause 36.0 - Termination by employer - contractor's default	Item
38	Clause 37.0 - Termination by employer - loss and damage	Item
39	Clause 38.0 - Termination by contractor - employer's default	Item
40	Clause 39.0 - Termination - cessation of the works	Item
<u>Dispute</u>		
41	Clause 40.0 - Settlement of disputes	Item
<u>Contract Agreement</u>		
42	Clause 41.0 - Post tender provisions	Item
43	Clause 42.0 - Contractual agreement	Item
<u>SECTION B: PRELIMINARIES</u>		
<u>Definitions and Interpretation</u>		
44	Clause 1.0 - Definitions and interpretation	Item
<u>Documents</u>		
45	Clause 2.1 - Checking of documents	Item
46	Clause 2.2 - Provisional bills of quantities	Item
47	Clause 2.3 - Availability of construction information	Item
<u>Previous work and adjoining properties</u>		
48	Clause 3.1 - Previous work - dimensional accuracy	Item
49	Clause 3.2 - Previous work - defects	Item
50	Clause 3.3 - Inspection of adjoining properties	Item
Carried Forward		R
Section No. 1 Bill No. 1 PRELIMINARIES		
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Brought Forward		R
<u>Samples, shop drawings and manufacturer's instructions</u>		
51	Clause 4.1 - Samples of materials	Item
52	Clause 4.2 - Workmanship samples	Item
53	Clause 4.3 - Shop drawings	Item
54	Clause 4.4 - Compliance with manufacturer's instructions	Item
<u>Deposits and fees</u>		
55	Clause 5.1 - Deposits and fees	Item
<u>Temporary services</u>		
56	Clause 6.1 - Water	Item
57	Clause 6.2 - Electricity	Item
58	Clause 6.3 - Telecommunication facilities	Item
59	Clause 6.4 - Ablution facilities	Item
<u>Prime cost amounts</u>		
60	Clause 7.1 - Responsibility for prime cost amounts	Item
<u>Special attendance on n/s subcontractors</u>		
61	Clause 8.1 - Special attendance	Item
<u>General</u>		
62	Clause 9.1 - Protection of the works	Item
63	Clause 9.2 - Protection/isolation of existing/sectionally occupied works	Item
64	Clause 9.3 - Security of the works	Item
65	Clause 9.4 - Notice before covering work	Item
66	Clause 9.5 - Disturbance	Item
Carried Forward		R
Section No. 1 Bill No. 1 PRELIMINARIES		
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Brought Forward		R
67	Clause 9.6 - Environmental disturbance	Item
68	Clause 9.7 - Works cleaning and clearing	Item
69	Clause 9.8 - Vermin	Item
70	Clause 9.9 - Overhand work	Item
<u>Schedule of Variables</u>		
<p>Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is irrelevant for this specific contract.</p> <p>10.1 - Provisional Bills of Quantities [clause 2.2]</p> <p>The quantities are provisional - Yes</p> <p>10.2 - Availability of construction documentation [clause 2.3]</p> <p>Construction documentation is complete - No</p> <p>10.3 - Previous work - dimensional accuracy [clause 3.1] - No</p> <p>10.4 - Previous work - defects [clause 3.2] - No</p> <p>10.5 - Inspection of adjoining properties [clause 3.3] - Yes</p> <p>10.6 - Water [clause 7.2]</p> <p>Option A (by contractor) - No</p> <p>Option B (by employer - free of charge) - No</p> <p>Option C (by employer - metered) - Yes</p>		
71	10.7 - Electricity [clause 7.3]	Item
	Option A (by contractor) - No	
Carried Forward		R
<p>Section No. 1 Bill No. 1 PRELIMINARIES</p> <p style="text-align: center;">EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>		

Brought Forward		R
	Option B (by employer - free of charge) - No	
	Option C (by employer - metered) - Yes	
72	10.8 - Telecommunications (clause 7.4)	Item
	Telephone - Yes	
	Facsimile - Yes	
	E-Mail - Yes	
73	10.9 - Ablution facilities [clause 7.5]	Item
	Option A (by contractor) - Yes	
	Option B (by employer) - No	
	10.10 - Protection of the works [clause 9.1]	
	10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]	
	Protection/isolation is required - Yes	
	10.13 - Environmental disturbance [clause 9.6] - Yes	
<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
<u>Specific Preliminaries :</u>		
	Site instructions	
74	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
	Overtime	
75	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item
Carried Forward		R
	Section No. 1 Bill No. 1 PRELIMINARIES	
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Brought Forward

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Dayworks

76 Where in the opinion of the quantity surveyor any extra work cannot properly be measured or valued, the contractor will be allowed daywork prices therefor calculated upon the costs defined hereunder together with the stated percentages. The total thus arrived at shall be the total amount recoverable by the contractor for performing such work.

Item

1. The cost to the contractor or sub-contractor of materials, being the net cost (at current market prices) actually paid for such materials after the deduction of cash discounts or if materials are supplied from the contractor's or sub-contractor's stock then the cost of such materials shall be based upon the current market price plus the cost of delivery to site; to which net cost 10 per cent thereof shall be added.

2. The cost of labour to the contractor or sub-contractor, being all items of direct cost of labour actually remunerated to the workmen concerned which shall include the cost of all allowances in terms of the Industrial Conciliation Act (where applicable) or any other wage determination applying in the area or any other charge or expense which is normally binding as well as all statutory levies to education and training funds as may be applicable relating to the class of labour concerned at the time when and in the area where the daywork is executed: to which labour costs 75 per cent in respect of shopfitting, wall and floor tiling, mosaic work and electrical work, 60 per cent in respect of plumbing, plastering, joinery and stone masonry and 40 per cent in respect of painting and decorating, general builders work and any other trade not specified herein, shall be added.

Hourly based rates for labour shall be the current market rates for labour based upon standard working hours and shall be applied in respect of the time spent by workers directly engaged on the particular dayworks including any operators operating mechanical plant and transport and erecting and dismantling other plant. If a claim is made that individual workmen have been paid wages and allowances in excess of the minimum legalised rates, then proof must be furnished that such workmen had been so paid prior to the commencement of the extra work referred to.

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Time lost due to inclement weather shall be excluded from the time charged.

3. Other direct costs, being any related direct costs such as mechanical plant and transport, other than costs of material and labour shall be the net cost thereof to which net cost 10 per cent thereof shall be added.

4. The rates for mechanical plant shall be commercial hire rates current at the time of executing the daywork and shall include fuel and insurance costs.

Supporting vouchers reflecting the time spent and materials used each week shall be delivered for verification to the Quantity Surveyor not later than twenty one days after the end of the week concerned. Should the contractor fail to submit the vouchers within this time, the Quantity Surveyor shall determine a fair price for the work.

Warranties for materials and workmanship

Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specific 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 entity supplying the materials and/or doing the work, upon written notice to do so.

The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor.

Co-operation of the contractor for cost management

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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.

Overloading

The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense.

Propping of floors below

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

Testing of windows for watertightness

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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.

Testing of flat roof waterproofing for watertightness

Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept 'ponded' for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing.

Ingress of water

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.

Proprietary branded products

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

As built drawings

The position of construction breaks and the extend of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Removal and Making Good of Temporary Works, etc, on Completion

The Contractor shall remove all (except where specifically stated otherwise) temporary Works, roads, services and the like used for this Contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.

Making Good

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R

All materials and workmanship in building up, making good, etc., are to match existing and where new materials abutt existing, they are to be neatly jointed to same.

Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.

Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Principal Agent's satisfaction.

Shop Drawings

The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work.

The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure:

A) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.

B) Shop drawings shall be submitted to the Principal Agent for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.

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C) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications.

Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instructions shall not constitute grounds for any claims for delay, extension of time and the like.

D) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agents stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agents approval.

E) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.

F) The Principal Agents approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.

G) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Principal Agent constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive.

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H) One copy of the final approved set of 'Shop Drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.

Scaffolding

In accordance with the 6th Edition of the Standard System of Measurement, no special scaffolding has been measured. The Tenderer is advised to visit the site and to study the drawings to assess any special requirements he may deem necessary for the Works. The Tenderer is to price against this item in respect of any special scaffolding and temporary propping requirements for the Works.

Media releases

All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer

The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media

SMME'S

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 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.

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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.

