



CONTRACT NUMBER: A-RE 01-2018

THE APPOINTMENT OF CIDB GRADE 2GB UP TO 9 GB (INCLUDING 1PE UP TO 8PE POTENTIALLY EMERGING (PE) CONTRACTORS FOR THE CONSTRUCTION AND REFURBISHMENT OF BUILDINGS AND FACILITIES AROUND CITY OF EKURHULENI ONBEHALF OF VARIOUS EKURHULENI DEPARTMENTS ON AN AS AND WHEN REQUIRED BASIS FROM THE DATE OF AWARD UNTIL 30 JUNE 2021

BILL OF QUANTITY

CATEGORY 1: 2GB/1GBPE

NAME OF BIDDING ENTITY (*FULL NAME, i.e. Ltd, Ltd, JV/CONSORTIUM, SOLE PROPRIETOR etc.*):

TELEPHONE NUMBER : _____

EMAIL ADDRESS : _____

FAX NUMBER : _____

CITY OF EKURHULENI

DEPARTMENT NAME: REAL ESTATE

CONTRACT NO: A-RE 01-2018

FOR: THE APPOINTMENT OF CIDB GRADE 2GB UP TO 9 GB (INCLUDING 1PE UP TO 8PE POTENTIALLY EMERGING (PE) CONTRACTORS FOR THE CONSTRUCTION AND REFURBISHMENT OF BUILDINGS AND FACILITIES AROUND CITY OF EKURHULENI ONBEHALF OF VARIOUS EKURHULENI DEPARTMENTS ON AN AS AND WHEN REQUIRED BASIS FROM THE DATE OF AWARD UNTIL 30 JUNE 2021

PART C2 PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2.2 BILL OF QUANTITY

C2.1 PRICING INSTRUCTIONS

1. The 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. Where applicable:
 - a. Structural and Civil work has been drawn up in accordance with the provisions of the Engineering Council of SABS 1200 Standardized Specifications.
 - b. Mechanical work has been drawn up in accordance with the provisions of the Engineering Council of SA Refrigeration, Air-Conditioning and Ventilation Installations.
 - c. Electrical work has been drawn up in accordance with the provisions of the Engineering Council for Electrical work.
2. The agreement is based on the JBCC series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 6.1, March 2014. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variable are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
3. Preliminary and general requirements are based on the preliminaries, JBCC Series 2000, March 2014. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
4. It will be assumed that prices included in the 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).
5. There are no drawings listed in the bid document used for the setting up these Bills of Quantities.
6. 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.
7. Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
8. The Contract Data and standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in section 1 (preliminaries) of the Bills of Quantities.
9. The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at Contractor's risk.
10. Bidders must price every item.
11. Fill the BoQ of the category that you qualify for.

12. The amount of the preliminaries Section to be included in each monthly payment certificate shall be assessed as an amount as stipulated in the bid documentation.
13. Where the initial contract period is extended, the preliminaries shall be adjusted as set out in the documentations
14. The amount or items of the Preliminaries Section shall be adjusted as set out in the documentations.
15. For the purpose of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:

Unit	:	The unit of measurement for each of work as defined in the Standardized, Project or Particular specification
Quantity	:	The number of units of work for each item
Rate	:	The payment per unit of work at which the Bidder bids to do work
Amount	:	The quantity of an item multiplied by the bidder rate of the (same) item
Sum	:	An amount bid for an item, the extend of which is describe0d in the Bill of Quantities, Specifications or elsewhere, but of which the quantity of work is not measured in units

16. The units of measurement indicated in the Bill of Quantities are metric units. The following Abbreviations may appear in the Bill of Quantities:

mm	=	millimetre
m	=	metre
km	=	kilometre
km-pass	=	kilometre-pass
m ²	=	square metre
m ² -pass	=	square metre-pass
ha	=	hectare
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
kW	=	kilowatt
kN	=	kilonewton
kg	=	kilogram
t	=	ton (1 000 kg)
%	=	percent
MN	=	meganewton
MN-m	=	meganewton-metre
PC Sum	=	Prime Cost Sum
Prov Sum	=	Provisional Sum

15 PRELIMINARY, GENERAL AND SITE ESTABLISHMENT

15.1 Provision

Provision is made in the Bill of Quantities for items to cover the Contractors cost to supply, erect commission, maintain and eventually demolish and remove sore facilities, plant, tools and equipment, and for the Contractor to comply with any other obligations for a preliminary and general nature in terms of the contract. The sum tendered in the Bill of Quantities for any preliminary and general item shall cover the Contractors direct and overhead costs, profit and all other costs for the provision of the item and/or compliance with obligations, liabilities risks and requirements associated with the item

15.2 Payment for Fixed Cost Items

The sum tendered for these items will be paid in accordance with the relevant clauses pertaining thereto on the Bill of Quantities.

15.3 Payment for Time-related Items

The sum tendered for these items will be paid in accordance with the relevant clauses pertaining thereto on the Bill of Quantities.

15.4 Payment for Value-related Items

The sum tendered for these items will be paid in accordance with the relevant clauses pertaining thereto on the Bill of Quantities.

16 ADDITIONAL CONDITIONS OF BID

- (a) For this tender Building Construction Contractors are categorised into eight groups as per CIDB Grading projects and the required CIDB grading for each project group. More than one Building Construction Contractor will be appointed as per category 1, 2, 3, 4, 5, 6, 7 and 8.

