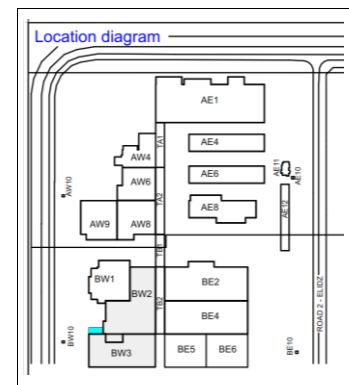


BW2 – Rev0



Tender

PROVISION OF AN EXPANSION TO AN EXISTING MANUFACTURING FACILITY

AT THE

EAST LONDON INDUSTRIAL DEVELOPMENT ZONE

CONTRACT NO: EB/BW2/EXT/04/19/Z1A

**PROVISION OF AN EXPANSION TO AN EXISTING
MANUFACTURING FACILITY**

ENVELOPE B: FINANCIAL PROPOSAL

East London IDZ
Contact person: G Whittaker
Fax No: 086 605 0942
Email: gary@elidz.co.za

Bisiwe van Niekerk Inc.
The Ridge Office Park, 2nd Floor, 3 Berea
Terrace, Berea, East London
PO Box 15546, Beacon Bay, 5205

Contact Person: Lungisa Gongxeka
Tel : 043 - 721 1043/4
E-Mail : lungisa@bisiwe.co.za

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

Envelope A: Technical Proposal Volume 2 of 2 - Returnables

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

PART C1: AGREEMENTS AND CONTRACT DATA

C1.1 CONTRACT DATA EC

C1.1: CONTRACT DATA EC (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.</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. [27.4.2]</p>
1.0	CONTRACTING AND OTHER PARTIES
1.1 [1.2]	<p>Employer:</p> <p>East London Industrial Development Zone SOC Ltd</p> <p>Postal address:</p> <p>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:</p> <p>Lower Chester Road Sunnyridge East London Code 5201</p>
1.2 [5.1]	<p>Principal Agent</p> <p>Newground Projects</p> <p>Physical address:</p> <p>17 St Andrews Road, Selborne Code 5247 Tel: 043 722 5864 Email: louis@newground.co.za</p>
1.3 [5.2]	<p>Agent (1)</p> <p>Osmond Lange Architects</p> <p>Agent's service:</p> <p>ARCHITECT</p>

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

1.4 [5.2]	Physical address:
	Kwa-Lukhozi, Quartzite Drive, Selborne East London Code 5201 Tel: 043 721 1321 Fax: 043 721 1330 Email: c.brink@lukhozi.co.za
	Agent (2)
	Bisiwe van Niekerk Inc.
	Agent's service: ARCHITECT
1.5 [5.2]	Physical address:
	The Ridge Office Park, 2nd Floor, 3 Berea Terrace, Berea, East London PO Box 15546, Beacon Bay Code 5205 Tel: 043 - 721 1043/4 Email: lungisa@bisiwe.co.za
	Agent (3)
	Latitude Quantity Surveyors
	Agent's service: QUANTITY SURVEYOR
1.6 [5.2]	Physical address:
	123 Western Avenue, Vincent East London Code 5247 Tel: 043 742 2884 Email: admin@pwqs.co.za
	Agent (4)
	BVI Border (Pty) Ltd
	Agent's service: STRUCTURAL ENGINEERS
1.7 [5.2]	Physical address:
	1st Floor, Esprit House, Triple Point St Helena Road. Beacon Bay Code 5241 Tel: (043) 722 2738 Email: wernerdl@bvi.co.za
	Agent (5)
	Evans Consulting
	Agent's service: ELECTRICAL ENGINEER
1.10 [5.2]	Physical address:
	Selborne, East London East London Code 5213 Tel: 043 743 9528 Email: hamish@hsc.co.za
	Agent (6)
	To be appointed
	Agent's service: SHEQ Consultant
1.10 [5.2]	Physical address:

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

	<p>.....</p> <p>.</p> <p>.....</p> <p>.</p> <p>Code</p> <p>Tel: Fax:</p> <p>Email:</p>				
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: 31 July 2019 , Subject to the DoL issuing the Construction Work Permit.		
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.			No	
2.10 [16.6]	Existing premises will be occupied. Where "yes" the specific requirements are described below or detailed in the contract documents			No	
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	

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

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)	R20,000,00 0
[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
4.0	PRACTICAL COMPLETION DATES AND PENALTIES		
4.1	For the works as a whole	Date	Penalty Amount
[24.3.1] [30.1] [30.2] [30.3]	The date for practical completion and the penalty per calendar day	NA	NA
4.2	For the works in sections	Date	Penalty Amount
[24.3.1] [28.1]	The date for practical completion and the penalty per calendar day	Section 1	27 Sept '19
		Section 2	5 Nov '19
5.0	DOCUMENTS AND GENERAL		
5.1 [3.7]	No of Construction documents to be supplied to the contractor		3

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

5.2 [3.9]	The priced document may be used as a specification of materials and goods and work methods		No
5.3 [3.10]	The contractor shall provide a schedule of rates		No
5.4 [3.11]	Changes made to JBCC standard documents		Yes
		(Addendum No)	NA
5.5 [3.11]	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
5.6 [22.2]	Work to be undertaken by direct contractors		Yes
5.7 [24.9]	On achievement of practical completion the contractor is to hand over manuals etc. related to the works as listed below:		
	(1) Electrical Installation	(2) Access Control Installation	
	(3) Fire Detection Installation	(4) Air Conditioning Equipment Installation	
	(5) Sprinkler Installation	(6) Dock Levelers	
	(7) High Speed Doors		
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.		
3.1	Clause 3.1 shall be amended as follows: Replace clause 3.1 with No clause		
3.3	Delete the following in the third line of clause 3.3 “of having received a payment guarantee from the employer [3.1]”		

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 ten (10) working days after the acceptance of the tender</p> <ul style="list-style-type: none"> • OHS Plan/File • Construction Guarantee • Construction Programme
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>

19.1.3	<p>Add the following clause after clause 19.1.2</p> <p>Clause 19.1.3 An office for the Clerk of Works and Resident Engineers. The office shall consist of one room with a floor area of at least 30 m² and a ceiling height of at least 2.5 m, shall be weatherproof, shall have a either a wooden boarded floor that is at least 150mm above the ground or a concrete surface bed, and shall be provided with a ceiling and a lining to the walls, or equivalent insulation, with an acceptable type of door with a secure lock, and opening windows of glazed area at least 7 m². The office shall be well ventilated with air-conditioning and shall be so insulated as to provide comfortable and dust free working conditions. The office shall have 10 power points and acceptable lighting. The following furniture needs to be provided: 10 chairs, 5 desks, 5 filing cabinets, 2 drawing racks.</p> <p>The access and the areas around the meeting room and office 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 meeting room and office 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 ‘Bonnox’ fence covered with shade cloth.</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	Amend by substituting seven (7) calendar days with thirty (30) calendar days.
34.10	Amend by substituting seven (7) calendar days with thirty (30) calendar days.
31.5.3	<p>The Contract is to be adjusted using CPAP indices. (Clause 32.13) [31.5.3]: Yes. Base month is February 2017.</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>

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

	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
	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
	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
31.16.2	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.	
7.0	DECLARATION BY THE PRINCIPAL AGENT	
	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	
		Principal Agent
		Date

C1.2 JBCC FORM OF GUARANTEE



Construction Guarantee

for use with the
JBCC Principal Building Agreement

GUARANTOR DETAILS AND DEFINITIONS

Guarantor means			
Physical address			
Guarantor's signatory 1		Capacity	
Guarantor's signatory 2		Capacity	
Employer means			
Contractor means			
Principal Agent means			
Works means			
Site means			
Agreement means	The JBCC Series 2000 Principal Building Agreement		
Contract Sum means	The accepted amount inclusive of tax of		
Amount in words			
Guaranteed Sum means	The maximum aggregate amount of		
Amount in words			
Construction Guarantee	(Insert Variable or Fixed)		(Insert expiry date)

AGREEMENT DETAILS

Sections:	Total sections (No or n/a)		Last section (No / Identification or n/a)	
Principal Agent issues:	Interim payment certificates, Final payment certificate, Practical completion certificate/s and Final completion certificate/s			

1.0 VARIABLE CONSTRUCTION GUARANTEE

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

GUARANTOR'S LIABILITY

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

Amount in words: _____

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

Amount in words: _____

PERIOD OF LIABILITY

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

From and including the day after the date of the aforesaid interim payment certificate and up to and including the date of the only practical completion certificate or last practical completion certificate where there are sections

- 1.1.3 Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:
-
- Amount in words: _____
- 1.1.4 Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract sum) in the amount of:
-
- Amount in words: _____
- 1.2 For avoidance of doubt the Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the period in question

From and including the day after the date of the applicable practical completion certificate and up to and including the date of the only final completion certificate or last final completion certificate where there are sections

From and including the day after the date of the applicable final completion certificate and up to and including the date of the final payment certificate where payment is due to the Contractor, whereupon this Construction Guarantee shall expire. Where the final payment certificate reflects payment due to the Employer, this Construction Guarantee shall expire upon payment of the full amount certified

2.0 FIXED CONSTRUCTION GUARANTEE

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

GUARANTOR'S LIABILITY

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

Amount in words: _____

PERIOD OF LIABILITY

From and including the date of issue of this Construction Guarantee and up to and including the date of the only practical completion certificate or the last practical completion certificate where there are sections, upon which this Construction Guarantee shall expire

- 3.0 The Guarantor hereby acknowledges that:
- 3.1 Any reference in this Guarantee to the Agreement is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship
- 3.2 Its obligation under this Guarantee is restricted to the payment of money
- 4.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0 , the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
- 4.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an interim or final payment certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2
- 4.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the first written demand in terms of 4.1 and that the sum certified has still not been paid therefore the Employer calls up this Construction Guarantee and demands payment of the sum certified from the Guarantor
- 4.3 A copy of the said payment certificate which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0
- 5.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0 , the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Construction Guarantee stating that:

- 5.1 The Agreement has been cancelled due to the Contractor's default and that the Construction Guarantee is called up in terms of 5.0. The demand shall enclose a copy of the notice of cancellation; or
- 5.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Construction Guarantee is called up in terms of 5.0. The demand shall enclose a copy of the court order
- 6.0 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall upon the date of issue of the final payment certificate submit an expense account to the Guarantor showing how all monies received in terms of the Construction Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Construction Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor
- 9.0 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim his release from this Construction Guarantee on account of any conduct alleged to be prejudicial to the Guarantor
- 10.0 The Guarantor chooses the physical address as stated above for all purposes in connection herewith
- 11.0 This Construction Guarantee is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or payment in full of the Guaranteed Sum or on the Guarantee expiry date, whichever is the earlier, where after no claims will be considered by the Guarantor. The original of this Construction Guarantee shall be returned to the Guarantor after it has expired
- 12.0 This Construction Guarantee, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a court order
- 13.0 Where this Construction Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court

Signed at	_____	Date	_____
Guarantor's Signatory 1	_____	Guarantor's Signatory 2	_____
Witness	_____	Witness	_____

Guarantor's seal or stamp

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.