SUMMARY OF CATEGORIES

77 Category : Fixed R.....

Item

78 Category : Value R.....

Item

79 Category : Time R.....

Item

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 2 : BUILDING WORKS</u>			
<u>BILL NO.1 : EARTHWORKS</u>			
<u>PREAMBLES</u>			
<u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as 'earth'. All very hard unweathered shale, ironstone, etc., the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as 'hard rock'			
<u>Excavation for working space in rock</u>			
Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be			
Carting away of excavated material			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
Filling			
Carried Forward			R
Section No. 2 Bill No. 1 EARTHWORKS			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p>			
<p>Testing</p>			
<p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</p>			
<u>EXCAVATION ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Reduced levels under floors	m3	32.61
2	Trenches	m3	150.57
3	Sump	m3	8.00
<p>Excavation in earth exceeding 2m and not exceeding 4m deep</p>			
4	Trenches	m3	1 449.20
5	Sump	m3	4.00
<p>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density</p>			
6	Not exceeding 500mm deep for placing and removing formwork to walls etc., 1000mm away from excavated face	m2	501.90
7	Exceeding 1m and not exceeding 2m deep for placing and removing formwork to walls etc., 1000mm away from excavated face	m2	2 898.40
<p>Extra over excavation in earth for working space for excavation in</p>			
8	Soft rock	m2	381.64
9	Hard rock	m2	50.19
Carried Forward			R
<p>Section No. 2 Bill No. 1 EARTHWORKS</p>			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<u>Extra over trench and hole excavations in earth for excavation in</u>			
10	Soft rock	m3	30.00
11	Hard rock	m3	173.90
<u>Extra over all excavations for carting away</u>			
12	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	80.31
<u>Risk of collapse of excavations</u>			
13	Sides of trench and hole excavations not exceeding 1,5m deep	m2	597.90
14	Sides of trench and hole excavations exceeding 1,5m deep	m2	2 898.40
15	Keeping excavations free of water	Item	
16	Keeping excavations free of all water other than subterranean water	Item	
<u>FILLING ETC OTHER THAN BULK</u>			
<u>RIP and recompact insitu , compacted to 93% Mod AASHTO density</u>			
17	Backfilling to trenches, holes, etc.	m3	102.39
<u>RIP and recompact insitu , compacted to 93% Mod AASHTO density at 150 mm layer</u>			
18	Under floors, steps, pavings, etc.	m3	175.50
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
19	Under floors, steps, pavings, etc.	m3	32.61
20	Backfilling to trenches, holes, etc.	m3	109.11
Carried Forward			R
Section No. 2 Bill No. 1 EARTHWORKS			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<u>Earth filling using imported G7 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>			
21	Backfilling to trenches, holes, etc.	m3	289.84
<u>Earth filling using imported C4 material in backfilling to trenches ,etc and compacted in layers not exceeding 200mm thick to 95% Mod AASHTO density</u>			
22	Backfilling to trenches, holes, etc.	m3	380.73
<u>Earth filling using imported G5 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u>			
23	Under floors, steps, pavings, etc.	m3	19.43
<u>Earth filling using imported G5 material in backfilling to trenches,etc and compacted in layers not exceeding 150mm thick to 98% Mod AASHTO density</u>			
24	Under floors, steps, pavings, etc.	m3	302.07
<u>Coarse river sand filling supplied by the contractor</u>			
25	Under floors etc.	m3	12.23
<u>Compaction of surfaces</u>			
26	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	81.52
<u>Prescribed density tests on filling</u>			
27	Modified AASHTO Density test	No	20.00
<u>SOIL POISONING</u>			
Carried Forward			R
Section No. 2 Bill No. 1 EARTHWORKS			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward

R

Soil insecticide in accordance with SANS 5859

28 Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming

m2 2 121.52

29 To bottoms and sides of holes, trenches etc.

m2 3 544.30

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 1
EARTHWORKS

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	Quantity	Rate	Amount
<p><u>BILL NO.2 : CONCRETE, FORMWORK AND REINFORCEMENT</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Cost of tests</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<p><u>Lightweight concrete</u></p>			
<p>Lightweight concrete shall have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc. shall be 50mm</p>			
<p><u>Formwork</u></p>			
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself

Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described

Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks

DEMOLITIONS, ETC

Breaking up and removing unreinforced concrete:

1	300mm Thick existing surface beds	m3	291
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Breaking down and removing brickwork, etc:

2	Brick piers	m3	12
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Carefully taking up and storing for later reuse (elsewhere measured):

3	80mm Thick brick paving with sand-cement mortar joints	m2	82
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NON-SHRINK GROUT

40 mm Non-shrink grout

4	Under base plates including forming chamfered edges on all four sides	m2	11
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UNREINFORCED CONCRETE CAST ON/IN FORMWORK

Carried Forward

R

Section No. 2
 Bill No. 2
 CONCRETE, FORMWORK AND REINFORCEMENT

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward			R
<u>15MPa/19mm concrete</u>			
5	Surface blinding under surface beds	m3	259.73
6	Surface blinding under footings and bases	m3	20.09
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/19mm concrete</u>			
7	Surface blinding under surface beds	m3	82.50
8	Surface blinding under footings and bases	m3	5.04
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
<u>30MPa/19mm concrete</u>			
9	Strip footings	m3	25.10
10	Stub columns	m3	7.32
11	Slabs and beams	m3	9.23
12	Retaining walls in foundations (Provisional)	m3	38.40
<u>Reinforced Cement Concrete 35MPa with washed sand and Fibrin Fibre @ 900G/m3 or similar for approval by engineer, with Qualidur surface hardener:</u>			
13	Surface beds cast in panels on waterproofing	m3	408.00
<u>Reinforced Cement Concrete 30MPa With Xypex Waterproofing Additive In:</u>			
14	Bottoms of sumps	m3	1.50
15	Sides of sump	m3	4.00
<u>35MPa/19mm concrete</u>			
16	Bases	m3	47.62
Carried Forward			R
Section No. 2			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<u>35MPa/19mm concrete with and including washed sand and Fibrin fibre at 900g/m3</u>			
17	Surface beds cast in panels to falls on waterproofing.	m3	12.23
<u>TEST CUBES</u>			
<u>Test cubes</u>			
18	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	35.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a mechanical power pan to FM3 finish</u>			
19	Surface beds, slabs, etc.	m2	2 154.00
<u>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</u>			
20	4mm Thick average to surface beds, slabs, etc.	m2	1 650.00
<u>Finishing top surfaces of concrete smooth with a power float</u>			
21	Surface beds, slabs, etc.	m2	81.52
<u>Protection of power floated floors:</u>			
22	Allow for protecting top of power floated concrete slab against any damage that may occur during any construction work above ie structural steelwork, roof sheeting, etc including repairing any damage that may have occurred	m2	471.52
<u>Two coats bituminous paint</u>			
23	Backs of concrete sump walls	m2	81.52
Carried Forward			R
Section No. 2			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<u>Scabble and clean and apply 15mm thick Sika Swell S-2 swellable sealant all in strict accordance with the manufacturers instructions</u>			
24	Top surface of 350mm wide concrete sump wall	m	6.00
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>			
<u>Rough formwork to sides</u>			
25	Bases (Provisional)	m2	86.92
26	Rectangular stub columns in foundations (Provisional)	m2	52.08
27	Rectangular columns in foundations (Provisional)	m2	46.00
28	Edges exceeding 300mm high	m2	16.66
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>			
<u>Smooth formwork to soffits</u>			
29	Sides and soffits of beams	m2	1.76
30	Ditto, but with total height exceeding 3.5m and not exceeding 5m above bearing level	m2	3.24
31	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	20.80
<u>MOVEMENT JOINTS ETC</u>			
<u>2 Layers of 3 ply malthoid slip joints between horizontal concrete and brick surfaces including cement mortar bed:</u>			
<u>20mm Isolation joints including cell expanded polyethylene foam joint filler between horizontal concrete and brick surfaces including cement mortar bed:</u>			
32	As per engineers detail TB	m	218.20
Carried Forward			R
Section No. 2			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward				R
	<u>180mm High Phermaban Alpha joint classic 4010 or similar approved galvanised armoured joint with dowel plated @600 mm c/c</u>			
33	As per engineers detail AJ	m	114.00	
	<u>Armoured joint comprising of 10 x 65mm galvanised flat bar with top edge machined flat and 8mm lugs 150mm long at 300 c/c including 6mm gap created with temporary 6mm softboard to be removed and sealed with 15 x 6mm ABE DOW CORNING 890 SL to manufacturers specifications on 10mm backing board</u>			
34	As per engineers detail AJ	m	30.00	
	<u>Expansion joints with 10mm Impregnated softboard between horizontal concrete and brick surfaces:</u>			
35	10mm Joints not exceeding 300mm high (Provisional)	m	20.80	
	<u>Saw-cut joints</u>			
36	3 x 75 mm Deep saw-cut joints in top of concrete	m	522.40	
	<u>REINFORCEMENT (CPAP WORK GROUP NO. 114)</u>			
	<u>High tensile steel reinforcement to structural concrete work</u>			
37	10mm Diameter bars	t	10.400	
	<u>Fabric reinforcement</u>			
38	Mesh Ref 395 fabric reinforcement in concrete slabs etc.	m2	4 243.04	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Item No	Quantity	Rate	Amount
<p><u>BILL NO.3 : MASONRY</u></p> <p><u>PREAMBLES</u></p> <p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</u></p> <p>Masonry:</p> <p>Bricks are to be solid modular masonry units having a compressive strength of 14MPa.</p> <p>Sizes in descriptions:</p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.</p> <p>Cement Mortar</p> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar.</p> <p>Hollow walls etc:</p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole and galvanised butterfly wire ties at 5 per square metre.</p>			
<p>Carried Forward</p>		<p>R</p>	
<p>Section No. 2 Bill No. 3 MASONRY</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

Descriptions of hollow walls to receive concrete filled cavities shall be deemed to include building up brickwork in increments not exceeding 1m high or as otherwise instructed by Engineer, filling cavity with concrete infill, before raising brickwork further.

Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats 'Brixal' bitumen emulsion waterproofing coating.

Face bricks:

Bricks shall be ordered timeously to obtain uniformity in size and colour.

Pointing:

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.

Cleaning:

To prevent staining of face brickwork, provide cover during building or renovating operations. Refer to Clay Brick Association Clay Masonry Technical Guide, Part 6.

Samples:

Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.

Rates for brickwork, faced brickwork, etc shall include for all required samples.

Sample panels:

- 1 A sample panel (size approximately 1000 x 1000mm high) will be required to be provided on site for co-ordination and quality of work. The Contractor is to allow for removal on completion is so required.