The breakdown of contractors as per maximum value per work package is as follows:

CATEGORY	CIDB GRADING	MAX. VALUE PER WORK PACKAGE
1	2GB/1GBPE	R200,000.00
2	3GB/2GBPE	R650,000.00
3	4GB/3GBPE	R4,000,000.00
4	5GB/4GBPE	R6,500,000.00
5	6GB/5GBPE	R13,000,000.00
6	7GB/6GBPE	R40,000,000.00
7	8GB/7GBPE	R130,000,000.00
8	9GB/8GBPE	No Limit

- (b) Bidders MUST bid in the CIDB category for which they qualify and must submit the whole original bid document as issued by COE. Bidders have the option to bid in ONE additional category below their CIDB grading. COE reserves the right to consider bidders for appointment in a category below their CIDB grading. Failure to meet this requirement for no more than 2 (two) bid pricings will result in the bidder being considered only in the category for which they qualify in terms of the CIDB grading and bid conditions.
- (c) It is the intention of City of Ekurhuleni to evaluate and award this bid to more than one bidder per CIDB Category.
- (d) Financial Statement will be required for category 5 and high.
- (e) The contractors shall be appointed at their own bided rates, unless the bided rates are 10% higher than the rates of the highest procurement points scoring bidder.
- (f) In the event that the rates of the second or the third highest procurement points scoring bidders are higher than 10% of the rates of the highest procurement points scoring bidder, the second and the third highest procurement points scoring bidders shall be offered the rates of the highest procurement points scoring bidder.
- (g) If the second or thirds highest procurement points scoring bidders fail to accept the rates of the highest procurement points scoring bidder as aforesaid, within the stipulated time, COE reserves the right to offer the rates of the highest procurement points scoring bidder to the fourth and further lowest procurement points scoring bidders.
- (h) The Preliminaries and General priced amount will be calculated as percentage of total work priced by the bidder.
- (i) Official orders will be placed and if invoices and escalation documentation is received timeously, the employer shall pay to the contractor the amount certified in an interim payment certificate within thirty (30) calendar days of the date of receipt of an approved and correct payment certificate and tax invoice and corresponding labour report for the payment period concerned in accordance with Client requirements.
- (j) It is a special condition of this bid that all bidders submit the following with the fully completed bid document on or before the closing date:
 1. Proof of the successful completion of at least two similar projects (similar in nature and construction value) preferably for an organ of State as per category. Proof must be submitted in the form of a completion certificate issued to owner/client of the building. Council reserves the right to contact references provided of work completed.
- (k) Bidders may NOT bid in more than two categories, which must be equal to or lower than the CIDB grading for which the qualify in terms of the bid conditions. Failure to adhere to this requirement will result in the bidder being considered ONLY in the category for which they qualify in terms of the CIDB grading and bid conditions.
- (l) It is the intention of City of Ekurhuleni to evaluate and award this bid to more than one bidder per CIDB Category.
- (m) Council reserves the right to terminate this contract at any stage. In the case of termination, the contractor will only be remunerated for work completed on the date of the termination letter.

17 ALLOCATION OF WORK

- (a) It is the intention of COE to appoint more than one contractors per each category.
- (b) Work packages will be issued on an as-and-when required basis and on a rotational basis to ensure as far as possible a fair distribution and value for money.
- (c) First work package in each category will be issued to the highest scoring bidder per each category. All further work packages per each category will be issued to awarded bidders per category in order of highest to lowest scoring.

- (d) Should a bidder be awarded as the highest scoring bidder in more than one category, he/she will not be issued with a second work package until the first work package has been successfully completed and handed over.
- (e) All further work packages per category will be issued to awarded bidders until each bidder has received a work package in that category.
- (f) All bidders will only be issued with the next work package when the previous issued package has been completed and successfully handed over with a Practical Completion Certificate.
- (g) Each work package will be based on items and rates in the priced Bills of Quantities as submitted by the bidder in the pricing schedule or rates of the highest scoring bidder offered to other bidders or market related rates.
- (h) All work packages must be signed off by the Department of REAL ESTATE and client relevant department.
- (i) Non-performance by contractors on issued work packages will be taken into consideration and may negatively affect the allocation of further work to such contractor/s.
- (j) Bidders MUST ensure that their CIDB Grading is active throughout the contract period.

18 REQUEST BY BIDDERS

REQUEST BY BIDDER TO BE CONSIDERED FOR A SPECIFIC CATEGORY WHICH IS EQUAL TO OR BELOW THEIR CIDB GRADING IN TERMS OF THE BID CONDITIONS

The table below MUST be completed by all bidders to indicate the Category for which they are bidding. Bidders may not bid in more than two (02) Categories. Failure to adhere to this requirement will result in the bidder being considered ONLY in the category for which they qualify in terms of the CIDB grading and bid conditions.

CATEGORY	CIDB GRADING	Indicate with an X
1	2GB/1GBPE	
2	3GB/2GBPE	
3	4GB/3GBPE	
4	5GB/4GBPE	
5	6GB/5GBPE	
6	7GB/6GBPE	
7	8GB/7GBPE	
8	9GB/8GBPE	

NB. Proof of the relevant CIDB GRADING will be verified by City of Ekurhuleni. If the bidder is not registered for that specific CIDB GRADING or does not qualify to bid in that Category, they will be disqualified.

PLEASE NOTE

THE CONSTRUCTION COSTS WILL BE USED FOR EVALUATION PURPOSES.