C2.2 PROVISIONAL BILLS OF QUANTITIES

(To Be Completed In Black Ink And Returned)

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

PROVISIONAL BILLS OF QUANTITIES

FOR

**Additions and Alterations to BW1 & BW2 Manufacturing Facilities within the
Automotive Suppliers Park (ASP1) in Zone 1A of the East London Industrial
Development Zone for Linde Wiemann RSA (Pty) Ltd**

FOR

East London IDZ

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SECTION NO 1

PRELIMINARIES

- Principal Contract
Linde Wiemann RSA(Pty)Ltd

Amount

SECTION NO. 1

PRELIMINARIES

PRELIMINARIES

NOTES:

BUILDING AGREEMENT AND PRELIMINARIES

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

The JBCC Principal Building Agreement Contract Data EC & CE form an integral part of this agreement.

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.

Contractors are referred to the abovementioned documents for the full intent and meaning of each clause

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.

Where any item is not relevant to this specific agreement such item is marked N/A (signifying not applicable).

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.

Carried To Section Summary

R

Section No. 1

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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).

SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions

1 Clause 1.0 - Definitions and interpretation

Item

F: V: T:

Objective and preparations

2 Clause 2.0 - Offer acceptance and performance obligations

Item

F: V: T:

3 Clause 3.0 - Documents

Note: Contractor is to take note that it is the responsibility of the Contractor to plot and print all paper copies of drawings that they require for the duration of the project. All printing costs are to be borne by the contractor.

Item

F: V: T:

4 Clause 4.0 - Design responsibility

Item

F: V: T:

5 Clause 5.0 - Employer's agents

Item

F: V: T:

6 Clause 6.0 - Contractor's site representative

Item

F: V: T:

7 Clause 7.0 - Compliance with laws and regulations

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, 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 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]

Also see the Health & Safety items included under the Specific Preliminaries in Section C which the Contractor needs to ensure are priced and included into the Health & Safety provisions.

Construction Environmental Management Plan (C3)

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		Amount
	<p>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.</p> <p>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.</p> <p>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.</p>	
	F: V: T:	Item
8	Clause 8.0 - Works risk	Item
	F: V: T:	
9	Clause 9.0 - Indemnities	Item
	F: V: T:	
10	Clause 10.0 - Insurances	Item
	F: V: T:	
11	Clause 11.0 - Special Insurances	Item
	F: V: T:	
12	Clause 12.0 - Effecting Insurances	Item
	F: V: T:	
13	Clause 13.0 - Assignment	Item
	F: V: T:	
14	Clause 14.0 - Security	Item
	F: V: T:	
	<u>Execution</u>	
15	Clause 15.0 - Preparation for and execution of the works	Item
	F: V: T:	
16	Clause 16.0 - Site and access	Item
	F: V: T:	
17	Clause 17.0 - Contract instructions	Item
	F: V: T:	
18	Clause 18.0 - Setting out of the works	
	<p>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>	Item
	F: V: T:	
19	Clause 19.0 - Temporary works and plant	
	a) Site Enclosure	
Carried To Section Summary		R
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		Amount
	<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, 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.</p> <p>b) Site Establishment</p> <p>All site establishment, offices and storage of materials will be strictly limited to an area outside the site across the existing tarred roadway, 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.</p> <p>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 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.</p> <p>F: V: T:</p>	
20	<p>Clause 19.1.2</p>	Item
	<p>The contractor shall provide, maintain and remove on completion, the following accommodation.</p> <p>a) Meeting Room</p> <p>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.</p> <p>The room is to be well vented and fitted with two large white boards with markers and erasers.</p> <p>b) Generally</p> <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>Carried To Section Summary</p> <p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	<p>R</p>

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		Amount
	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.	
	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 shade cloth.	
	F: V: T:	
21	Clause 20.0 - Nominated subcontractors	Item
	Refer to the provisions on general attendance hereinafter	Item
	F: V: T:	
22	Clause 21.0 - Selected subcontractors	
	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	Item
	F: V: T:	
23	Clause 22.0 - Employer's direct contractors	Item
	F: V: T:	
24	Clause 23.0 - Contractor's domestic subcontractors	Item
	F: V: T:	
	<u>Completion</u>	
25	Clause 24.0 - Practical completion	
	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.	Item
	F: V: T:	
26	Clause 25.0 - Works completion	Item
	F: V: T:	
27	Clause 26.0 - Final completion	Item
	F: V: T:	
28	Clause 27.0 - Latent defects liability period	Item
	F: V: T:	
29	Clause 28.0 - Sectional completion	Item
	F: V: T:	
30	Clause 29.0 - Revision of date for practical completion	
	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)	Item
	F: V: T:	
	Carried To Section Summary	R
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		Item	Amount
31	<p>Clause 30.0 - Penalty for late or non-completion</p> <p>F: V: T:</p> <p><u>Payment</u></p>		
32	<p>Clause 31.0 - Interim Payment</p> <p>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.</p> <p>F: V: T:</p>	Item	
33	<p>Clause 32.0 - Adjustment to the contract value</p> <p>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.</p> <p>F: V: T:</p>	Item	
34	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F: V: T:</p>	Item	
35	<p>Clause 34.0 - Final account and final payment</p> <p>F: V: T:</p>	Item	
36	<p>Clause 35.0 - Payment to other parties</p> <p>F: V: T:</p> <p><u>Cancellation</u></p>	Item	
37	<p>Clause 36.0 - Termination by employer - contractor's default</p> <p>F: V: T:</p>	Item	
38	<p>Clause 37.0 - Termination by employer - loss and damage</p> <p>F: V: T:</p>	Item	
39	<p>Clause 38.0 - Termination by contractor - employer's default</p> <p>F: V: T:</p>	Item	
40	<p>Clause 39.0 - Termination - cessation of the works</p> <p>F: V: T:</p> <p><u>Dispute</u></p>	Item	
41	<p>Clause 40.0 - Settlement of disputes</p> <p>F: V: T:</p> <p><u>Contract Agreement</u></p>	Item	
42	<p>Clause 41.0 - Post tender provisions</p> <p>The required post tender information shall be inserted in the post tender provisions after consultation with the contractor</p> <p>F: V: T:</p>	Item	
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		Item	Amount
43	Clause 42.0 - Contractual agreement F: V: T:		
	<u>SECTION B: PRELIMINARIES</u>		
	<u>Definitions and Interpretation</u>		
44	Clause 1.0 - Definitions and interpretation F: V: T:	Item	
	<u>Documents</u>		
45	Clause 2.1 - Checking of documents F: V: T:	Item	
46	Clause 2.2 - Provisional bills of quantities F: V: T:	Item	
47	Clause 2.3 - Availability of construction information F: V: T:	Item	
	<u>Previous work and adjoining properties</u>		
48	Clause 3.1 - Previous work - dimensional accuracy F: V: T:	Item	
49	Clause 3.2 - Previous work - defects F: V: T:	Item	
50	Clause 3.3 - Inspection of adjoining properties F: V: T:	Item	
	<u>Samples, shop drawings and manufacturer's instructions</u>		
51	Clause 4.1 - Samples of materials F: V: T:	Item	
52	Clause 4.2 - Workmanship samples F: V: T:	Item	
53	Clause 4.3 - Shop drawings F: V: T:	Item	
54	Clause 4.4 - Compliance with manufacturer's instructions F: V: T:	Item	
	<u>Deposits and fees</u>		
55	Clause 5.1 - Deposits and fees F: V: T:	Item	
	<u>Temporary services</u>		
56	Clause 6.1 - Water F: V: T:	Item	
57	Clause 6.2 - Electricity F: V: T:	Item	
58	Clause 6.3 - Telecommunication facilities F: V: T:	Item	
	Carried To Section Summary	R	
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		Item	Amount
59	Clause 6.4 - Ablution facilities F: V: T:		
	<u>Prime cost amounts</u>		
60	Clause 7.1 - Responsibility for prime cost amounts F: V: T:		
	<u>Special attendance on n/s subcontractors</u>		
61	Clause 8.1 - Special attendance F: V: T:		
	<u>General</u>		
62	Clause 9.1 - Protection of the works F: V: T:		
63	Clause 9.2 - Protection/isolation of existing/sectionally occupied works F: V: T:		
64	Clause 9.3 - Security of the works F: V: T:		
65	Clause 9.4 - Notice before covering work F: V: T:		
66	Clause 9.5 - Disturbance F: V: T:		
67	Clause 9.6 - Environmental disturbance F: V: T:		
68	Clause 9.7 - Works cleaning and clearing F: V: T:		
69	Clause 9.8 - Vermin F: V: T:		
70	Clause 9.9 - Overhand work F: V: T:		
	<u>Schedule of Variables</u>		
	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.		
71	10.1 - Provisional Bills of Quantities [clause 2.2] The quantities are provisional - Yes		
	10.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete - No		
	10.3 - Previous work - dimensional accuracy [clause 3.1] - No		
	10.4 - Previous work - defects [clause 3.2] - No		
	10.5 - Inspection of adjoining properties [clause 3.3] - Yes		
	Carried To Section Summary	R	
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		Amount
10.6 - Water [clause 7.2]		
Option A (by contractor) - Yes		
Option B (by employer - free of charge) - No		
Option C (by employer - metered) - No		
10.7 - Electricity [clause 7.3]		
Option A (by contractor) - Yes		
Option B (by employer - free of charge) - No		
Option C (by employer - metered) - No		
10.8 - Telecommunications (clause 7.4)		
Telephone - Yes		
Facsimile - Yes		
E-Mail - Yes		
10.9 - Ablution facilities [clause 7.5]		
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		
F: V: T:		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
<u>Specific Preliminaries :</u>		
72	Site instructions	
	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	
	F: V: T:	
73	Overtime	
	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	
	F: V: T:	
74	Dayworks	
	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.	
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	Amount
<p>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.</p> <p>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.</p> <p>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.</p> <p>Time lost due to inclement weather shall be excluded from the time charged.</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>Item</p>
<p>F: V: T:</p> <p>75 Warranties for materials and workmanship</p> <p>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</p> <p>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.</p>	
<p>Carried To Section Summary</p> <p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	<p>R</p>

- Principal Contract
Linde Wiemann RSA(Pty)Ltd

		Amount
	<p>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.</p> <p>F: V: T:</p>	Item
76	<p>Co-operation of the contractor for cost management</p> <p>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.</p> <p>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.</p> <p>F: V: T:</p>	Item
77	<p>Overloading</p> <p>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.</p> <p>F: V: T:</p>	Item
78	<p>Propping of floors below</p> <p>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.</p> <p>F: V: T:</p>	Item
79	<p>Testing of windows for watertightness</p> <p>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.</p> <p>F: V: T:</p>	Item
80	<p>Testing of flat roof waterproofing for watertightness</p>	
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		Amount
81	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.	Item
	F: V: T:	
82	Ingress of water	Item
	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.	
83	Proprietary branded products	Item
	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.	
84	As built drawings	Item
	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.	
85	Removal and Making Good of Temporary Works, etc, on Completion	Item
	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.	
86	Making Good	Item
	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.	
86	Shop Drawings	
	F: V: T:	
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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.

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.