Item

Carried Forward

R

Section No. 2
 Bill No. 3
 MASONRY

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward			R
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>(PROVISIONAL)</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
2	Half brick walls	m2	12.24
3	One brick walls	m2	268.68
4	360mm Hollow walls of one half brick and one 140mm brick skins including butterfly ties and cavities filled with 15Mpa concrete (filling elsewhere measured)	m2	16.44
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
5	Half brick walls	m2	24.00
6	One brick walls	m2	34.40
7	280mm Hollow walls of half brick skins including butterfly ties and cavities filled with 30Mpa concrete (filling elsewhere measured)	m2	478.00
<u>BRICKWORK SUNDRIES</u>			
<u>Sundries</u>			
8	40mm PVC weephole sleeve pipe not exceeding 250mm long, built into brickwalls	No	8.00
9	Bag outer face of inner skin of brickwork and apply two coats bituminous paint	m2	241.92
10	Cement mortar triangular fillet one course high in bottom of 110mm wide cavity wall including leaving open perpend at 1,00m centres	m	6.00
11	Labour and material building 110mm cavity solid vertically for half brick width	m	6.00
Carried Forward			R
Section No. 2			
Bill No. 3			
MASONRY			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<u>Brickwork reinforcement</u>			
12	80mm Brick mesh reinforcement in walls	m	7 060.00
13	Ditto, but 155mm	m	563.20
<u>Miscellaneous</u>			
14	Labour and material building 110mm cavity solid horizontally for two courses	m	414.40
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
15	75 x 100mm Lintels in lengths not exceeding 3m	m	25.33
<u>Galvanised hoop iron cramps, ties, etc.</u>			
16	38 x 2mm Cramp 500mm long with one end fixed to timber and other end built into brickwork	No	48.00
17	30 x 1,6mm Wall tie 500mm long with one end built into brickwork and other end shot fixed to steel column	No	48.00
<u>Bagging of 1:3 cement and sand mixture</u>			
18	On brick walls	m2	406
<u>Joint forming material in movement joints</u>			
19	12mm Fibre board built in vertically through brick walls	m2	7
<u>FACE BRICKWORK</u>			
20	Face bricks (Allow the PC Amount R 10 000.00 nett per thousand supplied and delivered to site excluding Vat, waste and profit) pointed with recessed horizontal and vertical joints - Contractor is to allow for all labour, materials, plant, tools, waste, mark-ups, etc for building in face bricks. (The rate will be adjusted for material costs only when the Client selects the Face Brick.):	Item	
21	Extra over brickwork for face brickwork in foundations (Provisional)	m2	201.60
22	Extra over brickwork for face brickwork	m2	406.00
Carried Forward			R
Section No. 2 Bill No. 3 MASONRY			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward

R

23	Extra over brickwork for brick-on-edge header course lintels one course high, pointed on face and 330mm soffit	m	8.34
24	220mm Wide sills set sloping and slightly projecting	m	6.00

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 3
MASONRY

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	Quantity	Rate	Amount
<p><u>BILL NO.4 : WATERPROOFING</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</u></p>			
<p><u>Waterproofing:</u></p>			
<p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>			
<p>Waterproofing is to be laid in strict accordance with the manufacturers Code of Practice and by an Approved Contractor.</p>			
<p><u>Preparation of substrata:</u></p>			
<p>Screeded roof surfaces shall be firm, dry and clean. Corners shall be coved or arris rounded. All surfaces to receive waterproofing are to be fully primed with a solvent based bitumen primer.</p>			
<p>Timber boarded roof surfaces shall be dry, clean and even. All internal angles are to receive a timber triangular fillet. Corners and edges shall be arris rounded.</p>			
<p>Carried Forward</p>		<p>R</p>	
<p>Section No. 2 Bill No. 4 WATERPROOFING</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

DAMPPROOFING OF WALLS AND FLOORS

One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)

1 In walls m2 126.92

One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape

2 Under surface beds m2 2 121.52

Two coats bitumen emulsion waterproof coating

3 On bagged brick walls m2 406.00

WATERPROOFING TO ROOFS, FLOORS BASEMENTS, ETC

One layer Derbigum CG4 waterproofing membrane sealed by means of 'torchfusion' with 100mm side laps and 150mm end laps to retaining walls to receive drainage layer

4 On bottoms and sides of sump m2 3.00

Megaflow MEG 315 or equally approved Geocomposite Panel Drain System

5 170 x 40mm Drain system laid flat between backfilled layers under surface beds m 20.00

A10 Bidim or equally approved nonwoven needle punched continuous filament polyester Geotextile fabric:

6 Laid flat between backfilled layers under surface beds m2 20.00

WATERSTOPS

Sika AR-20 or equally approved surface water bar

7 150 x 3.5mm Thick with appropriate fixing clips with 15.00m waterhead resistance fixed at junction of sump bottom with sump wall (to be installed by a certified contractor) m 2.40

Carried Forward

R

Section No. 2
Bill No. 4
WATERPROOFING

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

SEALING STRIPS, JOINT SEALANTS, ETC

Polyurethane sealing compound including backing cord, bond breaker, primer, etc.

8	20 x 12mm In expansion joints in floors, aprons, etc, including raking out expansion joint filler as necessary	m	157.00
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Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 4
WATERPROOFING

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	Quantity	Rate	Amount
<p><u>BILL NO.5 : ROOF COVERINGS</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</u></p>			
<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p>			
<p><u>Notes:</u></p>			
<p><u>The following roof sheeting systems are to be manufactured and/or supplied s and installed in strict accordance with the Manufacturer's and/or Supplier's specifications.</u></p>			
<p>Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved Instruction Book.</p>			
<p>The manufacturer shall comply with ISO9002 Quality Management System. Sheeting shall be laid in strict accordance with the manufacturer's specifications by an approved contractor.</p>			
<p>A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection of concealed-fix roofing, cladding, etc., by the Manufacturer.</p>			
<p>Carried Forward</p>		<p>R</p>	
<p>Section No. 2 Bill No. 5 ROOF COVERINGS</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

Erection, handling and storage:

Every precaution shall be taken to prevent damage to roof sheets, cladding, etc., during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

Sheetings should be suitably supported, clear of the ground, under well ventilated cover, away from risk of damage from building operations, contact with cement, dust, lime and abrasive dust, until required to be installed.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Cleaning, etc:

All debris, swarf, etc. arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters.

Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc.

ZIP-TEK 420 SHEETING

Carried Forward

R

Section No. 2
Bill No. 5
ROOF COVERINGS

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

Profile:

The profile is roll-formed from certified material complying Aluminium 3004. The profile shall have a male and female upstand with an upstanced height of 68mm, which will provide a capillary brake. The nett effective cover width will be 424mm. The male head shall be smaller than the female head.

Flashing:

Stop endings must be formed at the apex and the pan turned down at the eaves to form a drip. The roof sheeting shall be closed as necessary with purpose-made flashings of a design approved by the supplier. These flashings shall be notched around ribs where necessary. All these operations must be performed with special tools available from the supplier.

0,9mm Thick ' Hulamin 3004 Aluminium ZIP-TEK 420' Aluminium sheeting and accessories in single lengths with Stucco embossed PVDF finish (Colour Strom Grey) on external face and standard backing coat on internal face and accessories concealed fixed to steel purlins or rails, with 'Zip-Tek' Aluminium Halters fixed with stainless steel self-tapping screws in strict accordance with the Manufacturers instructions:

1	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps	m2	2 059.93
2	Gable flashing 462mm girth	m	60.00
3	Apex flashings 720mm girth	m	56.00
4	Gutter flashing 462mm girth	m	112.00
5	Headwall flashing 500mm girth	m	56.00
6	Narrow flute serrated closer including polybutton	m	115.00
7	Broad flute serrated closer including polybutton	m	115.00

Carried Forward

R

Section No. 2
 Bill No. 5
 ROOF COVERINGS

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

0,8mm Thick 'Hulamin Aluminium BR7' Aluminium Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Hazy Grey) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halters Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturer's Instructions:

Note Side cladding fixed with broad flute facing out.

8	Side cladding including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximatley 1600mm centres	m2	956.62
9	Closure piece 110mm girth	m	120.00
10	Ditto, but 450mm girth	m	40.00
11	Drip flashing 231mm girth	m	35.00
12	Corner flashing 300mm girth	m	12.00
13	Corner/jamb flashing 462mm girth	m	25.00
14	Cap flashing 770mm girth	m	60.00
15	Narrow flute serrated closer including polybutton	m	45.00
16	Broad flute serrated closer including polybutton	m	24.00

0,8mm Thick 'Hulamin Aluminium BR7' Aluminium Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Strom Grey)On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halters Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturer's Instructions:

Carried Forward

R

Section No. 2
Bill No. 5
ROOF COVERINGS

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward			R
<u>Note Side cladding fixed with broad flute facing out</u>			
17	Side cladding fixed diagonally on elevation including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximately 1600mm centres	m2	170.38
18	Closure piece 110mm girth	m	120.00
19	Ditto, but 450mm girth	m	34.00
20	Drip flashing 231mm girth	m	26.00
21	Corner flashing 300mm girth	m	8.00
22	Corner/jamb flashing 462mm girth	m	22.00
23	Cap flashing 770mm girth	m	18.00
24	Corner trim 575mm girth	m	8.00
25	U-flashing 355mm girth	m	16.00
Sundries:			
26	3mm Aluminium top hat	m	116.00
27	3mm Aluminium unequal leg 240mm girth	m	116.00
28	Cut and fit side cladding around steel I-beam	No	24.00
29	38 x 38 x 3mm Aluminium angle	m	15.60
30	76 x 76 x 3mm Aluminium angle	m	39.00
<u>MODEK HEAT STOP GREY POLYCARBONATE SHEETING</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			
31	Side cladding including sealing side laps with 8 x 5mm butyl seal	m2	161.00
Carried Forward			R
Section No. 2 Bill No. 5 ROOF COVERINGS			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
32	Labour only fixing vertical mounted fire ventilator in position (supplied by others) size approximately 6.00 x 1.90m high	No	36.00
<p><u>ROOF AND WALL INSULATION (CPAP WORK GROUP NO. 122)</u></p> <p><u>Isover Factorylite' or equally approved 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</u></p>			
33	50mm Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with including PVC coated steel straining wires and double-sided tape at edges where required all in strict accordance with the manufacturers instructions	m2	1 745.70
Carried Forward to Summary of Section No. 2			R
<p>Section No. 2 Bill No. 5 ROOF COVERINGS</p> <p style="text-align: center;">EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Item No	Quantity	Rate	Amount
<p><u>BILL NO.6 : CARPENTRY AND JOINERY</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Fixing</u></p>			
<p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc.</p>			
<p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p>Decorative thermosetting plastic laminate covering</p>			
<p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p>			
<p>All glazing to doors or frames is elsewhere measured.</p>			
<p>All factory doors are to be pre-treated with a linseed oil based transit stabilizing sealer.</p>			
<p><u>DOORS</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 Bill No. 6 CARPENTRY AND JOINERY</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