THE RATES PRICED PER EACH ITEM WILL BE APPLIED TO SIMILAR ITEM WHEN WORK IS ALLOCATED TO THE CONTRACTOR

IT IS THE INTENTION OF CITY OF EKURHULENI TO EVALUATE AND AWARD THIS BID TO MORE THAN ONE BIDDER PER CIDB CATEGORY

BIDDERS MUST BID IN THE CIDB CATEGORY FOR WHICH THEY QUALIFY AND MUST SUBMIT THE WHOLE BID DOCUMENT AS ISSUED BY COE. BIDDERS HAVE THE OPTION TO BID IN ONE ADDITIONAL CATEGORY BELOW THEIR CIDB GRADING. COE RESERVES THE RIGHT TO CONSIDER BIDDERS FOR APPOINTMENT IN A CATEGORY BELOW THEIR CIDB GRADING. FAILURE TO MEET THIS REQUIREMENT FOR NO MORE THAN 2 (TWO) BID PRICINGS WILL RESULT IN THE BIDDER BEING CONSIDERED ONLY IN THE CATEGORY FOR WHICH THEY QUALIFY IN TERMS OF THE CIDB GRADING AND BID CONDITIONS.

FINANCIAL STATEMENT WILL BE REQUIRED FOR CATEGORY 5 AND HIGH

NB: PLEASE NOTE:

FOR CATEGORY 1, 2, 3, 4, 5, 6, 7 and 8 BID PRICE ARE NOT FIRM THEN BUT SUBJECT TO CPAP VERIFICATION:

Contract prices are subject to adjustment in terms of Contract Price Adjustment Provisions (CPAP)

$$A = 0.85 \times V \times (X_e / X_o - 1)$$

Where:

A	=	the adjustment amount
0.85	=	a constant which provides for a 15% non-adjustable element
V	=	the work value in such work group and the valuation period
X _e	=	the value of the index applicable to such work group and the valuation period which shall be the value for :
		<ul style="list-style-type: none">• The month before that during which the payment certificate is dated in respect of certificates issued up to and including 15th of the month• The month during which the payment certificate is dated in respect of certificates issued after the 15th of the month
X _o	=	the value of the index applicable to such work group for the base month

The base month is the month prior to closing date of the bid.

FINANCIAL STATEMENT WILL BE REQUIRED FOR CATEGORY 5 (6GB/GBPE) AND HIGH

PLEASE NOTE:

1. This bid is estimated to exceed a rand value of R10 million (VAT, escalation and contingencies included). Accordingly—
 - (a) if a bidder is a registered company required by law to have its annual financial statements audited or independently reviewed in compliance with the requirements of the Companies Act, Act No.71 of 2008, or any other law, the bidder is required to furnish audited or independently reviewed annual financial statements, as the case may be, prepared within six (6) months of the end of the bidders **most recent financial year together with** the audited or independently reviewed annual financial statements **for the two immediately preceding financial years**, unless the bidder was only established within the past three (3) years in which case **all** of its annual financial statements must be submitted.
 - (b) if a bidder is a registered close corporation, the bidder is required to furnish annual financial statements in compliance with the provisions of the Close Corporations Act, Act No. 69 of 1984, prepared within nine (9) months of the end of the bidders **most recent financial year together with** the annual financial statements **for the two immediately preceding financial years**, unless the bidder was only established within the past three (3) years in which case **all** of its annual financial statements must be submitted.
 - (c) if the bidder only commenced business within the past three years, the bidder is required to submit annual financial statements in compliance
 - (d) with the provisions of (1) and (2) above for each of its financial years since commencing business.
 - (e) if a bidder is not required by law to have its annual financial statements audited or independently reviewed, or is not a Close Corporation, then non-audited annual financial statements for the periods referred to above must be submitted.
2. Annual financial statements submitted must comply with the requirements of the Companies Act or the Close Corporations Act.

Signature of person authorised to sign bid documents

Name in block letters

Designation

Date

2GB-1GBPE Generic Building BOQ

DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<p><u>SECTION NO. 1</u></p>				
<p><u>BILL NO. 1</u></p>				
<p><u>PRELIMINARIES</u></p>				
<p><u>NOTES</u></p>				
<p>i) The Agreement is to be the form of offer and acceptance (agreement) C 1.1 of bid document and JBCC Series 2000 Principal Building Agreement, Edition 6.1, March 2014, including Contract Data CE and EC and all other JBCC support documentation that together form the contract between the Employer and Contractor</p>				
<p>ii) The Preliminaries are to be the JBCC Series 2000 Preliminaries, March 2014 for use with the JBCC Principal Building Agreement and shall be deemed to be incorporated herein</p>				
<p>iii) The Tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only</p>				
<p>iv) Where standard clauses or options are not applicable to this contract such modifications, or corrections as, are necessary are given under each relevant clause</p>				
<p>v) Where any items are not relevant to this specific Agreement such items are marked NOT APPLICABLE in the amount column (N/A)</p>				
<p>vi) Option A as set out in clause 26.9.4 hereinafter, is to be used for the adjustment of the preliminaries. Each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount which shall not be varied), "V" denotes an amount which shall be varied in proportion to the contract value as compared with the contract sum and "T" denotes an amount which shall be varied in proportion to the contract period.</p>				
<p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>				R

<p style="text-align: right;">Brought Forward</p> <p>vii) Items not priced in these preliminaries shall be deemed to be included elsewhere and as priced as such</p> <p>viii) Should there be any discrepancy between these Preliminaries and the Agreement, these Preliminaries shall take precedence</p> <p>Note: Tenderers are to note that all items contained in the builder's work section are measured in accordance to the Standard System of Measuring Building Work (SSMBW) 2014</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Preliminaries section to be priced in the range of 10-13% of the contract value(Excluding Preliminaries) on a contract period of twelve (12) months, where 10% will be fixed, 15% will be value related and 75% will be time related.</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p>DEFINITIONS</p> <p>Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p> <p>OBJECTIVE AND PREPARATION</p> <p>Law, Regulations and Notices (clause 2)</p> <p>F:..... V:..... T:.....</p> <p>Offer and Acceptance (clause 3)</p> <p>F:..... V:..... T:.....</p> <p>Assignment and Cession (clause 4)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p style="text-align: right;">R</p>
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		Brought Forward		R
Contract Documents (clause 5)	Item		1	
F:..... V:..... T:.....				
Employer's Agents (clause 6)	Item		1	
F:..... V:..... T:.....				
Design and Responsibility (clause 7)	Item		1	
F:..... V:..... T:.....				
Works Risk (clause 8)	Item		1	
F:..... V:..... T:.....				
Indemnities (clause 9)	Item		1	
F:..... V:..... T:.....				
		Carried Forward		R
Section No.1				
Bill No.1				
Preliminaries				