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

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87	<p>Scaffolding</p> <p>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.</p> <p>F: V: T:</p>	Item
88	<p>Media releases</p> <p>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</p> <p>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</p> <p>F: V: T:</p>	Item
89	<p>Occupational Health & Safety</p> <p>Preparation of the Contractor's site specific Health and Safety Plan & Risk Assessment</p> <p>F: V: T:</p>	Item
90	<p>Occupational Health & Safety</p> <p>Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations</p> <p>F: V: T:</p>	Item
91	<p>Occupational Health & Safety</p> <p>Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations</p> <p>F: V: T:</p>	Item
92	<p>Occupational Health & Safety</p> <p>Provision of Personal Protective Equipment (PPE), as listed below:</p> <p>(a) Reflective Vests</p> <p>(b) Hard Hats</p> <p>(c) Protective Foot Wear</p> <p>(d) Earplugs</p> <p>(e) Dust Masks</p> <p>(f) Gloves</p> <p>(g) Ear Defenders SABS approved</p> <p>(h) Overalls</p> <p>F: V: T:</p>	Item
93	<p>Occupational Health & Safety</p>	
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			Amount
	Provision of a full time Construction Health and Safety Officer, SACPCMP Registered. F: V: T:	Item	
94	Occupational Health & Safety Cost of Medical Certificates and Medical Surveillance - Initial (Baseline) Medical Examinations F: V: T:	Item	
95	Occupational Health & Safety Cost of Medical Certificates and Medical Surveillance - Periodic and Exit Medical Examinations F: V: T:	Item	
96	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. 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. F: V: T:	Item	
	SUMMARY OF CATEGORIES Category : Fixed R..... Category : Value R..... Category : Time R.....		
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PRELIMINARIES

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SECTION SUMMARY

SECTION NO 2

BUILDING WORKS

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Linde Wiemann RSA(Pty)Ltd

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BUILDING WORKS</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <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> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide , erect and remove when directed , any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 1km to store and handed over to the employer</p>				
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	Unit	Quantity	Rate	Amount
<p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described . Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)</p> <p><u>TEMPORARY BARRICADES, SCREENS, ETC</u></p> <p><u>Temporary barricades, screens, roofs, etc including removal</u></p>				
1 Dust screen barrier average 8m high between concrete floor and underside roof sheeting, of suitable timber framing with 375 micron polyethylene sheeting stapled on one side, including corners, ends, etc.	m	60		
2 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.	m	147		
<p><u>REMOVAL OF EXISTING WORK</u></p> <p><u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u></p>				
3 Upstand beams/ bund wall on concrete surface beds	m ³	1		
4 Retaining wall to below new floor level	m ³	7		
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		Unit	Quantity	Rate	Amount
5	Portion of 200mm Thick surface beds in external hardstand for new ramp	m ²	25		
	<u>Breaking down and removing brickwork etc</u>				
6	One brick internal fire walls	m ²	208		
7	One brick internal walls	m ²	100		
	<u>Taking out and removing doors, windows, etc from brickwork to be demolished</u>				
8	Timber single door and frame not exceeding 2,5m	No	1		
9	Timber double door and frame exceeding 2,5m and not exceeding 5m	No	2		
	<u>Taking out and removing doors, windows, etc from aluminium side cladding to be demolished</u>				
10	Roller shutter door and framework approximately 3200 x 5000mm high overall, including roller shutter canopy, frames, etc, complete.	No	2		
	<u>Carefully taking out and setting aside doors, windows, etc from aluminium side cladding to be demolished, for later re-use and installation.</u>				
11	Roller shutter door and framework approximately 4000 x 5000mm high overall, including roller shutter canopy, frames, etc, complete.	No	1		
	<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)</u>				
12	Timber single door and steel frame 900 x 2100mm high overall from steel framework and cladding.	No	1		
	<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc., and building up openings in brick walls, including making good cement plaster on both sides (making good paintwork elsewhere)</u>				
13	Aluminium single door and frame 1200 x 2100mm high overall from one brick wall	No	1		
14	Glazed aluminium window 1200 x 1200mm high from one brick wall	No	5		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
15	Aluminium BR7 side cladding sheeting from steel girts.	m ²	230		
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		Unit	Quantity	Rate	Amount
16	Aluminium BR7 side cladding sheeting from steel girts, including cutting sheeting at required height.	m ²	43		
17	Cut back existing lean-to roof structure complete, approximately 14m x 14m overall on plan, consisting of aluminium sheeting roof covering and steel purlins and beams, to allow for new roof structure and covering to match (elsewhere measured).	No	1		
18	119mm Drywall firestop partitions 3,56m high, including studs, built above one brick wall at 4,34m high, etc	m	48		
19	Drywall partitions 3m high, to Existing Quality Lab, including setting aside doors, windows, etc	m	84		
<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u>					
20	Carpet tile floor covering to receive new PU floor coating (elsewhere measured)	m ²	47		
21	Carpet tile floor covering to receive new carpet tiles (elsewhere measured)	m ²	48		
<u>Taking out/off and removing sundry metalwork</u>					
22	Galvanised steel side sheeting rail/girt channel, unbolted or cut and removed from existing steel structures.	m	218		
23	Galvanised steel I-column approximately 4m high, cut and removed including taking loose and removing 4 no holding down bolts from concrete, etc.	No	1		
24	Existing dock leveller to concrete surface beds approximate size 2500 x 3000mm including breaking out dock leveller and preparing surface bed for concrete infill, etc.	No	1		
<u>Relocate existing plumbing fittings including relocating existing piping, including cutting off as necessary, holderbats and making good wall finishes (making good paintwork elsewhere)</u>					
25	Fire hose reel, including piping, relocated from brickwall to adjacent steel column.	No	2		
<u>CUTTING THROUGH FLOORS AND CEILINGS</u>					
<u>Cutting through:</u>					
26	Saw cut existing 200mm thick reinforced concrete surface bed hardstand for new ramp making good concrete all round (new ramp concrete elsewhere)	m	20		
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		Unit	Quantity	Rate	Amount
<u>MAKING GOOD OF FINISHES ETC</u>					
<u>Making good untinted granolithic</u>					
27	Floors where 90mm drywall partition walls removed, including 4,5mm Sika Floor 21N Purcem Polyurethane floor coating, all to match existing.	m	84		
28	Floors where one brick walls removed, including 4,5mm Sika Floor 21N Purcem Polyurethane floor coating, all to match existing.	m	79		
29	Floors where 230mm concrete upstand bund walls removed, including 4,5mm Sika Floor 21N Purcem Polyurethane floor coating, all to match existing.	m	6		
30	Floors in patches on new concrete where dock leveller removed, including 4,5mm Sika Floor 21N Purcem Polyurethane floor coating, all to match existing.	m ²	8		
<u>Making good internal cement plaster</u>					
31	Walls in patches to reveals in narrow widths.	m ²	6		
32	Walls where one brick walls removed	m ²	2		
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>					
<u>Breaking out for and forming plain openings through brick walls, including making good cement plaster on both sides and into reveals (making good paintwork elsewhere).</u>					
33	Opening 175 x 360mm high through one brick wall for pocket to receive steel beam, including caulking around beam and making good to plaster.	No	8		
<u>Breaking out for and forming openings through brick walls for new doors and frames, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>					
34	Opening for new double aluminium door and frame 1500 x 2100mm high overall through one brick wall.	No	2		
35	Opening for new roller shutter door with steel frame 3000 x 3500mm high overall through one brick wall.	No	1		
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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 2</u> <u>EARTHWORKS</u> <u>PREAMBLES</u> <p>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</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> <p>The work is to be carried out on existing surface beds and roadways. Therefore the nature of the ground under the concrete is assumed to be well compacted fill material, therefore earth, but possibly interspersed with soft rock or hard rock</p> <u>Excavation for working space in rock</u> <p>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</p> <u>Carting away of excavated material</u> <p>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</p> <u>Filling</u> <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> <u>Testing</u> <p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</p>				
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	Unit	Quantity	Rate	Amount
<u>FILLING ETC OTHER THAN BULK</u>				
<u>Earth filling using imported G7 material supplied by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density.</u>				
1 Under floors, steps, pavings, etc.	m ³	271		
<u>Earth filling using imported G7 material supplied by the contractor, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density.</u>				
2 Under floors, steps, pavings, etc.	m ³	45		
<u>Earth filling using imported G5 material supplied by the contractor, compacted in layers not exceeding 150mm thick to 98% Mod AASHTO density</u>				
3 Under floors, steps, pavings, etc.	m ³	45		
4 Under ramps, pavings, etc.	m ³	5		
5 Under floors, steps, pavings, etc ontop of existing concrete surface beds for raised floor slab.	m ³	7		
<u>Coarse river sand filling supplied by the contractor</u>				
6 Under floors etc.	m ³	9		
7 Under ramps etc.	m ³	1		
8 Under floors, steps, pavings, etc ontop of existing concrete surface beds for raised floor slab.	m ³	1		
<u>Compaction of surfaces</u>				
9 Compaction of ground surface under ramps, floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m ²	24		
<u>Prescribed density tests on filling</u>				
10 Modified AASHTO Density tests	No	25		
<u>SOIL POISONING</u>				
<u>Soil insecticide in accordance with SANS 5859</u>				
11 Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m ²	316		
<u>Nature of ground</u>				
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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>PREAMBLES</u> <p>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</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>Cost of tests</u> <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> <u>Lightweight concrete</u> <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> <u>Formwork</u> <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>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p>				
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Concrete, Formwork And Reinforcement				

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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				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete</u>				
1 Ramps, surface beds, etc. to falls	m ³	6		
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
<u>25MPa/19mm concrete</u>				
2 Surface beds cast in panels on waterproofing	m ³	2		
3 Steps cast on waterproofing	m ³	1		
4 Cover slabs over existing stormwater manhole	m ³	1		
<u>30MPa/19mm concrete</u>				
5 Steel column plinths	m ³	1		
6 Surface beds cast in patches to fill dock leveller elsewhere removed.	m ³	2		
7 Retaining wall footings, built directly onto existing hardstand.	m ³	9		
8 Retaining walls	m ³	15		
<u>35MPa/19mm concrete with and including washed sand and Fibrin fibre at 900g/m3</u>				
9 Surface beds cast in panels on waterproofing	m ³	60		
<u>TEST CUBES</u>				
<u>Test cubes</u>				
10 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	25		
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<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
11	Tops of column plinths and retaining walls, etc., etc	m ²	10		
<u>Finishing top surfaces of concrete smooth with a power float to FM3 finish</u>					
12	Surface beds, slabs, ramps, etc.	m ²	301		
<u>Extra over power floating for applying Sikafloor Curehard transparent floor hardener including any grinding to concrete floors all applied in strict accordance with the manufacturers instructions</u>					
13	40mm Thick average to surface beds, slabs, etc.	m ²	301		
<u>Finishing top surfaces of concrete smooth with a power float</u>					
14	Surface beds, ramps, slabs, etc.	m ²	25		
<u>Protection of power floated floors:</u>					
15	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	m ²	301		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>Rough formwork to sides</u>					
16	Retaining wall footings cast ontop of existing hardstand	m ²	18		
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	4		
18	Edges, risers, ends and reveals not exceeding 300mm high or wide to side of stormwater manhole cover slab	m	5		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>Smooth formwork to sides</u>					
19	Rectangular column plinths	m ²	2		
20	Retaining walls	m ²	123		
<u>Boxing in smooth formwork to form</u>					
21	25 x 25mm Chamfers along top or bottom edges	m	80		
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		Unit	Quantity	Rate	Amount
<u>MOVEMENT JOINTS ETC</u>					
<u>10mm Horizontal Expansion Joints including 'Jointex' polyethylene joint former with hinged temporary blocking piece, through concrete:</u>					
22	Not exceeding 300mm high (Provisional)	m	73		
<u>Expansion joints with 10mm Impregnated softboard between horizontal concrete and brick surfaces:</u>					
23	10mm Joints not exceeding 300mm high (Provisional)	m	37		
<u>Saw-cut joints</u>					
24	8 x 40mm Saw-cut joints in top of concrete	m	130		
<u>Joggle construction joints through concrete including thick cement slurry to one face</u>					
25	Surface beds not exceeding 300mmm thick	m	110		
<u>REINFORCEMENT, ETC.</u>					
<u>Mild steel reinforcement to structural concrete work</u>					
26	8mm Diameter bars	Tonnes	0.41		
27	10mm Diameter bars	Tonnes	0.41		
<u>High tensile steel reinforcement to structural concrete work</u>					
28	10mm Diameter bars	Tonnes	0.41		
29	12mm Diameter bars	Tonnes	0.41		
30	16mm Diameter bars	Tonnes	0.41		
31	20mm Diameter bars	Tonnes	0.41		
32	25mm Diameter bars	Tonnes	0.41		
33	32mm Diameter bars	Tonnes	0.41		
<u>High tensile steel dowel bars</u>					
34	Y12mm Diameter dowel bar 500mm long at 300mm centres with one end embedded 150mm deep in underside of concrete retaining wall footings and other end drilled and embedded and chemically anchored 250mm deep into existing concrete hardstand including forming hole, etc.	No	369		
<u>Fabric reinforcement</u>					
35	Mesh Ref 395 fabric reinforcement in concrete surface beds, slabs, ramps, etc.	m ²	349		
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Concrete, Formwork And Reinforcement					