Swartland Blue:

1	Door size 982 x 2032mm High commercial veneer horizontal grooved internal semi solid door code DSHRZMS2 or equivalent approved	No	5.00
2	Door size 982 x 2032mm High commercial veneer vertical grooved full hardwood external door Code SD2/OB/BR or equivalent approved	No	3.00

FRAMED FRAMES ETC

Swartland Blue:

3	86 x 51mm Rebated hardwood door frame (Code 813NS) with single rebate, moulded, grooved and weather grooved fixed to brickwork	m	40.95
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BEADS, ARCHITRAVES, ETC

Wrought meranti

4	38 x 50mm Rebated, splayed and grooved weather boards fixed in and including grooves in doors	m	3.00
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Carried Forward to Summary of Section No. 2

R

Section No. 2
 Bill No. 6
 CARPENTRY AND JOINERY

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	<u>BILL NO.</u>	Quantity	Rate	Amount
	<u>IRONMONGERY</u>			
	<u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Finishes to ironmongery			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS - Satin bronze lacquered CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodised silver AB - Anodised bronze AG - Anodised gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded			
	<u>NOTE:</u> Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include fixing in position, including all fixing accessories.			
	Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Hinges, bolts, etc:</u>			
1	75 x 102mm SS Ball bearing butt hinge fixed to frame including screws.	No	5	
2	2100 mm Standard continuous geared hinge (Code DCH -AL-S21)	No	3	
	Carried Forward			R
	Section No. 2 Bill No. 7 IRONMONGERY			
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<u>LOCKSETS, ETC</u>			
<u>"DORMAKABA " or other equal approved</u>			
3	Three point locking panic bar for single door , door leaf size 1000 x 2277mm high (Code PHA3 S SD)	No	3
4	Bathroom deadlock privacy sash mortice dead lock (code DMWC-SS-008)	No	5
5	WC indicator (Red and white) and turn knob (code DWWC-005)	No	5
6	Exterior excess lock with lever handle (Code PHT3901)	No	3
7	5 Pin Grand master keyed 42,5mm Half Cylinder CISA (Code oG304-09-12)	No	3
<u>HANDLES</u>			
<u>"DORMAKABA " or other equal approved</u>			
8	200 x 22mm Straight tubular Pull handle (Code DPH209 BT)	No	5
9	149 x 19mm Straight Tubular Pull Handle (Code DPH301C)	No	3
<u>DOOR CLOSERS, ETC</u>			
<u>"DORMAKABA" or other equally approved</u>			
10	EN 2-4 Regular arm delayed action door closer with standard arm (code TS73V DC-SL)	No	2
11	Code TS83 Parallel arm non- hold open door closer, adjustable strength, hydraulic speed control, push side fixing including parallel arm . Door closer tested to EN 1154, approved to AS1905 Part 1 Fire resistant doors and certified manufacturer to ISO 9001	No	3
<u>Sundries</u>			
12	Floor mounted doorstop (Code DDS-SS-017)	No	2
Carried Forward			R
Section No. 2			
Bill No. 7			
IRONMONGERY			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
13	Hat and coat hook with rubber buffer (code DHC-SS-031B)	No	3
14	150 x 150 mm FEMALE sign (Code DSS - 131 F)	No	1
15	150 x 150 mm MALE sign (Code DSS - 130 M)	No	1
16	1,2mm Thick Grade 430 stainless steel kicking plate size 150 mm wide x 300 mm high (DPP-430-BL-SF), including 6 counter sunk holes	No	5
17	1,2mm Thick Grade 430 stainless steel kicking plate size 810 mm wide x 200 mm high (DKP-430-SF 200), including 10 counter sunk holes	No	5
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 7			
IRONMONGERY			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Item No	Quantity	Rate	Amount
<p><u>BILL N0.8 : STRUCTURAL STEELWORK</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Descriptions</u></p>			
<p><u>Descriptions of bolts shall be deemed to include nuts and washers</u></p>			
<p><u>Descriptions of columns and beams shall be deemed to include flat section base, top, bearer and connection plates</u></p>			
<p><u>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</u></p>			
<p><u>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</u></p>			
<p><u>NOTE: 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.</u></p>			
<p><u>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.</u></p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 Bill No. 8 STRUCTURAL STEELWORK</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

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

STRUCTURAL STEELWORK

14m x 6m Roof structure to utility room I beams, Lipped channels etc. fixed to brickwork, as per Engineer's drawing No. S10 Rev C

Pre-Galvanised Members

1	100 x 75 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t	0.390
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Hot Dipped Galvanised Members

2	IPE 180	t	0.570
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Galvanised members to structural frame as per Engineer's drawing No. S07 and S08 Rev C

Carried Forward

R

Section No. 2
 Bill No. 8
 STRUCTURAL STEELWORK

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward			R
Pre-Galvanised Members			
3	114.3 x 3.5 mm Cold formed circular hollow sections (pre-punched)	t 2.950	
4	139.7 x 3.5 mm Cold formed circular hollow sections (pre-punched)	t 0.310	
5	200 x 75 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t 7.500	
Hot Dipped Galvanised Members			
6	50 x 50 x 3mm L- Sections	t 0.140	
7	70 x 70 x 6mm L- Sections	t 1.440	
8	125 x 75 x 8mm L channel	t 0.140	
9	RV 49.21 M-Bars	t 1.700	
10	200 x 75 x 24mm Parallel Flange Channels	t 0.710	
11	300 x 100 x 46mm Parallel Flange Channels	t 2.680	
12	203 x 203 x 46mm Universal Columns	t 3.270	
13	203 x 133 x 25 mm Universal Beam	t 0.990	34285
14	254 x 146 x 31 mm Universal Beam	t 2.070	
15	406 x 140 x 39mm Universal Beam	t 2.100	
16	406 x 140 x 46mm Universal Beam	t 5.900	
17	533 x 210 x 92mm Universal Beam	t 5.470	
<u>Welded lattice roof trusses 30m x 2.26m high extreme, of angle rafters, tie beams, rails, struts, braces, cleats, etc. and flat bearer, gusset and connection plates, bolted to steel, as per Engineer's drawing No. S06 R6</u>			
Carried Forward			R
Section No. 2 Bill No. 8 STRUCTURAL STEELWORK			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
Pre-Galvanised Members			
18	101.6 x 2.5.5 mm Cold formed circular hollow sections (pre-punched)	t	0.530
19	100 x 50 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t	0.070
20	200 x 75 x 20 x 2,5 mm Cold formed lipped channel girts (pre-punched)	t	7.300
21	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	7.700
Hot Dipped Galvanised Members			
22	50 x 50 x 3mm Angle iron bracing	t	0.070
23	70 x 70 x 6mm Angle iron bracing	t	4.060
24	70 x 70 x 8mm Angle iron bracing	t	0.230
25	80 x 80 x 6mm Angle iron bracing	t	1.260
26	90 x 90 x 6mm Angle iron bracing	t	2.430
27	90 x 90 x 8mm Angle iron bracing	t	1.400
28	100 x 100 x 8mm Angle iron bracing	t	0.800
29	100 x 100 x 10mm Angle iron bracing	t	0.470
30	IPE 180	t	2.400
31	TEE 102 x 133 x 15mm.	t	4.000
32	TEE 102 x 203 x 23mm.	t	5.710
33	245 x 146 x 31mm Universal Beam	t	1.870
34	Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc.	t	5.000
Carried Forward			R
Section No. 2 Bill No. 8 STRUCTURAL STEELWORK			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward

R

Hot Dipped Galvanised Holding Down Bolts, Etc

35 M20 x 450mm Long holding down bolt (grade 8.8 threaded bar) into concrete with 70 x 70 x 14 anchor plates complete with two nuts and two washers No 248.00

36 Drill or core 28mm hole in exact position into top of reinforced concrete slab for a depth of 450mm, remove all dust and water from hole by blowing out with high pressure air hose, and grout M24 holding down bolt into place using Hilti RE-100 Epoxy in strict accordance with product specifications No 248.00

Hot Dipped Galvanised Walkways, Etc

37 4,5mm Vastrap walkway plate 1000mm wide m 30.00

38 Plates, angles, cleats, brackets, connections, bolts (grade 8.8), washers, etc. t 1.000

Corrosion Protection

Prepare Surface To Comply With Paint Manufacturers Specifications And Apply One Coat Primer And Two Liberal Coats Flintkote 3 Bituminous Coating In Strict Accordance With The Manufacturers Instructions, On:

39 Galvanised steel columns that are buried in the ground m2 50.96

Carried Forward to Summary of Section No. 2

R

Section No. 2
 Bill No. 8
 STRUCTURAL STEELWORK

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	Quantity	Rate	Amount
<u>BILL NO. 9 : METALWORK</u>			
<u>PREAMBLES</u>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p>			
<u>Descriptions:</u>			
<p>Descriptions of bolts shall be deemed to include nuts and washers.</p>			
<p>Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.</p>			
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p>			
<u>ALUMINIUM SHOPFRONTS, WINDOWS, DOORS, LOUVRES, ETC, AND ASSOCIATED WORKS</u>			
<p><u>NOTE:</u> Unless otherwise stated herein, all items in this section shall be deemed to fall into Work Group No 149 for Haylett formula purposes</p>			
Carried Forward		R	
Section No. 2 Bill No. 9 METALWORK			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward

R

Drawings

Design, fabricate, supply and install aluminium windows, doors, shopfronts, louvres and frames including ironmongery, glazing, glazing beads, fixings, sealants, etc complete all in accordance with architects drawings and AAAMSA requirements

The following architects drawings are issued with this tender document:

<u>Drawing no.</u>	<u>Revision</u>
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ARCT-WMO- CERES -300	RB
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Minimum requirements

All windows to AAAMSA standards

Tenderers are to ensure that design meets the relevant performance criteria terrain category SABS 0160

All glazing to comply with NBR 0400 part N, SANS and SABS codes and/or as indicated on architects drawing

All aluminium to be epoxy powder coated

Brush pile to all bottom horizontal opening sections of doors and shopfronts

All casement windows to have rubber gasket around frame

Windows are to be sealed internally and externally with an approved sealer

Protection

Allow for the protection of all aluminium windows and doors (both sides) with a protective film including the removal thereof upon completion

Design Indemnity

The aluminium sub contractor shall be responsible for the design of the aluminium doors and windows

Carried Forward

R

Section No. 2
 Bill No. 9
 METALWORK

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

Preparation, submission and approval of shop drawings

Shop drawings to be prepared by the sub contractor and to be submitted to the architect for his approval

Testing for water tightness

All windows to be tested to AAAMSA minimum requirement for water tightness with a method as recommended by AAAMSA

Waterproofing angles

All rates to included for aluminium angles at thresholds to all doors onto patios, decks, balconies, etc for dressing over of waterproofing (waterproofing elsewhere measured)

Powder coated aluminium windows, doors and shopfronts (Powder coating colour: tenderer to allow for "Aloe Green code: RAL - 6011" / white) in strict accordance to AAAMSA requirements and to meet the relevant performance criteria terrain category SANS 10160 and to withstand wind loads as per SABS 0160/1989 (5.5) with glazing to be as indicated on architects drawings and schedules and to comply to the NBR part N glazing, SABS 0137, SABS 0400 and SABS 11236 complete, plugged to brickwork or concrete

1	Window size 600 x 600mm high complete as per Architect's drawing No. 401	No	4
2	Window size 900 x 1200mm high complete as per Architects drawing No. 402	No	2

SUNDRY GALVANISED STEELWORK**Corner protectors**

3	90 x 65 x 6mm Angle iron corner protector with M12 x 120mm lugs welded on at 450mm centres and cast into top edge of concrete sump including welded angles, etc	m	32.00
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Carried Forward

R

Section No. 2
Bill No. 9
METALWORK

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

ROLLER SHUTTER DOORS

4	"EXPANDA" galvanized steel chain operated roller shutter door with 75mm slats and nylon endlocks, aluminium T-Bar with rubber gasket and 75mm galvanised side rails including wicket gate, for opening size 2440 x 2400mm high, including two pad bolts and "Solid 630" cylinder padlock. Galvanising as per approve manufacturer in accordance win SABS 1461 specification	No	2
5	"XPANDA" galvanized steel chain operated roller shutter door comprising of 0.8 interlocked galvanised slats with nylon end-locks and aluminium T-Bar, including galvanised head plates and dust cover , for opening size 4500 x 4500mm high, including two pad bolts and "Solid 630" cylinder padlock. Galvanising as per approve manufacturer in accordance win SABS 1461 specification	No	2

Carried Forward to Summary of Section No. 2

R

Section No. 2
 Bill No. 9
 METALWORK

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	Quantity	Rate	Amount
<p><u>BILL NO.10 : PLASTERING</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</u></p>			
<p>Preparation of surfaces to receive screeds, plaster, etc.:</p>			
<p>Surfaces shall be dry and clean, free of dust, sand, grit and flaking particles, laitance and loose matter, contaminants such as oil, grease, etc. All free standing water to be removed prior to application. Absorbent surfaces to be thoroughly pre-soaked in fresh water. Oil, grease, animal fats, etc. to be removed with suitable approved product and to be applied in strict accordance with the manufacturer's instructions. All concrete surfaces to receive plaster must first be prepared and receive an approved keying/bonding agent or a thick cement slurry coating prior to plastering.</p>			
<p>All floors should be level and free of all material as per SANS10155 and all existing screeds should be tested for satisfactory levelness using a level light meter.</p>			
<p>As a general rule, a maximum deviation of not more than 3mm over an area of 3m is a good guide and will give a quality level floor, with the deviation not being too close together and too frequent.</p>			
<p>Where the screed does not conform to these requirements then a self levelling screed is to be applied and the rates are to include for the testing of the existing screeds as described above.</p>			
<p>Carried Forward</p>			
<p>Section No. 2 Bill No. 10 PLASTERING</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			
			R

Brought Forward

R

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.

Method

The method to be used shall be either the monolithic method or the bonded method

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Carried Forward

R

Section No. 2
Bill No. 10
PLASTERING

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward			R
<p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p><u>Colour</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p><u>SCREEDS</u></p> <p><u>Cement screeds on concrete</u></p>			
1	30mm Thick on floors and landings	m2	18.00
<p><u>GRANOLITHIC</u></p> <p><u>Untinted granolithic, on concrete</u></p>			
2	30mm Thick on floors and landings	m2	1 727.52
<p><u>INTERNAL PLASTER</u></p> <p><u>Cement plaster on brickwork and/or concrete:</u></p>			
3	On walls	m2	556.40
4	Concrete ceilings	m2	20.80
5	Concrete beams	m2	1.76
Carried Forward			R
<p>Section No. 2 Bill No. 10 PLASTERING</p> <p style="text-align: center;">EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward			R
6	On narrow widths	m2	1.06
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork and/or concrete:</u>			
7	On walls	m2	26.40
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
<u>Dividing strips</u>			
8	3 x 57mm Flat section brass dividing strips between different floor finishes at external doors.(Provisional)	m	23.56
<u>Edge strips</u>			
9	Mentex Plaster Stop galvanised steel edge strips fixed to brickwork or concrete	m	10.00
<u>Corner protectors</u>			
10	Mentex Angle Bead galvanised steel corner protectors fixed to brickwork or concrete	m	6.00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 10			
PLASTERING			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Item No	Quantity	Rate	Amount
<u>BILL NO.11 : TILING</u>			
<u>PREAMBLES</u>			
<u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.			
<u>Fixing</u>			
Unless described as 'fixed with adhesive to plaster (plaster elsewhere)' descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 plaster bedding			
Tiling described as 'fixed with adhesive on power floated concrete' shall be deemed to include for approved tiling key-coat			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the range of products as recommended by the manufacturer of the tiles			
<u>SLATE WALL TILING</u>			
<u>600 X 300mm Slate wall tiles to match existing office facade wall tiles , fixed with TAL tile adhesive on plastered walls (plaster e/m)</u>			
1	On walls	m2	26.40
<u>CERAMIC / PORCELAIN WALL TILING</u>			
Carried Forward			R
Section No. 2 Bill No. 11 TILING			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
<p><u>Allow the PC Amount of R400.00 (Two Hundred and Thirty Rand)(Excluding VAT) for the Supply and Delivery of Ceramic Wall Tiles, fixed with TAL tile adhesive on plastered walls (plaster e/m) with 3mm spacings and grouted with TAL grout (Bathroom Wall Areas) - Contractor is to allow for, waste, profit, labour for fixing tiles and all adhesive and grouting, all to manufacturers specifications. (The rate will be adjusted for material costs only, when the Client selects the wall tile.):</u></p>			
2	On walls	m2	116.00
3	On narrow widths	m2	2.88
<p><u>FLOOR TILING</u></p>			
<p><u>Allow the PC Amount of R400.00 (Three Hundred Rand) (Excluding VAT) for the Supply and Delivery of Ceramic Floor Tiles, fixed with Tal Goldstar Adhesive on screeded concrete floors (screed e/m) and Pointing With Tal Tinted Epoxy Grout with continuous joints in both directions – Contractor is to allow for waste, profit, labour of fixing tiles and all adhesive and grouting, all to manufacturers specifications. (The rate will be adjusted for material costs only, when the Client selects the wall tile.):</u></p>			
4	On floors and landings	m2	18.00
5	Skirting 100mm high of cut skirting tiles	m	30.50
<p><u>SUNDRIES</u></p>			
<p><u>M Trim or equally approved:</u></p>			
6	M Trim stainless steel (grade 304) tile square edge trim as Kirk Marketing SQE120 (used as stair nosing)	m	9.60
7	M Trim stainless steel (grade 304) movement joint with grey insert as Kirk Marketing SMJ120	m	16.80
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 11			
TILING			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Item No	Quantity	Rate	Amount
<p><u>BILL NO.12 : PLUMBING AND DRAINAGE</u></p>			
<p><u>PREAMBLES</u></p>			
<p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</u></p>			
<p><u>Polycop' polypropylene pipes:</u></p>			
<p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with 'Fast-fuse' heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p>			
<p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.</p>			
<p>All pipe diameters are nominal external.</p>			
<p>uPVC pressure pipes and fittings:</p>			
<p>Pipes for water supply shall be of the class stated.</p>			
<p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE</p>			
<p>EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A</p>			

Brought Forward

R

Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type or equally approved. Capillary solder fittings shall comply with ISO 2016 and SABS specifications. Only compression fittings shall be used in walls or in ground.