	Brought Forward			R
Insurances (clause 10)	Item	1		
F:..... V:..... T:.....				
Security (clause 11)	Item	1		
F:..... V:..... T:.....				
EXECUTION				
Duties of the parties (clause 12)	Item	1		
F:..... V:..... T:.....				
Setting out of the Works (clause 13)	Item	1		
The Contractor shall notify the Principal Agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order to make the necessary arrangements for the rectification of any such encroachments				
F:..... V:..... T:.....				
	Carried Forward			R
Section No.1 Bill No.1 Preliminaries				

Brought Forward				R
Nominated Subcontractors (clause 14)	Item	1		
In addition to the provisions of sub-clause 14.1.4, the Contractor shall, at any time on being requested to do so by the Principal Agent, furnish a copy of the JBCC Nominated Subcontract Agreement to the Employer, within five (5) working days of such request F:..... V:..... T:.....				
Selected Subcontractors (clause 15)	Item	1		
In addition to the provisions of sub-clause 15.2.1 the Contractor shall, at any time on being requested to do so by the Principal Agent, furnish a copy of the JBCC Selected Subcontract Agreement to the Employer, within five (5) working days of such request F:..... V:..... T:.....				
Direct Contractors (clause 16)	Item	1		
F:..... V:..... T:.....				
Direct Contractors (clause 16)	Item	1		
F:..... V:..... T:.....				
Carried Forward				R
Section No.1 Bill No.1 Preliminaries				

		Brought Forward		R
COMPLETION				
Interim completion (clause 18)	Item		1	
F:..... V:..... T:.....				
Practical completion (clause 19)	Item		1	
F:..... V:..... T:.....				
Sectional completion (clause 20)	Item		1	
F:..... V:..... T:.....				
Defects liability period and Final Completion (clause 21)	Item		1	
F:..... V:..... T:.....				
		Carried Forward		R
Section No.1				
Bill No.1				
Preliminaries				

		Brought Forward		R
Latent Defects Liability Period (clause 22)	Item		1	
F:..... V:..... T:.....				
Revision of date for practical completion (clause 23)	Item		1	
F:..... V:..... T:.....				
Penalty for late or non-completion (clause 24)	Item		1	
F:..... V:..... T:.....				
PAYMENT				
Payment (clause 25)	Item		1	
F:..... V:..... T:.....				
		Carried Forward		R
Section No.1				
Bill No.1				
Preliminaries				

	Brought Forward			R
Adjustment to the contract value (clause 26)	Item	1		
F:..... V:..... T:.....				
Recovery of expense and loss (clause 27)	Item	1		
F:..... V:..... T:.....				
SUSPENSION AND TEMINATION				
Suspension By The Contractor (clause 28)	Item	1		
F:..... V:..... T:.....				
Termination by Employer (clause 29)	Item	1		
F:..... V:..... T:.....				
	Carried Forward			R
Section No.1				
Bill No.1				
Preliminaries				

Brought Forward				R
DISPUTE				
Dispute Resolution (clause 30)	Item		1	
F:..... V:..... T:.....				
<u>CONTRACT AGREEMENT</u>				
POST TENDER PROVISIONS				
Post tender provisions	Item		1	
F:..... V:..... T:.....				
A1 - Project Name				
A2 - Works Description				
Will differ per project and will be described in preliminary section of Bill of Quantities.				
A3 - Site Description				
Quantities.				
A4 - The Employer is the City of Ekurhuleni				
The Employer's address for receipt of communications is:				
Physical address:				
City of Ekurhuleni				
C/o Cross & Rose Streets				
GERMISTON				
1400				
Postal address:				
Private Bag 1069				
GERMISTON				
1400				
Telephone: (011) 999-0731 Fax: (011) 999-7511				
Carried Forward				R
Section No.1				
Bill No.1				
Preliminaries				

<p style="text-align: right;">Brought Forward</p> <p>A5 - The Principal Agent referred to in the Agreement. To be completed after award of bid</p> <p>Physical address:</p> <p>Postal address:</p> <p>Telephone: Fax:</p> <p>B2.1/25.15 The law of the country applicable to the project.</p> <p>RSA.</p> <p>B5.1 Signed contract documents held by the principal agent, or CoE, or Contractor</p> <p>B5.5 Number of copies of documents issued free to the contractor.</p> <p>3 (Three)</p> <p>B5.5.1 Priced Bill of Quantities.</p> <p>Yes</p> <p>B6 Description of interest of agent in the project other than professional services, if applicable.</p> <p>Not Applicable</p> <p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>			<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<p style="text-align: right;">Brought Forward</p> <p>B10 Insurances.</p> <p>To be effected by the Contractor refer to relevant clauses in Preliminaries Bill.</p> <p>B11.1.1-5 The contractor shall provide a Guarantee for Construction to the employer.</p> <p>Yes</p> <p>B12.9.2.7 Alterations & additions to existing premises.</p> <p>(To Be Confirmed)</p> <p>B12.1.2 Premises occupied.</p> <p>(To Be Confirmed)</p> <p>B12.1.3 Relevant natural features to be retained/relocated/removed.</p> <p>(To Be Confirmed)</p> <p>B12.1.4 Area the contractor may not occupy?</p> <p>(To Be Confirmed)</p> <p>B12.1.5 Utilities connection – location.</p> <p>(To Be Confirmed)</p> <p>☒</p>			<p>R</p>
<p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>			<p>R</p>