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BUILDING WORKS</u></p> <p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <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> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions:</u></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><u>Cement Mortar</u></p> <p>Unless otherwise described, all brickwork shall be built in 1:5 cement mortar.</p> <p><u>Hollow walls etc:</u></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>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.</p> <p><u>Bagged and sealed walls</u></p> <p>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.</p> <p><u>Face bricks:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p>				
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	Unit	Quantity	Rate	Amount
<u>Pointing:</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
<u>Cleaning:</u> To prevent staining of face brickwork, provide cover during building or renovating operations. Refer to Clay Brick Association Clay Masonry Technical Guide, Part 6.				
<u>Samples:</u> 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.				
<u>Sample panels:</u> 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 if so required.				
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1	Half brick walls	m ²	19	
2	Half brick linings tied to concrete upstand beam	m ²	19	
3	One brick walls built onto existing concrete surface beds.	m ²	75	
4	One brick walls in fire walls internally built onto existing concrete surface beds.	m ²	379	
5	One brick walls in fire walls internally built partly onto existing concrete upstand beam.	m ²	167	
<u>BRICKWORK SUNDRIES</u>				
<u>Sundries</u>				
6	Forming toothings and bonding new brickwork to existing	m ²	9	
7	Bag outer face of inner skin of brickwork and apply two coats bituminous paint	m ²	7	
<u>Joint forming material in movement joints</u>				
8	12mm Bitumen impregnated fibre board built in vertically between brick skins	m ²	49	
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		Unit	Quantity	Rate	Amount
	<u>Brickwork reinforcement</u>				
9	75mm Wide reinforcement built in horizontally	m	177		
10	150mm Wide reinforcement built in horizontally	m	2 521		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
11	30 x 1,6mm Wall tie 500mm long with one end shot pinned to brickwork/concrete and other end built into brickwork	No	230		
12	30 x 1,6mm Wall tie 500mm long with one end built into brickwork and other end shot fixed to steel column	No	461		
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
13	110 x 70mm Lintels in lengths not exceeding 3m	m	12		
14	110 x 70mm Lintels in lengths exceeding 3m not exceeding 4,5m	m	7		
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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 5</u> <u>WATERPROOFING</u> <u>PREAMBLES</u> <p>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</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>Waterproofing:</u> <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> <u>Preparation of substrata:</u> <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> <u>DAMPPROOFING OF WALLS AND FLOORS</u> <u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u> 1 In walls m ² 36 <u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u> 2 Under surface beds m ² 327 <div>Carried to Collection</div> <div>R</div> <div>Section No. 2</div> <div>Bill No. 5</div> <div>Waterproofing</div>				
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		Unit	Quantity	Rate	Amount
	<u>Two coats bitumen emulsion waterproof coating</u>				
3	On bagged brick walls	m ²	7		
	<u>WATERPROOFING TO ROOFS, FLOORS BASEMENTS, ETC</u>				
	<u>One layer Derbigum CG4 waterproofing membrane sealed by means of 'torchfusion' with 100mm side laps and 150mm end laps to inside of retaining walls to receive drainage layer</u>				
4	On vertical sides of concrete retaining walls	m ²	98		
	<u>Geofabrics Flownet or equally approved lightweight subsoil drainage net system:</u>				
5	Vertically behind concrete retaining walls	m ²	98		
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>				
	<u>Sikadur 42ZA epoxy sealant in filling to the saw cut joints in strict accordance with the Manufacturers instructions</u>				
6	8 x 40mm In saw cut joints in floors	m	110		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
7	10 x 10mm In expansion joints in floors, aprons,etc, including raking out expansion joint filler as necessary	m	110		
8	4 x 10mm In saw cut joints in floors.	m	20		
9	12 x 12mm In vertical expansion joints including raking out expansion joint filler as necessary. (Provisional).	m	150		
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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 6</u> <u>ROOF COVERINGS</u> <u>PREAMBLES</u> <p>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</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>PROFILED METAL SHEETING AND ACCESSORIES</u> <u>Notes:</u> <p>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.</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> <u>Erection, handling and storage:</u> <p>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.</p> <p>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.</p>				
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	Unit	Quantity	Rate	Amount
<p>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.</p> <p>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.</p> <p><u>Cleaning, etc:</u></p> <p>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.</p> <p>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.</p> <p><u>ZIP-TEK 420 SHEETING</u></p> <p><u>Profile:</u></p> <p>The profile is roll-formed from certified material complying Aluminium 3004. The profile shall have a male and female upstand with an upstanding 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.</p> <p><u>Flashing:</u></p> <p>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.</p>				
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	Unit	Quantity	Rate	Amount
<u>0,8mm Thick ' Hualamin 3004 Aluminium ZIP-TEK 420'</u> <u>Aluminium sheeting and accessories in single</u> <u>lengths with Stucco embossed PVDF finish (Colour</u> <u>Metallic Silver) on external face and standard</u> <u>backing coat on internal face and accessories</u> <u>concealed fixed to steel purlins or rails, with 'Zip-</u> <u>Tek' Aluminium Halts fixed with stainless steel</u> <u>self-tapping screws in strict accordance with the</u> <u>Manufacturers instructions:</u>				
1	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps	m ²	360	
2	Gable flashing 462mm girth	m	15	
3	Gutter flashing 462mm girth	m	26	
4	Valley gutter linings 800mm girth	m	22	
5	Headwall flashing 500mm girth	m	38	
6	Cover flashing 500mm girth	m	38	
7	Broad flute serrated closer including polybutton	m	36	
<u>0,8mm Thick ' Hualamin 3004 Aluminium ZIP-TEK 420'</u> <u>Aluminium sheeting and accessories in single</u> <u>lengths with Stucco embossed PVDF finish (Colour</u> <u>Azure Blue) on external face and standard backing</u> <u>coat on internal face and accessories concealed</u> <u>fixed to steel purlins or rails, with 'Zip-Tek'</u> <u>Aluminium Halts fixed with stainless steel self-</u> <u>tapping screws in strict accordance with the</u> <u>Manufacturers instructions:</u>				
8	Roof covering with pitch not exceeding 50 degrees including bitumen impregnated sealer strips at laps.	m ²	15	
9	Gable flashing 462mm girth	m	5	
10	Gutter flashing 462mm girth	m	5	
11	Headwall flashing 500mm girth	m	10	
12	Cover flashing 500mm girth	m	10	
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	Unit	Quantity	Rate	Amount
<u>0,8mm Thick 'Hulamin Aluminium BR7' Aluminium Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Metallic Silver) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturer's Instructions:</u>				
Note Side cladding fixed with broad flute facing out.				
13 Side cladding including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximatley 1600mm centres	m ²	230		
14 Closure piece 110mm girth	m	7		
15 Ditto, but 450mm girth	m	7		
16 Drip flashing 231mm girth	m	37		
17 Corner flashing 300mm girth	m	14		
18 Corner/jamb flashing 462mm girth	m	14		
19 Cap flashing 770mm girth	m	37		
20 Narrow flute serrated closer including polybutton	m	37		
21 Broad flute serrated closer including polybutton	m	37		
<u>0,8mm Thick 'Hulamin Aluminium BR7' Aluminium Sheeting And Accessories In Single Lengths With Stucco Embossed PVDF Colourtech Finish (Colour Azure Blue) On External Face And Standard Backing Coat On Internal Face And Accessories Concealed Fixed To Steel Purlins Or Rails, With 'Ziptech' Aluminium Halts Fixed With Stainless Steel Self Tapping Screws In Strict Accordance With The Manufacturer's Instructions:</u>				
Note Side cladding fixed with broad flute facing out				
22 Side cladding fixed diagonally on elevation including bitumen impregnated sealer strips to side laps and 'Cladseal 300' tape to cladding rails at approximatley 1600mm centres	m ²	23		
23 Closure piece 110mm girth	m	2		
24 Ditto, but 450mm girth	m	2		
25 Drip flashing 231mm girth	m	4		
26 Corner flashing 300mm girth	m	2		
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		Unit	Quantity	Rate	Amount
27	Corner/jamb flashing 462mm girth	m	2		
28	Cap flashing 770mm girth	m	4		
29	Corner trim 575mm girth	m	7		
30	U-flashing 355mm girth	m	5		
	Sundries:				
31	3mm Aluminium top hat	m	37		
32	3mm Aluminium unequal leg 240mm girth	m	5		
33	Cut and fit side cladding around steel I-beam	No	4		
34	38 x 38 x 3mm Aluminium angle	m	14		
35	76 x 76 x 3mm Aluminium angle	m	25		
	ROOF AND WALL INSULATION				
	'Isover Factorylite' or equally approved non combustibile 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				
36	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	m ²	375		
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1	m	134		
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		Unit	Quantity	Rate	Amount
<u>DOORS</u>					
<u>Wrought meranti doors</u>					
2	44mm Framed batten door size 813 x 2032mm formed of 44 x 108mm styles and top rail, 22 x 108mm middle ledge and braces and 22 x 220mm bottom ledge filled in with 22 x 69mm V-jointed one side boarding and including 1.60mm galvanised sheet iron plate fixed on one face of door	No	1		
<u>Solid Flush Doors Faced Both Sides With Commercial Veneer With Two Hardwood Edges Hung To Timber Or Steel Frames</u>					
3	44mm Door size 813 x 2032mm	No	2		
4	44mm Door size 813 x 2032mm hung on aluminium frames to partitions	No	3		
5	44mm Double door in equal leaves size 1100 x 2032mm with rebated meeting styles, hung on aluminium frames to partitions	No	2		
6	Extra for forming 450 x 300mm opening for and including natural aluminium louvre unit and frame	No	7		
<u>FRAMED FRAMES ETC</u>					
<u>Wrought meranti</u>					
7	70 x 108mm Rebated frame bolted to steel support (elsewhere measured)	m	5		
8	70 x 108mm Rebated frame bolted to brickwork	m	20		
<u>BEADS, ARCHITRAVES, ETC</u>					
<u>Wrought meranti</u>					
9	19mm Quadrant beads	m	41		
10	38 x 50mm Rebated, splayed and grooved weather boards fixed in and including grooves in doors	m	1		
<u>EAVES, VERGES, ETC</u>					
<u>Medium density plain fibre-cement fascias and barge boards</u>					
11	12 x 300mm Fascias and barge boards, including aluminium H-profile jointing strips	m	15		
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		Unit	Quantity	Rate	Amount
<u>ROOF BOARDING</u>					
<u>SABS Approved Shutterboard</u>					
12	Mezzanine roof boarding of 1 layer 22mm SABS approved shutterboard/plywood set out from centre of room in both directions and fixed to 250x75x20x3,0mm thick galvanised cold-formed lipped channels at 600mm centres (elsewhere measured), including sealing all joints with clear silicone sealant to provide a dust free ceiling void.	m ²	140		
<u>FLOORS</u>					
<u>SABS Approved Shutterboard</u>					
13	Mezzanine flooring of 2 layers 38mm SABS approved shutterboard/plywood fixed to 150x65x20x2,5mm thick galvanised cold-formed lipped channels at 600mm centres (elsewhere measured).	m ²	140		
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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 8</u> <u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<u>PREAMBLES</u> <p>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</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>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as bolted the bolts have been given.</p> <p>Ceiling boards must be stacked on a level surface in a dry place on a timber platform. Boards must be carried on edge.</p> <p>Skimmed ceilings must be plastered the same day that the 'Rhinoboard' has been erected.</p> <p>Electrical light fittings, diffusers, panels, etc. generally are lay-in units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof).</p>				
<u>Ceilings:</u> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p>				
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	Unit	Quantity	Rate	Amount
<u>Bulkheads:</u> Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features. Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings.				
<u>Steel components:</u> All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.				
<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u> <u>'Aerolite' or equally approved insulation with a Rval of 2.88m3 K/W laid over ceiling grid</u>				
1	m ²	249		
<u>Isoboard high density 32-36kg/m3 rigid extruded polystyrene 100% closed cell insulation board of 30mm thickness and 600mm width, tack fixed with recommended adhesive at 200mm intervals to timber/steel branderling installed at maximum 700mm centres transversely to truss/beams and edge fixed with concealed ceiling clips screwed/pop-riveted to timber/steel branderling. Boards to be secured to perimeter branderling with drywall screws and washers at 300mm centres.</u>				
2	m ²	110		
<u>SUSPENDED CEILINGS</u> <u>600 x 600 x 12.5mm Thick Donn Gyprex White Vinylclad Gypsumboard Ceiling Panels on White Aluminium Pre-Painted Exposed Tee Suspension System at 600mm centres, Including main and cross tees, and fixed with 25x25mm galvanised mild steel hangers to 50x75mm treated timber battens, etc.</u>				
3	m ²	249		
<u>Cornices, perimeter trims, etc. to suspended ceilings</u>				
4	m	183		
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	Unit	Quantity	Rate	Amount
<u>FIXED PARTITIONS</u>				
Partitions consisting of 63,5mm Ultra Drywall steel studs inserted at 600mm centres into 63,5mm Ultrasteel Drywall steel track at top and bottom clad on both sides as described, including additional studs as necessary at abutments, ends, etc. Boards shall be fixed in strict accordance with the manufacturer's instructions and all joints shall be taped and jointed				