Fixing :

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories

Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer

Chasing :

Chasing pipes into new walls shall be regarded as "building in" and is not measured seperately. The cost of chasing and making good shall be included in the rates for the pipes.

Carried Forward

R

Section No. 2
 Bill No. 12
 PLUMBING AND DRAINAGE

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Wire gratings:

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.

Exposed concrete surfaces:

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.

Excavations:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.

Laying, backfilling, bedding, etc of pipes:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches). Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200 LB : Bedding (Pipes).

Carried Forward

R

Section No. 2
 Bill No. 12
 PLUMBING AND DRAINAGE

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward

R

Unless otherwise described bedding of rigid pipes shall be class B bedding.

Flush pans:

Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.

Stainless steel basins, sinks, wash troughs, urinals, etc:

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.

Prices for sinks are to include for preparing the worktop to receive the fitting and for securely fixing sinks to worktops using the clips provided. The Contractor is to provide worktop manufacturers with details of cut outs and ensure that the cut openings are sufficiently accurate to provide proper engagement for these clips.

Waste unions:

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

General :

All screw and bolt fixings for sanitary ware are to be stainless steel or chromium plate on brass.

Prices for sanitary fittings are to include in the rate for the application of white anti-fungal silicone sealant between the fittings and abutting wall and floor finishes, vanity tops, bathroom fittings, etc.

RAINWATER DISPOSAL

FULBORE OUTLETS

1	100mm "Fulbore" side outlet including joint to pipe	No	2.00
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SANITARY FITTINGS

Vaal Sanitaryware' vitreous china wash hand basins and pedestals:

Carried Forward

R

Section No. 2
 Bill No. 12
 PLUMBING AND DRAINAGE

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward			R
2	Wash hand basin as "Amber Classic " VAA-7000303WH" or other approved complete with waste union, overflow tube attachment, plug and chain, brackets, etc (taps elsewhere measured)	No	2.00
	Vaal Sanitaryware' vitreous china WC suites:		
3	WC suite comprising pan as "Vaal Afsan VAA-750600WH" and approved double flap seat complete (Flushmaster valve elsewhere measured)	No	3.00
	Vaal Sanitaryware' vitreous china urinals:		
4	"Vaal Lavatera" TI 600 5 x 385 white vitreous china wall mounted back inlet urinal (product code 705426WH) including 38mm chromium plated domical grating (product code 8787Z0) and chromium plated back inlet spreader (product code 7054Z2) and concealed flush valve (elsewhere measured) including flushpipe and fittings, fitted on and including two hanger brackets (product code 8127Z0) plugged and screwed to wall.	No	1.00
	Franke' grade 304 (18/10) 1.2mm stainless steel sinks:		
5	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	1.00
	Accesories		
6	Serra Roll TR Range or similar approved Grade 304 (18/10) stainless steel satin finish lockable 2 roll toilet roll holder complete with approved brackets, etc and fixing in position	No	3.00
7	600mm long CP brass towel rail complete with wall brackets including fixing in position.	No	2.00
	<u>WASTE UNIONS ETC</u>		
	Cobra Watertech' waste unions etc:		
8	32mm Code 301 chrome plated basin waste union.	No	2.00
9	38mm Chrome plated heavy pattern slotted sink/washtrough waste union with flange, shank, slotted with back nut plug, chain and stay.	No	2.00
	Carried Forward		
	R		
	Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE		
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Brought Forward			R
<u>TRAPS ETC</u>			
Traps, etc.:			
10	50mm PVC "P" trap including joint to pipe and outlet of fitting	No	1.00
11	40×40mm Urinal plain mini "P" trap (DPE F40 PMP or equivalent)	No	1.00
12	32 x 40mm Chromium plated bottle trap as Cobra COB-385/35 including joint to pipe and outlet of fitting	No	2.00
13	40mm Brass combination sink "P" trap including joint to pipe and outlet of fitting	No	1.00
<u>TAPS, VALVES, ETC</u>			
Stopcocks, Stoptaps, Gate valves, Check valves, Strainers, etc:			
14	15mm Chromium plated angle regulating valve with 350mm flexi tube as Cobra 832/350 including joints to pipes	No	6.00
15	15mm Brass stopcock including joints to pipes	No	6.00
16	22mm Ditto	No	3.00
17	28mm Ditto	No	3.00
18	35mm Ditto	No	5.00
19	15mm Chromium plated stopcock including joints to pipes	No	3.00
20	15mm Brass hose tap including joint to pipe	No	1.00
21	15mm Chromium plated sink mixer as "Cobra COB-PA-870" or other approved including joints to pipes	No	1.00
22	15mm Chromium plated basin mixer as "Cobra COB-PA-851" or other approved including joints to pipes	No	2.00
23	22mm Brass pressure control valve including joints to pipes	No	1.00
Carried Forward			R
Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward				R
24	22mm Brass relief valve including joints to pipes	No	1.00	
	Toilet and urinal flushvalves and built in cisterns:			
25	Chromium plated flushvalve and spargepipe as Cobra COB-FJ2-100 including joints to pipes	No	3.00	
26	Cobra FJ6-000 CP Urinal valve toilet flush valve complete including 25.4 x 12 x 260 CP urinal pipe	No	1.00	
	Pressure reducing valves, vacuum breakers, etc.:			
27	22mm Brass vacuum breaker including joint to pipe	No	1.00	
<u>SANITARY PLUMBING</u>				
UPVC Pipes And Fittings				
28	40mm pipes	m	15.00	
29	50mm Pipes	m	2.00	
30	110mm Pipes	m	30.00	
31	40mm Pipes chased into walls including making good to plaster	m	24.00	
32	40mm Pipes fixed to underside of concrete slabs including purpose made brackets	m	3.00	
33	50mm Ditto	m	6.00	
34	40mm Pipes in fill under slab including any excavation, backfilling, etc	m	15.00	
35	50mm Ditto	m	40.00	
	Extra For:			
36	50mm Straight reducer	No	6.00	
37	110mm Ditto	No	9.00	
38	110mm Pan connector	No	3.00	
Carried Forward				R
Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE				
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A				

Brought Forward			
39	40mm Bend	No	9.00
40	50mm Bend	No	6.00
41	40mm Inspection eye bend	No	3.00
42	50mm Ditto	No	3.00
43	110mm Ditto	No	1.00
44	50mm Ditto	No	6.00
45	110mm Ditto	No	9.00
46	50mm Inspection eye reducing junction	No	1.00
47	110mm Ditto	No	3.00
48	110mm "GI two-way" vent valve	No	1.00
	Sundries		
49	Wire balloon grating in top of pipe not exceeding 100mm diameter.	No	3.00
50	50mm UPVC vent valve	No	1.00
51	110mm Ditto	No	3.00

TESTING

Testing :

52	Testing waste pipe system, complete.		Item
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WATER SUPPLIES

Note:

Domestic Hot and Cold Water Pipes shall be Copper to SANS 460 Class 2 Hard Drawn. Copper piping and shall be joined by means of solder capillary fittings, in accordance with SABS specifications.

Carried Forward

Section No. 2
 Bill No. 12
 PLUMBING AND DRAINAGE

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Brought Forward				R
The exact position of Hot Water Pipework in ceiling voids shall be such that the length of "Dead Legs" are minimised.				
Class 2 Copper pipes:				
53	15mm Pipes.	m	8.00	
54	22mm Pipes.	m	12.00	
55	28mm Pipes.	m	6.00	
56	35mm Pipes.	m	15.00	
57	42mm Pipes.	m	5.00	
58	63mm Pipes.	m	5.00	
Extra over class 2 copper pipes for capillary fittings:				
59	15mm Fittings	No	12.00	
60	22mm Fittings	No	12.00	
61	28mm Fittings	No	6.00	
62	35mm Reducer	No	1.00	
63	35mm Tee	No	3.00	
Extra over class 2 copper pipes for brass compression fittings:				
64	15mm Fittings	No	6.00	
65	22mm Fittings	No	6.00	
66	28mm Fittings	No	6.00	
67	35mm Elbow	No	2.00	
68	35mm Reducer	No	4.00	
69	42mm Saddle connector	No	1.00	
Carried Forward				R
Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE				
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A				

Brought Forward			R
70	54mm Saddle connector	No	3.00
	Testing		
71	Testing water pipe system		Item
<u>ELECTRIC WATER HEATERS</u>			
Approved' Geysers (SABS 151:1992), to be compatible with heat pump installations, where required :			
72	100 Litre 600KPa high pressure horizontal hot water geyser including fixing to wall and joints to pipes	No	1.00
73	Saint Gobian Isover geyser blanket to suit 100 litre geyser	No	1.00
74	Galvanised sheet iron tray to suit 100 litre geyser	No	1.00
75	50mm UPVC overflow pipe	m	8.00
76	Saint Gobian Isover insulation to 15mm pipe all in strict accordance with the manufacturers instructions	m	8.00
77	22mm Ditto	m	2.00
78	28mm Ditto	m	2.00
<u>BUILDERS WORK IN CONNECTION WITH PLUMBING INSTALLATION</u>			
79	Cut hole through facebrick wall for pipe not exceeding 100mm diameter and make good	No	4.00
80	Prepare surface and apply one undercoat and two coats gloss enamel paint to copper pipes not exceeding 300mm girth	m	20.00
<u>FIRE APPLIANCES ETC</u>			
Chubb' or equally approved:			
81	Everyway' hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket, mounted to wall, complete.	No	3.00
Carried Forward			R
Section No. 2 Bill No. 12 PLUMBING AND DRAINAGE			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward

R

82	4,5kg DCP hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	2.00
83	5kg Carbon dioxide CO2 hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	2.00

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 12
PLUMBING AND DRAINAGE

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Item No	<u>BILL NO.13 : GLAZING</u>	Quantity	Rate	Amount
	<p><u>PREAMBLES</u></p> <p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</u></p> <p><u>Float glass</u></p> <p>The term 'float glass' is used for monolithic annealed glass</p> <p>Laminated glass</p> <p>Laminated glass to have polyvinyl butyral (PVB) interlayer(s)</p> <p><u>GLAZING TO WOOD WITH PINNED-ON BEADS (BEADS ELSEWHERE)</u></p> <p>4mm Clear float glass</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></p> <p>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</p>			
1	Mirror 450 x 900mm high with doe headed screws	No	2.00	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 13 GLAZING			
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Item No	<u>BILL NO.14 : PAINTWORK</u>	Quantity	Rate	Amount
	<p><u>PREAMBLES</u></p> <p><u>The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors and the Supplementary Preambles which are incorporated in these Bills of Quantities</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</u></p> <p><u>Paint:</u></p> <p>All work to be executed in strict accordance with the Manufacturers specifications and instructions.</p> <p>Primers and first coats may be thinned in accordance with the paint specifications of the various paints to aid the absorption of the paint.</p> <p>All surfaces must be sound, clean and have a moisture content of less than 8% for walls generally and 3% for slabs/screeds etc.</p> <p>Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with a Merit' plaster primer thinned 10% with turpentine.</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON FLOATED PLASTER SURFACES</u></p> <p>Prepare surfaces and remove all loose material, apply one coat plaster Primer and Two Coats Super Acrylic PVA Paint On:</p>			
1	Internal plastered ceilings and beams	m2	20.80	
	Carried Forward			R
	Section No. 2 Bill No. 14 PAINTWORK			
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Brought Forward			R
	Prepare surfaces and remove all loose material, apply one coat Plascon Plaster Primer (UC56) filler coat, sand lightly and apply two coats 'Plascon Wall and All (WAA 1) Pure Acrylic' paint :		
2	Internal plastered walls	m2	440.40
	Prepare Surface And Apply One Coat Primer And 2mm Thick "Marmoran" Resin Bonded Plaster Of Approved Colour Trowelled On In Strict Accordance With The Manufacturers Instructions		
3	External plastered walls in narrow widths	m2	1.06
<u>ON SMOOTH CONCRETE SURFACES</u>			
<u>Specialist Floor Coating</u>			
	Prepare Surface And Apply 4.5mm Thick Sikafloor-21N PurCem Polyurethane Floor coating Of Approved Colour Applied Complete Including Primer Coat, Etc All In Strict Accordance With The Manufacturers Instructions (Product Must Have A 10 Year Guarantee And Certificate To Be Provided After Successful Installation Thereof) On:		
4	Power floated concrete floors including any necessary grinding, etc	m2	1 727.52
5	Extra over last for cutting and sealing all necessary joints	m	135.00
<u>ON WOOD SURFACES</u>			
	Prepare Surface And Apply One Coat Primer On:		
6	Backs of frames not exceeding 300mm girth	m	3.09
	Prepare Surface And Apply One Coat Primer And Two Coats Dulux Pearl glo Paint On:		
7	Doors	m2	44.79
8	Door frames	m2	1.56
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 14			
PAINTWORK			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

SECTION SUMMARY - BUILDING WORKS

Bill No		Page No	Amount
1	EARTHWORKS	25	
2	CONCRETE, FORMWORK AND REINFORCEMENT	31	
3	MASONRY	36	
4	WATERPROOFING	39	
5	ROOF COVERINGS	45	
6	CARPENTRY AND JOINERY	47	
7	IRONMONGERY	50	
8	STRUCTURAL STEELWORK	55	
9	METALWORK	59	
10	PLASTERING	63	
11	TILING	65	
12	PLUMBING AND DRAINAGE	76	
13	GLAZING	77	
14	PAINTWORK	79	
Carried to Final Summary			R
Section No. 2			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Item No	Quantity	Rate	Amount
Carried to Final Summary			R
Section No. 3 Bill No. 1 Empty Bill - System Generated			
EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A			

Bill
No

SECTION SUMMARY - PROVISIONAL SUMS AND ALLOWANCES

Page
No

Amount

SECTION NO. 3 : PROVISIONAL SUMS AND ALLOWANCES

BILL NO.1 : PROVISIONAL SUMS

PROVISIONAL SUMS

The tenderer's attention is drawn to the fact that all Provisional Sums stated are nett and do not include builder's discount.

Electrical Installation Including Bulk Supply

Provide the sum of R4 350 000 (Four Million Three Hundred and Fifty Thousand Rand) for Electrical Installation Including Bulk Supply

Item

Allow for profit

Item

Allow for attendance

Item

HVAC Installation

Provide the sum of R1 810 000-00 (One Million Eight hundred and ten thousand rand) for HVAC Installation

Item

Allow for profit

Item

Allow for attendance

Item

Fire Protection Including Sprinkler Installation, Fire Hose Reels And Internal Hydrants

Provide the sum of R1 800 000-00 (One million Eight hundred thousand rand) for Fire Protection Including Sprinkler Installations, Fire Hose Reels And Internal Hydrants

Item

Allow for profit

Item

Allow for attendance

Item

Carried Forward

R

Section No. 3

EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A

Bill No	SECTION SUMMARY - PROVISIONAL SUMS AND ALLOWANCES	Page No	Amount
	Brought Forward		R
	<u>Hot Water and cold water supply</u>		
	Provide the sum of R330 000-00 (Three hundred and Thirty thousand rand) for Hot Water Generation And Storage	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Retaining Structure</u>		
	Provide the sum of R800 000-00 (Eight hundred thousand rand) for Retaining structure	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Subsoil drainage</u>		
	Provide the sum of R400 000-00 (Four Hundred Thousand rand) for Aluminium Windows, Louvres, Doors, Viewing Panels, Etc	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Skylights Removal</u>		
	Provide the sum of R150 000.00 (One Hundred and Fifty thousand rand) for the removal and modification of the existing roof	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Turnstyles</u>		
	Provide the sum of R180 000-00 (One hundred and eighty thousand rand) for Turnstyles	Item	
	Carried Forward		R
	Section No. 3		
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Bill No	SECTION SUMMARY - PROVISIONAL SUMS AND ALLOWANCES	Page No	Amount
	Brought Forward		R
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Statutory Signage</u>		
	Provide the sum of R40 000-00 (Forty thousand rand) for Statutory Signage	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Stormwater drainage</u>		
	Provide the sum of R700 000-00 (Seven hundred thousand rand) for Storm water drainage	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Fenced partitioned wall</u>		
	Provide the sum of R250 000-00 (Two hundred and Fifty thousand rand) for Fenced partitioned wall	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Cat Ladders</u>		
	Provide the sum of R35 000-00 (Thirty five thousand rand) for Cat Ladders	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Fencing And Gates</u>		
	Provide the sum of R300 000-00 (Three hundred and fifty thousand rand) for Fencing And Gates	Item	
	Carried Forward		R
	Section No. 3		
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Bill No	SECTION SUMMARY - PROVISIONAL SUMS AND ALLOWANCES	Page No	Amount
	Brought Forward		R
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Bulk Water And Fire Main Connection</u>		
	Provide the sum of R600 000-00 (Six hundred thousand rand) for Bulk Water And Fire Main Connection	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Fibreglass Gutters And Geberit Pluvia Rainwater System</u>		
	Provide the sum of R1 200 000-00 (One million Two hundred thousand rand) for Fibreglass Gutters And Geberit Pluvia Rainwater System	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Bulk Earthworks</u>		
	Provide the sum of R380 000-00 (Three hundred and Eighty rand) for Bulk Earthworks	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Soil drainage and reticulation</u>		
	Provide the sum of R350 000-00 (Three hundred and Fifty thousand rand) for Soil drainage and reticulation	Item	
	Allow for profit	Item	
	Allow for attendance	Item	
	<u>Budgetary Allowances</u>		
	Carried Forward		R
	Section No. 3		
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Bill No	SECTION SUMMARY - PROVISIONAL SUMS AND ALLOWANCES	Page No	Amount
	Brought Forward		R
	<u>The following budgetary allowances are for work to be executed by the Contractor and paid for in terms of the Conditions of Contract (work is to be remeasured at Bill rates where-ever possible).</u>		
	Provide the budgetary allowance of R250 000-00 (Two hundred and fifty thousand rand) for Gate House	Item	
	Provide the budgetary allowance of R150 000-00 (One hundred and fifty thousand rand) for builders work for electrical	Item	
	Provide the budgetary allowance of R20 000.00 (Twenty thousand thousand rand) for builders work for dock levellers	Item	
	Provide the budgetary allowance of R2 850 000.00 (Two million Eight hundred and fifty thousand rand) for Contingencies	Item	
1	Empty Bill - System Generated	81	
	Carried to Final Summary		R
	Section No. 3		
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

Section No	FINAL SUMMARY	Page No	Amount
1	PRELIMINARIES	20	
2	BUILDING WORKS	80	
3	PROVISIONAL SUMS AND ALLOWANCES	86	
	Sub Total		R
	VAT		R
	Grand Total Carried to Form of tender		R
	Carried to Form of Tender		R
	EXTENSION TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A		

C2.3 SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

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

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

Project title:	EXTENSION OF AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ
Tender no:	EB/AUT/EXT/10/19/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: WITNESS 1
..... SIGNATURE: TENDERER	NAME:
NAME: SIGNATURE: WITNESS 2
CAPACITY:	NAME:
DATE:	

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

C2.4: GUARANTOR PROFORMA LETTER OF INTENT

C2.4: Guarantor Proforma Letter of Intent

EXTENSION OF AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ

TENDER No. EB/AUT/EXT/10/19/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: Ms N. Boya

Dear Madam,

ELIDZ: EXTENSION OF AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ - TENDER No. EB/AUT/EXT/10/19/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: Provision of Extensions to existing Manufacturing
Facility IN ZONE 1A OF THE ELIDZ.