	Brought Forward		R
B12.1.6 Statutory and/or other notices to be compiled with by the contractor before possession of site can be given.			
(To Be Confirmed)			
B12.1.7 Possession of the site – intended date.			
(To Be Confirmed)			
B12.1.12 Description of free issue by employer.			
(To Be Confirmed)			
B14 Nominated Sub-contractors.			
(To Be Confirmed)			
B16 Employer to define extent of works by a direct Contractors.			
Not applicable.			
B19 Practical completion of the works as a whole. Differ per project.			
Penalty per calendar day: R 1,600.00			
	Carried Forward		R
Section No.1			
Bill No.1			
Preliminaries			

Brought Forward			R
B19/20/24 Practical completion in sections.			
Not applicable.			
B19.1.1 Items that do not have to be completed to achieve practical completion.			
(To Be Confirmed)			
Criteria to achieve practical completion (the BoQ may contain a more detailed description).			
(To Be Confirmed)			
B25.0 Currency. Rands (ZA)			
B25.2 Issue of regular payment certificates on.			
(Dates To Be Confirmed)			
B25.3.2 Materials and goods off site – paid subject.			
Not applicable.			
B25.3.4/26.9.5 Contract Price Adjustment: Is Applicable			
$A = 0.85 \times V \times (X_e / X_o - 1)$			
Where:			
A = the adjustment amount			
0.85 = a constant which provides for a 15% non-adjustable element			
V = the work value in such work group and the valuation period			
X _e = the value of the index applicable to such work group and the valuation period which shall be the value for :			
<ul style="list-style-type: none"> • The month before that during which the payment certificate is dated in respect of certificates issued up to and including 15th of the month • The month during which the payment certificate is dated in respect of certificates issued after the 15th of the month 			
X _o = the value of the index applicable to such work group for the base month			
Carried Forward			R
Section No.1			
Bill No.1			
Preliminaries			