Unless otherwise described rates for partitions shall be deemed to include for standard flat section aluminium skirtings on both sides.				
Wall paper and/or paint and varnish finishes are given elsewhere.				
<u>Gypwall Classic 63/F30S42 or other Approved Partitioning System with 63.5mm Steel Studs and covered on both sides with 12.5mm Rhinoboard (skirtings elsewhere measured)</u>				
5	m	52		
Partitioning 3500mm high on timber mezzanine floor with bottom track plugged and top track fixed to suspended ceiling tee				
6	m	24		
Extra over partitioning 3,5m high for additional outer layer of dry wall sheeting extended 580mm downwards to conceal GMS beam, including additional studs, etc.				
7	No	7		
Extra over partition 3.5m high for vertical abutment.				
8	No	2		
Extra over partition 3.5m high for corner.				
9	No	4		
Extra over partition 3.5m high for T-intersection.				
10	No	1		
Extra over partition 3.5m high for fair end.				
11	m	24		
Extra for PAR 32 x 69mm SAP Timber edge trim with routed edges to later detail, fixed to joint at partitioning and face of brickwall				
<u>Extra over partition for natural anodised aluminium door frame including one and a half pairs of 100mm aluminium butt hinges including additional studding, trimming, (door and ironmongery elsewhere measured)</u>				
12	No	3		
For single door size 813 x 2032mm high				
13	No	2		
For double door size 1200 x 2032mm high				
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		Unit	Quantity	Rate	Amount
	<u>Extra On 'Gypwall Classic 63/F30S42' Partition For Forming Openings For Windows, Viewing Panels, Doors, Etc. (By Others) Note: The Partitions Have Been Measured Through/Over These Openings. Allowance Must Be Made For A Plain Opening Framed On All Sides With Studs</u>				
14	Opening for view window (by others) size 900 x 2100mm	No	1		
15	Opening for view window (by others) size 900 x 1200mm	No	1		
16	Opening for view window (by others) size 2400 x 1200mm	No	2		
17	Opening for view window (by others) size 2000 x 1500mm	No	4		
18	Opening for double aluminium door and frame (by others) size 1500 x 2100mm	No	1		
	<u>FIRE WALLING</u>				
	<u>119mm Thick 'Rhino Gypsum Two Hour Fire Rated' Drywall Partitioning Firewall System with 63mm steel studs at 400mm centres covered on both sides with one layer of 12.5mm Firestop board and one layer of 15mm Firestop board with taped and skimmed joints on external face, fixed with staggered joints at 220mm centres all in strict accordance with the manufacturers instructions</u>				
19	Firewall 2.70m high built off top of 4,50m high one brick wall	m	85		
20	Extra over for vertical abutment	No	4		
21	Extra over for cutting and fitting around steel angle irons	No	45		
22	Extra for cutting and fitting around steel truss	No	15		
23	L-shaped on section firewall size approximately 800mm high x 800mm wide and boxed around box gutter (box gutter fixed at a height of approximately 8m above floor level)	m	60		
24	Extra for 25 x 25mm Aluminium angle to edge of firewall partitioning boxing.	m	180		
25	Extra for PAR 16 x 44mm SAP Timber edge trim fixed to joint at partitioning and top of brickwall	m	85		
26	Extra for PAR 32 x 69mm SAP Timber edge trim with routed edges to later detail, fixed to joint at partitioning and face of brickwall	m	85		
27	Firewall 4.50m high built off top of 3.58m high brick wall	m	72		
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		Unit	Quantity	Rate	Amount
28	Extra over for vertical abutment	No	4		
29	Item Extra over for L or T-intersection	No	3		
30	Extra over for cutting and fitting around steel angle irons	No	33		
31	Extra for cutting and fitting around steel truss	No	11		
32	L-shaped on section firewall size approximately 1600mm high x 800mm wide and boxed around box gutter (box gutter fixed at a height of approximately 8m above floor level)	m	60		
33	Extra for 25 x 25mm Aluminium angle to edge of firewall partitioning boxing.	m	192		
34	Extra for PAR 16 x 44mm SAP Timber edge trim fixed to joint at partitioning and top of brickwall	m	72		
35	Extra for PAR 32 x 69mm SAP Timber edge trim with routed edges to later detail, fixed to joint at partitioning and face of brickwall	m	72		
36	Firewall 5.00m high built off top of 3.58m high brick wall	m	12		
37	Extra over for vertical abutment	No	2		
38	Item Extra over for L or T-intersection	No	1		
39	Extra over for cutting and fitting around steel angle irons	No	18		
40	Extra for cutting and fitting around steel truss	No	4		
41	Raking firewall approximately 3000mm high on rake to underside roof sheeting (raking partitioning fixed at a height of approximately 8,5m above floor level)	m	12		
42	Extra for PAR 16 x 44mm SAP Timber edge trim fixed to joint at partitioning and top of brickwall	m	12		
43	Extra for PAR 32 x 69mm SAP Timber edge trim with routed edges to later detail, fixed to joint at partitioning and face of brickwall	m	12		
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1	m ²	48		
2	m ²	129		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 10</u> <u>STRUCTURAL STEELWORK</u> <u>PREAMBLES</u> <p>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</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>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of columns and beams shall be deemed to include flat section base, top, bearer and connection plates</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> <p>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.</p> <p>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.</p>				
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	Unit	Quantity	Rate	Amount
<p>All structural steelwork inclusive of bolts, nuts, washers, plates, connections, etc., other than purlins & girts to be hot dipped galvanised in accordance with SANS 121 or ISO 1461 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.</p> <p>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 an 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</p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>GALVANISED STEEL COLUMNS AND BEAMS</u></p> <p><u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u></p>				
1	203 x 203mm x 46kg/m H-section columns including 250x250x10mm base plate with 4 no holes for M20 holding down anchors.	Tonnes	1.33	
<p><u>Welded beams in single lengths with flat bearer and connection plates, bolted to steel</u></p>				
2	254 x 146mm x 31kg/m I-section roof beams/rafters	Tonnes	0.40	
3	Custom made roof beams/rafters cut from 254 x 146mm x 31kg/m I-sections, to match existing.	Tonnes	0.16	
4	254 x 146mm x 38kg/m I-section beams	Tonnes	0.55	
5	356 x 171mm x 51kg/m I-section beams	Tonnes	2.24	
6	406 x 140mm x 46kg/m I-section roof beams/rafters	Tonnes	2.30	
7	457 x 191mm x 67kg/m I-section roof beams/girder rafter	Tonnes	1.41	
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		Unit	Quantity	Rate	Amount
<u>Welded castellated beams in single lengths to match existing with flat bearer, gusset and connection plates, bolted to steel</u>					
8	609 x 140mm x 46kg/m i-section castellated beams	Tonnes	0.62		
<u>GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC</u>					
<u>Purlins and girts, bolted to steel</u>					
9	150 x 65 x 20 x 2,5mm Thick cold-formed lipped channels bolted to mezzanine floor beams at 600mm centres.	Tonnes	1.29		
10	150 x 75 x 20 x 2,5mm Thick cold-formed lipped channels in purlins bolted to steel rafter beams at equal centres.	Tonnes	1.49		
11	150 x 75 x 20 x 2,5mm Thick cold-formed lipped channels in girts bolted to steel at equal centres, to receive side cladding.	Tonnes	0.88		
12	250 x 75 x 20 x 3,0mm Thick cold-formed lipped channels at 600mm centres, with 200 x 50 x 6mm face plates to both ends and lugs at equal centres, fixed to steel dry wall frames.	Tonnes	2.38		
13	50 x 50 x 3,0mm Thick Angle knee bracing.	Tonnes	0.09		
14	60 x 60 x 5,0mm Thick Angle knee bracing.	Tonnes	0.10		
15	80 x 80 x 6,0mm Thick Angle cross bracing.	Tonnes	0.40		
16	50 x 50 x 4,0mm Thick Angle sag bars.	Tonnes	0.11		
<u>BOLTS, FASTENERS, ETC</u>					
<u>Bolts</u>					
17	High tensile bolts (class 8.8)	Tonnes	0.80		
<u>Anchors</u>					
18	20mm Diameter chemical anchor to concrete	No	12		
19	M20mm Diameter L-shaped threaded anchor bolt 500mm girth embedded in top of concrete	No	16		
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	Tonnes	1		
<u>GALVANISED STEEL STAIRS</u> <u>The following in galvanised welded single flight stairs with 'Andrew Mentis' balustrades or equally approved, 11 180 x 1500mm on plan x 3 525mm high overall to Mezzanine floor level.</u> 2 6mm Vastrap mild steel chequer plate on continuous stair treads twice bent with 25mm turnup and turn down on sides for full length of tread.				
	m ²	9		
3 6mm Vastrap mild steel chequer plate on continuous stair landings twice bent with 25mm turnup and turn down on sides for full width of landings.	m ²	10		
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4	75x75x3,5mm SHS posts, including 200x200x10mm thick base plate with 4 no holes for M20 holding down anchors.	Kg	63		
5	200x75mm x 25kg PFC stringers	Kg	349		
6	Extra over for ramp or knee	No	4		
7	200x10mm Flat bar	Kg	196		
8	Extra over for ramp or knee	No	4		
9	50x6mm Flat bar stiffeners	Kg	276		
10	Hole through 6mm steel for bolt	No	192		
11	Hole through 10mm steel for bolt	No	64		
12	M12 Gr 8.8 Masonry bolts	No	64		
13	M12 Gr 8.8 bolts	No	64		
14	20mm Diameter chemical anchor bolts to concrete	No	12		
15	'Mentis' type or equally approved galvanised mild steel inter-link welded handrail system MT90 tubular stanchions 42.9mm outside diameter at 1m - 1,5m centres with ball type connections for top and bottom/middle continuous handrails and bottom rails (elsewhere measured), including 10mm baseplate bolted to steel stringer beams.	Kg	37		
16	'Mentis' type or equally approved galvanised mild steel inter-link welded continuous top and middle/bottom tubular handrails 34.1mm outside diameter and 2.5mm thick to suit MT90 stanchions with ball type connections (elsewhere measured), partly on rake.	Kg	77		
17	Extra for 90 degree 500mm long straight closure end.	No	1		
18	Extra for angle closure bend.	No	6		
19	Extra for 45 degree 500mm angle closure end.	No	1		
<u>GALVANISED STEEL MINOR WORK</u>					
<u>Corner protectors to concrete ramps</u>					
20	70 x 70 x 6mm Angle section corner protectors in varying lengths with flat section bent lugs welded on at equal centres, including embedding in concrete to ramps.	Kg	128		
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		Unit	Quantity	Rate	Amount
<u>STEEL ROLLER SHUTTERS ETC</u>					
<u>Re-installation of galvanised steel roller shutters, elsewhere removed and set-aside, fixed to steel framework structure and side cladding:</u>					
21	Previously removed and set-aside electrically operated slatted roller shutter for 4000 x 5000mm high opening, including framework and electrical connection and commissioning (electrical isolator elsewhere), set up and built into new position.	No	1		
<u>GUARDRAILS, ETC.</u>					
<u>'Armco' Barrier Guardrails, etc or equally approved:</u>					
22	Guardrail 900mm high overall consisting of 200mm diameter creosote treated timber posts spaced at 3810mm centres and fixed to concrete hard stands.surface beds (elsewhere measured) by means of 219mm diameter x 10mm thick galvanised steel tube with M16 x 250mm Armco or equally approved through bolt, two (No.2) 10mm diameter weepholes and 359 x 359 x 10mm thick base plate bolted to existing concrete hardstands by means of four (No.4) M16 x 170mm diameter anchor bolts. Guardrail comprising W-shaped galvanised steel guardrail with pre-drilled bolt holes fixed to poles with and including 16mm diameter x 330mm long high yield Armco or equally approved stress bolt on and including 360 x 115 x 115mm CCA treated pine spacer block, complete including all necessary concrete core drilling etc.	m	13		
23	Extra over for bullnose to Armco barriers.	No	2		
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	Unit	Quantity	Rate	Amount
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.				
<u>Method</u>				
The method to be used shall be either the monolithic method or the bonded method				
<u>Mix</u>				
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.				
<u>Panels</u>				
Granolithic shall be laid in panels not exceeding 14m\`b2 for monolithic finishes, not exceeding 9,5m\`b2 for bonded finishes and not exceeding 6m\`b2 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				
<u>Laying</u>				
Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels				
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				
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				
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	Unit	Quantity	Rate	Amount
<u>Curing, seasoning and protection</u>				
Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.				
<u>Colour</u>				
Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.				
<u>SCREEDS</u>				
<u>Cement screeds on concrete</u>				
1 30mm Thick on floors and landings	m ²	13		
2 30mm Thick on treads and risers of steps	m ²	2		
<u>GRANOLITHIC</u>				
<u>Untinted granolithic, on concrete</u>				
3 30mm Thick on floors and landings	m ²	301		
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork and/or concrete:</u>				
4 On walls	m ²	188		
5 On fire walls	m ²	980		
6 On retaining/bund walls	m ²	15		
7 On narrow widths	m ²	13		
8 On narrow widths to fire walls	m ²	37		
<u>EXTERNAL PLASTER</u>				
<u>Cement plaster on brickwork and/or concrete:</u>				
9 On retaining walls	m ²	71		
10 On narrow widths	m ²	4		
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
<u>Dividing strips</u>				
11 3 x 57mm Flat section brass dividing strips between different floor finishes at external doors.(Provisional)	m	1		
<u>Edge strips</u>				
12 Mentex Plaster Stop galvanised steel edge strips fixed to brickwork or concrete	m	53		
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	Unit	Quantity	Rate	Amount
<u>Corner protectors</u>				
13 Mentex Angle Bead galvanised steel corner protectors fixed to brickwork or concrete	m	53		
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1	On walls	m ²	33	
2	On walls in splashbacks	m ²	5	
3	On narrow widths	m ²	1	
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	Unit	Quantity	Rate	Amount
<u>SUNDRIES</u>				
<u>M Trim or equally approved:</u>				
4 M Trim or equally approved stainless steel (grade 304) wall tile trim as Kirk Marketing SSE120	m	46		
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Tiling