Yours faithfully,

.....
Guarantor

C2.5: CONTRACT DATA CE

C2.5: Contract Data CE (Contractor)

	<p>The Conditions of Contract are clauses 1 to 42 of the JBCC series 2000 Principal Building Agreement (Edition 5 of July 2007) prepared by the Joint Building Contracts Committee.</p> <p>Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</p>		
	<p>Definitions</p> <p>The definitions used in this document and the interpretation thereof are as listed in the Principal Building Agreement. The word or phrase of a definition is in bold text and shall bear the meaning assigned to it in the Principal Building Agreement. Where such word or phrase is not highlighted it shall bear the meaning consistent with the context of its use. The listed defined word or phrase does not qualify as a definition where information required to be stated in the contract data has not been provided.</p>		
	<p>Provision of Contract Data</p> <p>Spaces requiring information must be filled in, shown as “not applicable” or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the contract data.</p>		
	<p>Reference Clauses</p> <p>Where relevant the Principal Building Agreement clause applicable to the required information is printed in italics under the Contract Data clause number ie. <i>[27.4.2]</i></p>		
1.0	CONTRACTING PARTY		
1.1	Contractor:		
	Postal address:		
		Code	
	Tel :	Fax :	
	Email :		
	Tax/VAT registration No :		
[1.2]	Physical address:		
	Tel :	Fax :	
	Email:		
2.0	SECURITIES		
2.1	Security		
	The security provisions selected are:		
2.1.1 [14.3]	Variable Construction Guarantee	Yes/No	
2.1.2 [14.4]	Fixed Construction Guarantee and Payment Reduction	Yes/No	
2.1.3	Advanced Payment is required. Where	(Amount)	

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

EXTENSIONS TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ -
EB/AUT/EXT/10/19/Z1A

[14.5]	"Yes"		
2.1.4	An Advance Payment Guarantee to be provided	Yes/No	
3.0	PAYMENT AND ADJUSTMENT OF PRELIMINARIES		
3.1	<p>Payment of Preliminaries</p> <p>The payment of preliminaries shall be according to the option selected by the contractor. The amount included in each monthly payment certificate in respect of preliminaries as stated in the contract data shall be.</p>		
3.1.1	Option A		
	<p>Assessed by the principal agent as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the contract sum excluding:</p> <ul style="list-style-type: none"> • The amount for preliminaries • Any contingency sum • Any amount in respect of CPAP • All inclusive of tax 		
3.1.2	Option B		
	<p>Calculated from the priced items in the bills of quantities/lump sum document. The contractor and the principal agent shall agree on a division of the priced preliminaries items into:</p> <ul style="list-style-type: none"> • An initial or establishment charge • A monthly charge • A final or disestablishment charge • All inclusive of tax <p>In arriving at such a division cognizance shall be taken of such factors as:</p> <ul style="list-style-type: none"> • Premiums for annually renewable insurance policies • Plant, scaffolding and the like remaining the property of the contractor or the hiring company and the capital costs thereof not treated as part of the initial charge • Where the initial construction period is extended the monthly charge shall be recalculated on the same basis as was originally applied but taking into account the revised construction period and the amounts already paid to the contractor • Should the contractor and the principal agent be unable to agree such division then the principal agent shall make a division of the amount of the preliminaries to be incorporated in the valuations for each monthly payment certificate. 		
3.2	Adjustment of preliminaries		
	<p>The amount or items of preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time and/or value have on preliminaries. Such an adjustment shall be based on the particulars provided by the contractor for this purpose in terms of Option A or B and shall preclude any further adjustment of preliminaries.</p>		
	<p>Adjustment of preliminaries in terms of Option A or B shall apply notwithstanding the actual employment of resources by the contractor in the execution of the works. The adjustment of preliminaries shall be based on the option as selected in the contractor's tender.</p>		
	<p>For the adjustment of preliminaries both the contract sum and the contract value shall exclude:</p> <ul style="list-style-type: none"> • The amount of the preliminaries • Any contingency sum • Any amount in respect of CPAP • Dayworks • All inclusive of tax 		
3.2.1	Option A		

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

	<p>The amount of preliminaries shall be adjusted in the following categories:</p> <ul style="list-style-type: none"> • An amount which shall not be varied • An amount which shall be varied in proportion to the contract value as compared with the contract sum • An amount which shall be varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment of of the contract value in terms of the agreement. • The contractor shall, within fifteen (15) working days of taking possession of the site, give the principal agent a breakdown, sub-divided into the above categories, of the amount for preliminaries in tabulated form, all to the satisfaction of the principal agent.
	<p>Should the contractor fail to provide such information with in the period stipulated then the amount for preliminaries shall be subdivided into the following proportions:</p> <ul style="list-style-type: none"> • 10% (ten percent) which amount shall not be varied • 15% (fifteen percent) which amount shall be varied in proportion to the contract value as compared to the contract sum • 75% (seventy percent) which amount shall be varied in proportion to the construction period as compared with the initial construction period
	<p>For a lump sum document, should the contractor fail to identify the amount for preliminaries, then such an amount shall be deemed to be 7.5% (seven and a half percent) of the contract sum excluding:</p> <ul style="list-style-type: none"> • Any contingency sum • Any amount in respect of CPAP • All inclusive of tax
	<p>Where sectional completion is required in terms of the agreement, the contractor shall provide the principal agent with the division of the above categorised amounts into sections. Should the contractor fail to provide such information within the period stipulated the categorised amounts shall be prorated to the value of each section</p>
3.2.2	<p>Option B</p> <p>The contractor shall, within fifteen (15) working days of taking possession of the site, give the principal agent with a detailed breakdown of the amount for preliminaries. This breakdown shall set out, among others, full particulars of administrative, supervisory and other personnel, plant, transport and other resources and charges included in the amount for preliminaries. The contractor shall show the periods to which the individual items relate with the charge rate for such items by means of a program all to the satisfaction of the principal agent.</p> <p>Where sectional completion is required in terms of the agreement, the contractor shall provide the principal agent with details of the resources required for each section and those that are common to sections. Should the contractor fail to provide such information with in the period stipulated, Option A shall apply.</p>
3.2.3	<p>Payment certificate cash flow</p> <p>The contractor shall provide all reasonable assistance to the principal agent in the preparation of cash flow projections of claims for payment certificates where required by the employer. The projections shall be based on the program and shall be updated as and when the program requires updating. The cooperation of the contractor in terms of this item shall not prejudice his right to receive payment in terms of the agreement</p>
3.2.4	<p>The contract value shall be adjusted according to CPAP [3.1] (Yes/No) YES</p>
3.2.5	<p>Payment of preliminaries [3.1.1, 3.1.2] (A or B)</p>
3.2.6	<p>Adjustment of preliminaries [3.2.1, 3.2.2] (A or B)</p>
4.0	<p>EMPLOYER CHANGES TO JBCC STANDARD DOCUMENTS</p>

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

EXTENSIONS TO THE AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ -
EB/AUT/EXT/10/19/Z1A

4.1	Changes (if any) in terms of the Contract Data - Employer are accepted (Yes/No)	
	<i>Where "No" an addendum referenced to this clause is to be attached</i>	
5.0	THE TENDER	
5.1	This tender is to be submitted to the Employer at the street address provided in the invitation to tender before the tender closing date and time stipulated therein	
5.2	By the submission of this tender to the employer the tenderer offers and agrees to contract for, execute and complete the works for the tender sum as stated below	
5.3	Tenders will be opened in public directly after the stated closing time. Only the total tender sum as stated in each tender will be announced (Not Applicable)	
5.4	The lowest or any tender will not necessarily be accepted	
5.5	This tender shall remain in full legal force for 120 (One Hundred and Twenty) calendar days. the tenderer accepts liability for damages as may be suffered by the Employer should the Tender validity period not be honoured.	
5.6	This tender takes into account all listed items [4.0] for the purpose of preparing and submitting this tender.	
5.7	The successful tenderer will be appointed in terms of the JBCC Principal Building Agreement.	

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

C2.6: FORM OF OFFER AND ACCEPTANCE

C2.6: Form of Offer and Acceptance

Project title:	EXTENSION OF AUTOMOULD MANUFACTURING FACILITY IN ZONE 1A OF THE ELIDZ
Contract No:	EB/AUT/EXT/10/19/Z1A

A. OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **EXTENSION OF AUTOMOULD 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: 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, Sunnyridge, 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.

C2.7: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

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

Part C2.7: Declaration Certificate for Local Production and Content for Designated Sectors

C2.7: 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 at no cost.

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

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	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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/industrial_development/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: _____

**C2.8: DECLARATION FOR 30% SMME SUB-
CONTRACTING AND TARGETED PERCENTAGE PER
CIDB GROUP**

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

C2.8 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.*

<p>SIGNED FOR THE TENDERER:</p> <p>.....</p> <p style="text-align: center;">NAME OF TENDERER</p>	
<p>.....</p> <p style="text-align: center;">SIGNATURE: TENDERER</p> <p>NAME:</p> <p>CAPACITY:</p> <p>DATE:</p>	<p>.....</p> <p style="text-align: center;">SIGNATURE: WITNESS 1</p> <p>NAME:</p> <hr/> <p>.....</p> <p style="text-align: center;">SIGNATURE: WITNESS 2</p> <p>NAME:</p>