		Brought Forward		R
SECTION B: PRELIMINARIES				
DEFINITIONS AND INTERPRETATION (B1)				
Definitions and interpretation (B1.1 to B1.4.6)	Item		1	
F:..... V:..... T:.....				
DOCUMENTS (B2)				
Checking of documents (B2.1)	Item		1	
F:..... V:..... T:.....				
Provisional bills of quantities (B2.2)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Availability of construction documentation (B2.3)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Interests of agents (B2.4)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Priced documents (B2.5)	Item		1	
Price documents to be submitted with all bid documents issued				
Notwithstanding the provisions of this clause, the contractor shall deposit/submit the priced documents within the time as stated in 5.5 of the Data EC				
Rates (items)				
		Carried Forward		R
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<p style="text-align: right;">Brought Forward</p> <p>Where appropriate, rates for similar items in these bills of quantities should be the same</p> <p>Prior to signing of the Principal Building Agreement the Principal Agent shall be at liberty to make such adjustments to individual rates, whether they are Subcontractor's rates or not, as well as eliminate errors or discrepancies or which he considers to be imbalanced, unreasonable or unrealistic rates, without altering the tender sum</p> <p>F:..... V:..... T:.....</p> <p>Tender submission (B2.6)</p> <p>This clause is amended by substituting "JBCC Form of Tender" with "Official Form of Tender":</p> <p>F:..... V:..... T:.....</p> <p>THE SITE (B3)</p> <p>Defined works area (B3.1)</p> <p>See Schedule of Variables (B12)</p> <p>F:..... V:..... T:.....</p> <p>Geotechnical investigation (B3.2)</p> <p>See Schedule of Variables (B12)</p> <p>F:..... V:..... T:.....</p> <p>Existing premises occupied (B3.4)</p> <p>See Schedule of Variables (B12)</p> <p>F:..... V:..... T:.....</p> <p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... V:..... T:.....</p> <p>Previous work - defects (B3.6)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>R</p>
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	Brought Forward			R
Services - known (B3.7)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Services - unknown (B3.8)	Item		1	
F:..... V:..... T:.....				
Protection of trees (B3.9)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Articles of value (B3.10)	Item		1	
F:..... V:..... T:.....				
Inspection of adjoining properties (B3.11)	Item		1	
	Carried Forward			R
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	Brought Forward		
See Schedule of Variables (B12)			R
F:..... V:..... T:.....			
MANAGEMENT OF CONTRACT (B4)			
Management of the Works (B4.1)	Item	1	
The Contractor shall obtain all necessary particulars of Subcontractors' work timeously so that provision for recesses, chases, holes, etc. can be made			
F:..... V:..... T:.....			
Programming for the Works (B4.2)	Item	1	
B4.2.1 Immediately on award of the contract and prior to commencement on Site, the Contractor, in conjunction with the Principal Agent shall agree the working programme covering the first month of the Construction Period. During the first month of the Construction Period the contractor shall prepare and draw up in conjunction with the Principal Agent the programme for the balance of the works in accordance with the conditions of this Clause B4.2. The Principal Agent shall have the right to modify such programme to accommodate changes necessary in their opinion for co-ordinating the project as a whole. Any cost implications relating to such modification shall be dealt with in accordance with the provisions of the Agreement			
B4.2.2 This programme shall be drawn up in accordance with the dates given herein for possession, and practical completion and shall be in sufficient and approved detail to ensure proper control over the work			
B4.2.3 Notwithstanding the fact that the programme has been prepared in conjunction with the Principal Agent the Contractor shall be responsible at all times for maintaining the accuracy, validity and reasonableness of the programme, and the implementation thereof			
B4.2.4 The programme shall be compiled based on the Critical path Method of programming and the critical activities are to be clearly highlighted. It shall be compiled in such a way that logic is not constrained by resource limitations unless specifically agreed otherwise by the Principal Agent A copy of the agreed programme in Data format clearly showing all logic links shall be supplied to the Principal Agent. All approved updated and claim programmes shall be similarly supplied to the Principal Agent			
	Carried Forward		R
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<p style="text-align: right;">Brought Forward</p> <p>B4.2.5 Should circumstances change to the extent where the Contractor is of the opinion that changes to the programme are required, then the Contractor shall have written request to the Principal Agent for such changes, clearly identifying the reasons for requiring such change. The Contractor and the Principal Agent shall thereafter agree such changes, if any Should the Principal Agent be of the opinion that the programme requires revisions, and notwithstanding the fact that a request for such revision has not been received from the Contractor, the Principal Agent shall be entitled to instruct the Contractor to revise the programme accordingly, in giving such instruction the Principal Agent will take due account of any reasonable request made by the Contractor</p> <p>B4.2.6 The Contractor and the Principal Agent shall, at regular intervals not exceeding one month, agree the state of progress of the Works relative to the latest agreed revision of the programme. Such agreement shall include the recording of actual commencement and completion dates for each activity and shall constitute the official record of the progress at such point in time</p> <p>B4.2.7 In addition to and based on the programme systems and format dictated above, the Contractor shall devise Detailed Working Programmes. These shall be drawn on a regular basis (at least monthly), to the satisfaction of the Principal Agent. Such Working Programmes shall at all times relate to the constraints of the current Programme. Clause 4.2</p> <p>B4.2.8 The Contractor is referred to the Notes to Tenderers - Item No.2 (Scope of Works Schedule) for an understanding of the extent of work required.</p> <p>B4.2.9 It is imperative therefore that the programme of the works be thoroughly discussed prior to the commencement of construction thus taking the various factors and complications into account. The Tenderers is afforded the opportunity to thus price for these factors alongside this item</p> <p>B4.2.10 MAIN CONTRACTOR ROLE IN MANAGEMENT AND CO-ORDINATION OF NOMINATED SUB-CONTRACTORS /SELECTED SUB-CONTRACTORS WORK The Contractor shall provide the services of an experienced and competent Construction Management Team to control the programming, production and co-ordination of all drawings (including shop drawings) and samples and the programming and execution of work by all Nominated Sub-Contractors/Selected Sub-Contractors The Contractor will be responsible for planning, scheduling and monitoring through detailed programming that the working drawings for the contract are made available on agreed dates to enable the Nominated Sub-Contractors /Selected Sub-Contractors to execute their respective works Co-ordination Meetings The Contractor will convene Nominated Sub-Contractors/Selected Sub-Contractors co-ordination meetings at regular intervals at which the shop drawings of each Nominated Sub-Contractors/Selected Sub-Contractors and the resultant co-ordinated drawings (including shop drawings) are to be stamped "co-ordinated" and dated before submission to the Principal Agent for approval</p> <p>F:..... V:..... T:.....</p> <p>Progress meetings (B4.3)</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>	<p style="text-align: center;">Item</p>	<p style="text-align: center;">1</p>	<p style="text-align: center;">R</p>
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	Brought Forward			R
Technical meetings (B4.4)	Item	1		
F:..... V:..... T:.....				
Labour and plant records (B4.5)	Item	1		
F:..... V:..... T:.....				
SAMPLES, SHOP DRAWINGS AND MANUFACTURERS INSTRUCTIONS (B5)				
Samples of materials (B5.1)	Item	1		
F:..... V:..... T:.....				
Workmanship samples (B5.2)	Item	1		
F:..... V:..... T:.....				
	Carried Forward			R
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		Brought Forward		R
Shop drawings (B5.3)	Item		1	
F:..... V:..... T:.....				
TEMPORARY WORKS AND PLANT (B6)				
Deposits and fees (B6.1)	Item		1	
F:..... V:..... T:.....				
Enclosure of the works (B6.2)	Item		1	
See Schedule of Variables (B12)				
Refer to external works for temporary hoarding				
F:..... V:..... T:.....				
Advertising (B6.3)	Item		1	
Advertisements on the hoarding or elsewhere on the site will be allowed, subject to the written approval of the Principal Agent				
F:..... V:..... T:.....				
Plant, equipment, sheds and offices (B6.4)	Item		1	
In addition to the provisions of sub-clause 6.4.1, scaffolding shall not be permitted to be erected from buildings on adjacent sites				
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Main notice board (B6.5)	Item		1	
F:..... V:..... T:.....				
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Subcontractors notice board (B6.6)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
		Carried Forward		R
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		Brought Forward		R
TEMPORARY SERVICES (B7)				
Location (B7.1)	Item		1	
F:..... V:..... T:.....				
Water (B7.2)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Electricity (B7.3)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Telecommunication equipment (B7.4)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Ablution facilities (B7.5)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
		Carried Forward		R
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		Brought Forward		R
PRIME COST AMOUNTS (B8)				
Responsibility for prime cost amounts (B8.1)	Item	1		
F:..... V:..... T:.....				
ATTENDANCE ON NOMINATED/SELECTED SUBCONTRACTORS (B9)				
General attendance (B9.1)	Item	1		
In addition to the provisions of clause B9.1, the Contractor shall, at his own expense, provide the following additional general attendance:				
Make good after Nominated/Selected Subcontractors				
F:..... V:..... T:.....				
Special attendance (B9.2)	Item	1		
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Commissioning - Fuel, water and power (B9.3)	Item	1		
F:..... V:..... T:.....				
		Carried Forward		R
Section No.1 Bill No.1 Preliminaries				