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BUILDING WORKS</u></p> <p><u>BILL NO. 14</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <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/Engineer.</p> <p>Polycop' polypropylene pipes:</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</p> <p>All pipe diameters are nominal external.</p> <p><u>uPVC pressure pipes and fittings:</u></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>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.</p>				
Carried to Collection			R	
<p>Section No. 2</p> <p>Bill No. 14</p> <p>Plumbing And Drainage</p>				

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	Unit	Quantity	Rate	Amount
<p><u>Copper pipes:</u></p> <p>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.</p> <p><u>Fixing :</u></p> <p>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</p> <p>Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories</p> <p>Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer</p> <p><u>Chasing :</u></p> <p>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.</p> <p><u>Reducing fittings:</u></p> <p>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.</p> <p><u>Wire gratings:</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><u>Exposed concrete surfaces:</u></p> <p>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.</p>				
Carried to Collection				
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	Unit	Quantity	Rate	Amount
<p><u>Excavations:</u></p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>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).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Flush pans:</u></p> <p>Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p> <p>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.</p> <p><u>Waste unions:</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>General :</u></p> <p>All screw and bolt fixings for sanitary ware are to be stainless steel or chromium plate on brass.</p> <p>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.</p>				
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	Unit	Quantity	Rate	Amount
<u>SUBSOIL DRAINAGE</u>				
<u>Subsoil drainage:</u>				
1 Composite sub soil drain size 300 x 700mm overall comprising 110mm perforated PVC geopipe laid inside 13mm washed concrete stone filling and entire drain wrapped in U2 Bidim and Kaytech A2, laid to bottom of filling area under floors including any excavations, carting away, etc.	m	76		
<u>SANITARY FITTINGS</u>				
<u>'Vaal Sanitaryware' vitreous china wash hand basins and pedestals:</u>				
2 Wash hand basin as "Vaal Lotus VAA-702603WH" or other approved with pedestal as "Vaal VAA-715222WH" complete with waste union, overflow tube attachment, plug and chain, brackets, etc (taps elsewhere measured)	No	1		
3 Wash hand basin as "Vaal Hibiscus VAA-702303WH" or other approved with pedestal as "Vaal VAA-715222WH" complete with waste union, overflow tube attachment, plug and chain, brackets, etc (taps elsewhere measured)	No	1		
<u>'Vaal Sanitaryware' vitreous china WC suites:</u>				
4 WC suite comprising pan as "Vaal Afsan VAA-750600WH" and approved double flap seat complete (Flushmaster valve elsewhere measured)	No	1		
5 Close couple WC suite comprising pan as "Vaal Entice VAA-772663WH", approved double flap seat", matching 6 litre cistern with pushbutton top duel flush back inlet, etc complete.	No	1		
<u>Franke' grade 304 (18/10) 1.2mm stainless steel sinks:</u>				
6 Stainless steel double bowl sink unit as "Frankie Quinline FRA-1990019" or other approved size 1360 x 500mm complete with waste union, plug, chain, etc and fixing on top of timber fitting (elsewhere measured)	No	3		
<u>WASTE UNIONS ETC</u>				
<u>Cobra Watertech' waste unions etc:</u>				
7 32mm Chrome plated pop-up basin waste assembly (code 380).	No	2		
8 38mm Chrome plated heavy pattern slotted sink/washtrough waste union with flange, shank, slotted with back nut plug, chain and stay.	No	6		
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		Unit	Quantity	Rate	Amount
<u>TRAPS ETC</u>					
<u>Traps, etc.:</u>					
9	32 x 40mm Chromium plated bottle trap as Cobra COB-385/35 including joint to pipe and outlet of fitting	No	1		
10	40 x 40mm Ditto, as Cobra COB-365/40	No	1		
11	40mm Brass combination sink "P" trap including joint to pipe and outlet of fitting	No	3		
<u>TAPS, VALVES, ETC</u>					
<u>Stopcocks, Stoptaps, Gate valves, Check valves, Strainers, etc.:</u>					
12	15mm Chromium plated angle regulating valve with 350mm flexi tube as Cobra 832/350 including joints to pipes	No	2		
13	15mm Brass stopcock including joints to pipes	No	2		
14	22mm Ditto	No	2		
15	15mm Chromium plated stopcock including joints to pipes	No	2		
16	15mm Chromium plated sink mixer as "Cobra COB-PA-870" or other approved including joints to pipes	No	3		
17	15mm Chromium plated basin mixer as "Cobra COB-PA-851" or other approved including joints to pipes	No	2		
18	22mm Brass pressure control valve including joints to pipes	No	1		
19	22mm Brass relief valve including joints to pipes	No	2		
<u>Toilet and urinal flushvalves and built in cisterns:</u>					
20	Chromium plated flushvalve and spargepipe as Cobra COB-FJ2-100 including joints to pipes	No	1		
21	Cobra FJ8.102 CP Flushmaster Junior toilet flush valve	No	1		
<u>Pressure reducing valves, vacuum breakers, etc.:</u>					
22	22mm Brass vacuum breaker including joint to pipe	No	1		
23	22mm 600kPa Mono pressure control valve (code KH3.116).	No	1		
24	22mm Vacuum breaker (code KHN4.200CX).	No	2		
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		Unit	Quantity	Rate	Amount
<u>SANITARY PLUMBING</u>					
<u>UPVC Pipes And Fittings</u>					
25	40mm pipes	m	45		
26	50mm Pipes	m	50		
27	110mm Pipes laid to falls above floor slab.	m	25		
28	40mm Pipes chased into walls including making good to plaster	m	15		
29	50mm Pipes chased into walls including making good to plaster	m	15		
<u>Extra For:</u>					
30	50mm Straight reducer	No	4		
31	110mm Ditto	No	2		
32	110mm Pan connector	No	2		
33	40mm Bend	No	7		
34	50mm Bend	No	6		
35	110mm Bend	No	3		
36	40mm Inspection eye bend	No	7		
37	50mm Ditto	No	5		
38	110mm Ditto	No	2		
39	40mm Junction	No	2		
40	50mm Ditto	No	2		
41	110mm Ditto	No	1		
42	40mm Inspection eye junction	No	2		
43	50mm Ditto	No	2		
44	110mm Ditto	No	1		
45	50mm Inspection eye reducing junction	No	1		
46	110mm Ditto	No	1		
47	110 x 110 x 40mm Access reducing junction.	No	1		
48	110 x 110 x 50mm Access reducing double junction.	No	1		
49	110mm "GI two-way" vent valve	No	2		
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		Unit	Quantity	Rate	Amount
	Sundries				
50	Wire balloon grating in top of pipe not exceeding 100mm diameter.	No	1		
51	50mm UPVC vent valve	No	2		
52	110mm Ditto	No	1		
	TESTING				
	Testing :				
53	Testing waste pipe system, complete.	Item			
	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.				
	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:				
54	15mm Pipes.	m	140		
55	22mm Pipes.	m	80		
56	28mm Pipes.	m	40		
	Extra over class 2 copper pipes for capillary fittings:				
57	15mm Fittings	No	25		
58	22mm Fittings	No	15		
59	28mm Fittings	No	10		
	Extra over class 2 copper pipes for brass compression fittings:				
60	15mm Fittings	No	15		
61	22mm Fittings	No	8		
62	28mm Fittings	No	3		
	Testing				
63	Testing water pipe system	Item			
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		Unit	Quantity	Rate	Amount
<u>ELECTRIC WATER HEATERS</u>					
<u>Approved' Geysers (SABS 151:1992), to be compatible with heat pump installations, where required :</u>					
64	200 Litre 600KPa high pressure horizontal hot water geyser including fixing to wall and joints to pipes	No	1		
65	Saint Gobian Isover geyser blanket to suit 200 litre geyser	No	1		
66	Galvanised sheet iron tray to suit 200 litre geyser	No	1		
67	50mm UPVC overflow pipe	m	10		
68	Saint Gobian Isover insulation to 15mm pipe all in strict accordance with the manufacturers instructions	m	55		
69	22mm Ditto	m	65		
70	28mm Ditto	m	15		
<u>BUILDERS WORK IN CONNECTION WITH PLUMBING INSTALLATION</u>					
71	Cut hole through wall for pipe not exceeding 100mm diameter and make good	No	1		
72	Prepare surface and apply one undercoat and two coats gloss enamel paint to copper pipes not exceeding 300mm girth	m	50		
<u>FIRE APPLIANCES ETC</u>					
<u>'Chubb' or equally approved:</u>					
73	'Everyway' hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket, mounted to wall, complete.	No	1		
74	4,5kg DCP hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	4		
75	5kg Carbon dioxide CO2 hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	4		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 16</u>				
<u>PAINTWORK</u>				
<u>PREAMBLES</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>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>Paint:</u>				
All work to be executed in strict accordance with the Manufacturers specifications and instructions.				
Primers and first coats may be thinned in accordance with the paint specifications of the various paints to aid the absorption of the paint.				
All surfaces must be sound, clean and have a moisture content of less than 8% for walls generally and 3% for slabs/screeds etc.				
Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with a Merit' plaster primer thinned 10% with turpentine.				
<u>PAINTWORK ETC TO NEW WORK</u>				
<u>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 :</u>				
1 Internal plastered fire walls	m ²	980		
2 Internal plastered walls	m ²	150		
3 External plastered walls	m ²	71		
4 Drywall partitions	m ²	341		
5 Gypsum board firewalls	m ²	898		
6 Gypsum board firewalls and boxing in roof space between steel roof members	m ²	552		
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		Unit	Quantity	Rate	Amount
7	Internal plastered fire walls in narrow widths	m ²	37		
8	Internal plastered walls in narrow widths	m ²	10		
9	External plastered walls in narrow widths	m ²	4		
	<u>ON SMOOTH CONCRETE SURFACES</u>				
	<u>Specialist Floor Coating</u>				
	<u>Prepare Surface And Apply 4.5mm Thick Sikafloor-21N PurCem Polyurethane Floorcoating 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:</u>				
10	Existing power floated concrete floors including any necessary grinding, etc.	m ²	350		
11	Extra over last for cutting and sealing all necessary joints	m	155		
	<u>ON WOOD SURFACES</u>				
	<u>Prepare Surface And Apply One Coat Primer On:</u>				
12	Backs of frames not exceeding 300mm girth	m	10		
	<u>Prepare Surface and Apply One Coat Primer And Two Coats Dulux Pearlqlo Paint on:</u>				
13	Doors	m ²	33		
14	Door frames	m ²	5		
15	Skirting, rail, etc not exceeding 300mm girth	m	494		
	<u>ON NEW FIBRE-CEMENT BOARD SURFACES</u>				
	<u>Prepare Surface and Apply One Coat Primer And Two Coats Dulux Pearlqlo Paint on:</u>				
16	Fascias and barge boards including priming metal jointing strips	m ²	9		
	<u>ON EXISTING INTERNAL FLOATED PLASTER SURFACES</u>				
	<u>Prepare surfaces and apply Two coats 'Plascon Wall and All' (WAA 1) Pure Acrylic paint</u>				
17	Existing Internal Walls	m ²	510		
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		Unit	Quantity	Rate	Amount
<u>ON EXISTING WOOD SURFACES</u>					
<u>Prepare surfaces and apply One Coat Alkyd based Universal Undercoat and One Coat Dulux Pearl glo Enamel Paint on:</u>					
18	Existing Internal Doors	m ²	4		
19	Existing Internal Door frames, etc	m ²	1		
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SECTION NO 3

EXTERNAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 1</u> <u>SOIL DRAINAGE AND RETICULATION</u> <u>PREAMBLES</u> <p>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</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>uPVC pipes and fittings:</u> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <u>uPVC pressure pipes and fittings:</u> <p>All pipes 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>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.</p> <u>Exposed concrete surfaces:</u> <p>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.</p> <u>Excavations:</u> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p>				
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Soil Drainage And Reticulation				

	Unit	Quantity	Rate	Amount
<u>Laying, backfilling, bedding, etc of pipes:</u>				
Pipes shall be laid and bedded and trenches shall be carefully backfilled in cordance 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: SANS 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 SAB.				
<u>SEWER RETICULATION</u>				
<u>uPVC Class 34 pipes:</u>				
1 110mm Pipe laid in trenches not exceeding 1m deep, including couplings in the running length, laid to falls on a 100mm thick selected granular bedding material as per SABS 1200LB, including all necessary excavations, back filling with imported material and compacting to 93% Modified AASHTO density and all necessary risk of collapse and de-watering of trenches.	m	5		
2 Ditto, but exceeding 1m not exceeding 2m deep	m	3		
3 160mm Pipe laid in trenches exceeding 1m and not exceeding 2m deep, including couplings in the running length, laid to falls on a 100mm thick selected granular bedding material as per SABS 1200LB, including all necessary excavations, back filling and and compacting to 93% Modified AASHTO density and all necessary risk of collapse and de-watering of trenches.	m	40		
4 Ditto, but exceeding 3m not exceeding 4mm deep	m	6		
5 160mm Diameter UPVC pipes vertically or ramped to cleaning eyes in concrete encasing (elsewhere measured), etc.	m	5		
<u>Extra over uPVC Class 34 pipes for fittings:</u>				
6 110mm Bend	No	1		
7 160mm Bend	No	1		
8 110mm Access bend	No	1		
9 160mm Access bend	No	2		
10 110mm Access junction	No	1		
11 160mm Access junction	No	1		
12 110mm Access reducing junction	No	1		
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		Unit	Quantity	Rate	Amount
13	160mm Access reducing junction	No	1		
14	110mm Straight reducer	No	1		
15	160mm Straight reducer	No	1		
16	110mm End cap	No	1		
17	160mm End cap	No	1		
18	160 x 110mm Y-Junction	No	1		
19	160mm Y-Junction	No	1		
20	160mm Long radius bend	No	1		
	<u>Extra over uPVC Class 34 channels for fittings:</u>				
21	160mm Bend	No	1		
22	160mm Junction	No	1		
	<u>Manholes:</u>				
23	750mm Diameter manhole exceeding 2000mm and not exceeding 3000mm deep internally, the lower depth increased to 1000mm diameter internally and with and including 200mm thick reinforced concrete (25Mpa at 28 days in 19mm stone) cover slab projecting at 220mm beyond sides and with reinforced concrete (25Mpa at 28 days in 19mm stone) reducer slab.	No	1		
	<u>Gratings, covers, etc:</u>				
24	SABS 558 Type 2A manhole cover and modified frame	No	1		
	<u>Sundries:</u>				
25	150mm Cast Iron straight or skew rodding eye with ABC removable plate cover jointed to 160mm uPVC pipe and set in and including concrete (25Mpa) surround size 1000 x 1000 x 300mm thick with exposed surface trowelled smooth.	No	1		
26	Precast concrete (Class 15Mpa) block size 210 x 210 x 75mm thick finished smooth on top and four edges with letters "I.E" formed in top, set in ground over top of inspection fitting	No	1		
27	Precast concrete pipeline marker 750mm above ground level and 750mm below ground level built into and including 550 x 550 x 600mm deep concrete base including all necessary excavations, formwork, reinforcement, carting away surplus excavated material, backfilling, lettering, signs, etc.,	No	2		
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		Unit	Quantity	Rate	Amount
28	25Mpa Unreinforced concrete encasement to pipes and in thrust blocks in trenches at bends, tees, etc, including extra excavation, formwork, etc.	m ³	2		
29	Extra for saw cutting and breaking up and removing existing 30Mpa 200mm thick hardstand roadway for sewer trenches, including cart away, etc.	m ³	7		
30	Extra for patching and making good to 200mm thick 30Mpa hardstand roadway for sewer trenches, including, filling, mesh reinforcing and floating to match existing, etc.	m ³	7		
31	Cutting into sides of existing manhole for and connecting 160mm diameter uPVC pipe including inserting 110mm channel junction and making good concrete benching and manhole sides	No	1		
32	Excavate for, locate and cut into existing 160mm pipe exceeding 1m and not exceeding 2m deep, and insert end cap to one end (remainder of pipe will become redundant), backfill, etc	No	1		
<u>Testing:</u>					
33	Testing sewer pipe system	Item			
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- Principal Contract
Linde Wiemann RSA(Pty)Ltd

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>EXTERNAL WORKS</u></p> <p><u>BILL NO. 2</u></p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <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> <p>All Stormwater Drainage shall be done in accordance with the SANS 1200 DB, LB and LE specifications.</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>Exposed concrete surfaces:</u></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 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 SAB.</p>				
Carried to Collection			R	
Section No. 3				
Bill No. 2				
Stormwater Drainage				