Brought Forward			R
FINANCIAL ASPECTS (B10)			
Statutory taxes, duties and levies (B10.1)	Item	1	
<p>In addition to the provisions of clause B10.1, all individual amounts in these bills of quantities exclude Value Added Tax (VAT) VAT is to be calculated as a lump sum and added to the total value of all values in the Final Summary under the item provided for VAT</p> <p>F:..... V:..... T:.....</p>			
Payment of preliminaries (B10.2)	Item	1	
<p>See Schedule of Variables (B12)</p> <p>F:..... V:..... T:.....</p>			
Adjustment of preliminaries (B10.3)	Item	1	
<p>Notwithstanding the provisions of sub-clause B10.3.1</p> <p>(Alternative A) and for the purpose of adjusting the Time Related amount, only revision of the date for practical completion granted by the Employer for variations, omissions, additions and substitutions referred to in sub-clauses 29.2 and 29.3 of the Principal Building Agreement, shall be taken into account</p> <p>As an allowance, the first ten (10) ten working days of the construction period is regarded as an administration period and shall be deducted from both the initial and the revised construction periods for calculation purposes</p> <p>F:..... V:..... T:.....</p>			
Payment certificate cash flow (B10.4)	Item	1	
<p>F:..... V:..... T:.....</p>			
Carried Forward			R
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		Brought Forward		R
GENERAL (B11)				
Protection of the Works (B11.1)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Protection/isolation of existing/sectionally occupied Works (B11.2)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Security of the works (B11.3)	Item		1	
F:..... V:..... T:.....				
Notice before covering work (B11.4)	Item		1	
F:..... V:..... T:.....				
Disturbance (B11.5)	Item		1	
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Enviromental disturbance (B11.6)	Item		1	
F:..... V:..... T:.....				
Works cleaning and clearing (B11.7)	Item		1	
F:..... V:..... T:.....				
		Carried Forward		R
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	Brought Forward			R
Vermin (B11.8) F:..... V:..... T:.....	Item	1		
Overhand work (B11.9) F:..... V:..... T:.....	Item	1		
Instruction Manuals and guarantees (B11.10) F:..... V:..... T:.....	Item	1		
As built information (B11.11) F:..... V:..... T:.....	Item	1		
Tenant installation (B11.12) F:..... V:..... T:.....	Item	1		
<u>SCHEDULE OF VARIABLES (B12)</u>				
PRE-TENDER INFORMATION				
Pre-tender information (B12.1) F:..... V:..... T:.....	Item	1		
12.1.1 <input checked="" type="checkbox"/> Provisional bills of quantities (B2.2)				
The quantities are provisional:				
<input checked="" type="checkbox"/> No				
12.1.2 <input checked="" type="checkbox"/> Availability of construction documentation (B2.3)				
Construction documentation is complete:				
<input checked="" type="checkbox"/> Yes				
12.1.3 <input checked="" type="checkbox"/> Interests of agents (B2.4)				
The agents have no interest in this project apart from their professional interest				
	Carried Forward			R
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<p style="text-align: right;">Brought Forward</p> <p>12.1.4 <input checked="" type="checkbox"/> Defined Works area (B3.1)</p> <p>The works will be defined and restricted to specific areas only as determined by the Principal Agent and shall be dealt at the compulsory site inspection meeting.</p> <p>12.1.5 <input checked="" type="checkbox"/> Geotechnical investigation (B3.2)</p> <p><input checked="" type="checkbox"/> Geotechnical Report will be available on request <input checked="" type="checkbox"/> where applicable</p> <p>12.1.6 <input checked="" type="checkbox"/> Existing premises occupied (B3.4)</p> <p><input checked="" type="checkbox"/> Yes</p> <p>12.1.7 <input checked="" type="checkbox"/> Previous work - dimensional accuracy (B3.5) existing building, etc demolitions</p> <p>12.1.8 <input checked="" type="checkbox"/> Previous work defects</p> <p><input checked="" type="checkbox"/> Existing buildings, etc demolitions complete (B3.6) or in part</p> <p>12.1.9 <input checked="" type="checkbox"/> Services - known (B3.7)</p> <p><input checked="" type="checkbox"/> As shown on drawings</p> <p>12.1.10 <input checked="" type="checkbox"/> Protection of trees (B3.9)</p> <p><input checked="" type="checkbox"/> No trees are to be removed without prior instruction from the Principal Agent and existing trees to be <input checked="" type="checkbox"/> protected from damage for the full duration of the <input checked="" type="checkbox"/> contract</p> <p>12.1.11 <input checked="" type="checkbox"/> Inspection of adjoining properties (B3.11)</p> <p><input checked="" type="checkbox"/> Not applicable</p> <p>12.1.12 <input checked="" type="checkbox"/> Enclosure of the Works (B6.2)</p> <p>Temporary site fencing is required and the contractor is to maintain same for the duration of the contract (refer to applicable items measured in the Bill of Quantities)</p> <p style="text-align: right;">Carried Forward</p> <p>Section No.1 Bill No.1 Preliminaries</p>		<p style="text-align: right;">R</p> <hr/> <p style="text-align: right;">R</p>
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<p style="text-align: right;">Brought Forward</p> <p>12.1.13 Offices (B6.4.3)</p> <p>Office accommodation shall be minimum 4 X 3 X 3m high internally, suitable insulated and ventilated, provided with electric light and fitted with boarded floor, table and ten chairs</p> <p>12.1.14 Main notice board (B6.5)</p> <p>The main notice board shall be strongl made, 2,17m wide and 1,715m high, with 19mm thick surround projecting 13mm over face The board is to have a flush even surface and is to be divided into four sections and painted navy blue and ivory white The lettering is to be 50mm and 100mm "sans serif" in ivory white on the blue background and in 100mm "sans serif" in navy blue on the ivory white background The inscription, in one language only, which must bear the approval of the Employer, will be given to the Contractor by the Principal Agent The board must be adequately supported No other names or notice boards may be erected without the written approval of the Principal Agent</p> <p>Sketch drawings of all proposed names or notice boards must be submitted to the Principal Agent for approval, before being prepared and erected on site These sketch drawings must not only show the full content of the proposed names or notice boards, but also the position and locality in which the boards will be erected</p> <p>12.1.15 Subcontractors notice board (B6.6)</p> <p>A notice board is required:</p> <p>No</p> <p style="text-align: right;">Carried Forward</p>		<p style="text-align: right;">R</p> <p style="text-align: right;">R</p>
<p>Section No.1 Bill No.1 Preliminaries</p>		