	Unit	Quantity	Rate	Amount
<u>STORMWATER DRAINAGE</u>				
<u>Reinforced precast concrete SABS (Class 100D) pipes including spigot socket joints and short lengths to falls in ground, including excavating, imported backfilling, compacting to 93% modified AASHTO dry density and including all necessary risk of collapse, working space, carting away of surplus material, dewatering of trenches, etc.:</u>				
1 375mm Diameter pipes laid in and including trenches exceeding 1m not exceeding 2m deep including 100mm selected granular material bedding below and 300mm selected fill material above pipe crown.	m	6		
<u>Sumps, catchpits, inspection chambers, manholes etc (gratings and covers elsewhere):</u>				
2 Excavate for and build stormwater grid inlet catchpit Type A size 900mm x 900mm x exceeding 1000mm deep not exceeding 2000mm deep internally with and including 600mm x 600mm square dished grating and frame complete including all excavations, formwork, reinforcement, backfilling, compaction, etc. (all as per BVI Engineers drawing No. 33722-CIV-BW2-2)	No	1		
<u>Sundries:</u>				
3 Excavate for, locate and cut into sides of existing catchpit/manhole for and connecting 375mm diameter pipe including making good concrete benching and manhole sides.	No	1		
4 Extra for saw cutting and breaking up and removing existing 30Mpa 200mm thick hardstand roadway for stormwater trenches, including cart away, etc.	m ³	1		
5 Extra for patching and making good to 200mm thick 30Mpa hardstand roadway for stormwater trenches, including filling, mesh reinforcing and floating to match existing, etc.	m ³	1		
6 25Mpa Unreinforced concrete capping cover to existing stormwater drain/catchpit, etc, including all excavations, formwork, etc.	m ³	1		
<u>Testing:</u>				
7 Testing stormwater drainage pipe system.	Item			
Carried to Collection			R	
Section No. 3 Bill No. 2 Stormwater Drainage				

- Principal Contract
Linde Wiemann RSA(Pty)Ltd
Amount

SECTION NO. 3
EXTERNAL WORKS
BILL NO. 2
STORMWATER DRAINAGE
COLLECTION

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Section No. 3
Bill No. 2
Stormwater Drainage

Carried To Section Summary

R

- Principal Contract
Linde Wiemann RSA(Pty)Ltd
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SECTION NO. 3

EXTERNAL WORKS

SECTION SUMMARY

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1	SOIL DRAINAGE AND RETICULATION	92		
2	STORMWATER DRAINAGE	95		
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Section No. 3 SECTION SUMMARY				

SECTION NO 4

PROVISIONAL SUMS AND ALLOWANCES

- Principal Contract
Linde Wiemann RSA(Pty)Ltd

Amount

SECTION NO. 4

PROVISIONAL SUMS AND ALLOWANCES

PROVISIONAL SUMS

PREAMBLES

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

General

Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement/building contract and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances

Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned. Provisional sums are for material and equipment supplied and installed complete by firms of specialists.

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

Profit on Nominated/Selected Subcontractors

Where stated, the contractor may allow for profit if required

General Attendance on Nominated/Selected Subcontractors

The item 'attendance' which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement

Builder's Work

Builder's work in connection with specialist services is given elsewhere in these bills of quantities

PROVISIONAL SUMS AND ALLOWANCES

Electrical Installation

1 Provide the sum of R 275 000-00 (Two Hundred and Seventy Five Thousand Rand) for Electrical Installation, executed complete.

Item 275 000 00

2 Allow for profit

Item

3 Allow for attendance

Item

Air Conditioning and Ventilation Installation

4 Provide the sum of R 310 000-00 (Three Hundred and Ten Thousand Rand) for Air-Conditioning and Ventilation Installation, executed complete.

Item 310 000 00

Carried To Section Summary

R

Section No. 4

Bill No. 1

Provisional Sums

- Principal Contract
Linde Wiemann RSA(Pty)Ltd

		Amount	
5	Allow for profit	Item	
6	Allow for attendance	Item	
<u>Early Warning Detection and Alarm Installation</u>			
7	Provide the sum of R 155 000-00 (One Hundred and Fifty Five Thousand Rand) for Early Warning Detection and Alarm Installation, executed complete.	Item	155 000 00
8	Allow for profit	Item	
9	Allow for attendance	Item	
<u>Fire Protection Installation Including Sprinkler and Fire Appliance Installations</u>			
10	Provide the sum of R 405 000-00 (Four Hundred and Five Thousand Rand) for Fire Protection Installation Including Sprinkler and Fire Appliance Installations, executed complete.	Item	405 000 00
11	Allow for profit	Item	
12	Allow for attendance	Item	
<u>Joinery Installation</u>			
13	Provide the sum of R100 000-00 (One Hundred Thousand Rand) for Joinery Installations, executed complete.	Item	100 000 00
14	Allow for profit	Item	
15	Allow for attendance	Item	
<u>Aluminium Windows, Louvres, Doors, Viewing Panels, Etc</u>			
16	Provide the sum of R100 000-00 (One Hundred Thousand Rand) for Aluminium Windows, Louvres, Doors, Viewing Panels, Etc, executed complete.	Item	100 000 00
17	Allow for profit	Item	
18	Allow for attendance	Item	
<u>Statutory Signage</u>			
19	Provide the sum of R20 000-00 (Twenty Thousand Rand) for Statutory Signage, executed complete.	Item	20 000 00
20	Allow for profit	Item	
21	Allow for attendance	Item	
<u>Roller Shutter Doors</u>			
22	Provide the sum of R50 000-00 (Fifty Thousand Rand) for Roller Shutter Doors, executed complete.	Item	50 000 00
Carried To Section Summary		R	
Section No. 4			
Bill No. 1			
Provisional Sums			

- Principal Contract
Linde Wiemann RSA(Pty)Ltd

		Amount	
23	Allow for profit	Item	
24	Allow for attendance	Item	
<u>Internal Fencing and Gates</u>			
25	Provide the sum of R 80 000-00 (Eighty Thousand Rand) for Internal Fencing and Gates to New Store Areas, executed complete.	Item	80 000 00
26	Allow for profit	Item	
27	Allow for attendance	Item	
<u>Fibreglass Gutters and Geberit Pluvia Rainwater System</u>			
28	Provide the sum of R85 000-00 (Eighty Five Thousand Rand) for Fibreglass Gutters And Geberit Pluvia Rainwater System, executed complete.	Item	85 000 00
29	Allow for profit	Item	
30	Allow for attendance	Item	
<u>Budgetary Allowances</u>			
<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>			
31	Provide the budgetary allowance of R30 000-00 (Thirty Thousand Rand) for Builders Work for Electrical Installations.	Item	30 000 00
32	Provide the budgetary allowance of R25 000-00 (Twenty Five Thousand Rand) for Builders Work for Mechanical Installations.	Item	25 000 00
33	Provide the budgetary allowance of R15 000-00 (Fifteen Thousand Rand) for Taking Down Existing Internal Fences and Cages in BW3 and Relocating Fences and Cages to New Position in BW2, including making good to existing floor finishes.	Item	15 000 00
34	Provide the budgetary allowance of R30 000-00 (Thirty Thousand Rand) for Ironmongery and Bathroom Fittings.	Item	30 000 00
<u>Contract Price Adjustment Provisions (CPAP) / Escalation</u>			
35	Provide the budgetary allowance of R 300 000.00 (Three Hundred Thousand Rand) for Contract Price Adjustment Provisions (CPAP) / Escalation to be adjusted in accordance with the JBCC Contract Price Adjustment Provisions.	Item	300 000 00
Carried To Section Summary		R	
Section No. 4			
Bill No. 1			
Provisional Sums			

- Principal Contract
Linde Wiemann RSA(Pty)Ltd
Amount

SECTION NO. 4
PROVISIONAL SUMS AND ALLOWANCES
SECTION SUMMARY

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- Principal Contract
Linde Wiemann RSA(Pty)Ltd

Section No.		Page	Amount
	<u>FINAL SUMMARY</u>		
1	PRELIMINARIES	16	
2	BUILDING WORKS	87	
3	EXTERNAL WORKS	96	
4	PROVISIONAL SUMS AND ALLOWANCES	100	
	ADD: CONTINGENCY ALLOWANCE		
	Allow the Amount of R500 000.00 (Five Hundred Thousand Rands) for Contingencies, to be used by the Architect/Principal Agent and approved by the Client, in terms of the Principal Building Agreement.		500 000 00
	SubTotal excluding Value Added Tax		
	ADD VAT @ 15%:		
	Carried to Tender		R
	FINAL SUMMARY		

C2.3 SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

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

Project title:	EXPANSION TO AN EXISTING MANUFACTURING FACILITY
Tender no:	EB/BW2/EXT/04/19/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: TENDERER SIGNATURE: WITNESS 1
NAME:	NAME:
CAPACITY: SIGNATURE: WITNESS 2
DATE:	NAME:

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

C2.4: GUARANTOR PROFORMA LETTER OF INTENT

C2.4: Guarantor Proforma Letter of Intent

EXPANSION OF TO AN EXISTING MANUFACTURING FACILITY AT THE EAST LONDON IDZ

TENDER No.: EB/BW2/EXT/04/19/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: Mr G. Whittaker

Dear Sir,

ELIDZ: EXPANSION TO AN EXISTING MANUFACTURING FACILITY- TENDER No. EB/BW2/EXT/04/19/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 Manufacturing Facility IN ZONE 1A OF THE ELIDZ.

Yours faithfully,

.....
Guarantor

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

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. [27.4.2]</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	

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

2.1.2 [14.4]	Fixed Construction Guarantee and Payment Reduction	Yes/No	
2.1.3 [14.5]	Advanced Payment is required. Where "Yes"	(Amount)	
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	<p>Option A</p> <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	<p>Option B</p> <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	<p>Adjustment of preliminaries</p> <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 		

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

	<ul style="list-style-type: none"> • Dayworks • All inclusive of tax
3.2.1	<p>Option A</p> <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>

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

3.2.4	The contract value shall be adjusted according to CPAP [3.1] (Yes/No)	YES
3.2.5	Payment of preliminaries [3.1.1, 3.1.2]	(A or B)
3.2.6	Adjustment of preliminaries [3.2.1, 3.2.2]	(A or B)
4.0	EMPLOYER CHANGES TO JBCC STANDARD DOCUMENTS	
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:	EXPANSION TO AN EXISTING MANUFACTURING FACILITY
Contract No:	EB/BW2/EXT/04/19/Z1A

A. OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **EXPANSION OF THE LINDE WIEMANN MANUFACTURING FACILITY**

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

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

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

Rand (in words):	
Rand in figures:	R

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

THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY: (cross out block which is not applicable)

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

AND WHO IS (if applicable):

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

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

AND WHO IS (if applicable):

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

SIGNED FOR THE TENDERER:

Name of Representative	Signature	Date

WITNESSED BY:

Name of Witness	Signature	Date

GUARANTEE OFFERED:

The Tenderer offers to provide security as indicated below:

i.	cash deposit of 10 % of the Contract Sum (Excl. VAT) paid within 21 days after my /our Bid has been formally accepted	Yes	No
ii	bank guarantee of 10% of the Contract sum (Excl. VAT) submitted within 1 days after my /our Bid has been formally accepted.	Yes	No
iii	insurance guarantee of 10% of the Contract sum (Excl. VAT) submitted within 21 days after my /our Bid has been formally accepted.	Yes	No

NB. 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.

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:

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

Other Contact Details of the Tenderer are:

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

B. ACCEPTANCE

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

The terms of the contract, are contained in:

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

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

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

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

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

FOR THE EMPLOYER:

Name of Signatory	Signature	Date

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

WITNESSED BY:

Name of Witness	Signature	Date

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

SCHEDULE OF DEVIATIONS:

1. Subject:
Detail:

2. Subject:
Detail:

3. Subject:
Detail:

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

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

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

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](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

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

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;

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

- 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	
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- 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.

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

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

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

(Tick applicable box)

YES		NO	
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- 5.1. If yes, provide the following particulars:

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

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

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

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

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

IN RESPECT OF BID NO.

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

.....
NB

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

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity),
the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
 - (ii) the declaration templates have been audited and certified to be correct.

(c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

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

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

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

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

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

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____