	Brought Forward		R
12.1.16 Water (B7.2)			
Option A applicable			
12.1.17 Electricity (B7.3)			
Option A applicable			
12.1.18 Telecommunications (B7.4)			
Telephone: Yes - Site			
Facsimile: Yes - Offices			
E mail: Yes - Offices			
12.1.19 Ablution facilities (B7.5)			
Option A applicable			
12.1.20 Protection of existing/sectionally occupied works (B11.2)			
Protection is required:			
No			
12.1.21 Special attendance (B9.2)			
Not Applicable			
12.1.22 Protection of the works (B11.1)			
The sections where construction works is in progress needs to be barricaded and sealed off from access to the general public			
12.1.23 Disturbance (B11.5)			
Contractor to take note that the works is to be carried out within a public area and precaution is to be taken with regard to minimizing disturbance, dust, movement, noise, etc. Steps for prevention and minimization of above factors will be pre-			
determined on site with the Principal Agent			
	Carried Forward		R
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Brought Forward				
12.1.24 Enviromental disturbance (B11.60)				
Clause applicable				
No specific requirements				
POST-TENDER INFORMATION				
Post-tender information (B12.2)				
	Item	1		
F:..... V:..... T:.....				
12.2.1 Payment of preliminaries				
Option B applicable				
12.2.2 Adjustment of preliminaries				
Option A applicable				
12.2.3 Additional agreed preliminaries items: No				
<u>SECTION C: SPECIFIC PRELIMINARIES</u>				
PROPRIETARY BRANDED PRODUCTS				
	Item	1		
The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative				
F:..... V:..... T:.....				
OVERTIME				
	Item	1		
Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.				
F:..... V:..... T:.....				
AS BUILT DRAWINGS				
	Item	1		
The position of construction breaks and the extent 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.				
F:..... V:..... T:.....				
Carried Forward				
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Brought Forward				R
SITE INSTRUCTIONS	Item	1		
Site 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:.....				
LABOUR RECORD	Item	1		
At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day. F:..... V:..... T:.....				
PLANT RECORD	Item	1		
At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works. F:..... V:..... T:.....				
NON CESSION OF MONIES	Item	1		
The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract F:..... V:..... T:.....				
GENERAL SPECIFICATION	Item	1		
The general specification for the works is the Model Preambles For Trades November 2008 as published by the Association of Quantity Surveyors. Tenderers are to avail themselves of the full contract thereof and the document will be deemed to be part of the conditions of of tender and contract F:..... V:..... T:.....				
Carried Forward				R
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	Brought Forward			
<p>OCCUPATIONAL HEALTH AND SAFETY ACT - SECTION 37(2)</p> <p>The tenderers attention is drawn to the fact that the Occupational Health and Safety Act (Act 85 of 1993, Construction Regulations of 2014) is in force. Copies of the Act are available from the Government Printing Works, 149 Bosman Street, Pretoria (Private Bag X85, Pretoria, 0001, Tel No. (012) 334-4500).</p> <p>Tenderers are expected to be fully acquainted with the requirements of the Act.</p> <p>A pro-forma "Agreement in terms of the Occupational Health and Safety Act - Part C 1.4" is included in these bid documents. Tenderers are advised to study this pro-forma in order to make themselves fully conversant with the requirements and responsibilities of the Act and the Municipality.</p> <p>Tenderers are to provide for the above-mentioned requirements and to allow for all cost implications regarding the above including risk assesment, safety plan and monitoring system for the duration of the contract.</p> <p>F:..... V:..... T:.....</p>	Item	1		R
<p>COMMUNITY EMPLOYMENT AND SMME INVOLVEMENT</p> <p>The building and related projects of the CoE shall be labour intensive and shall promote community employment in the execution of the contract resulting from this tender. Furthermore, it shall contribute to the development of SME's (Small and Medium Enterprises) especially from previously disadvantaged communities</p> <p>Local labour</p> <p>It is an explicit condition of this contract that only persons normally resident in the locality of the works (Local labour) may be employed on the contract. Provided however, that should adequate and appropriate labour not be available within the locality, other labour may be employed, subject to the approval of the Representative/Agent and satisfactory proof being provided that every reasonable endeavour has been made, to employ labour from the immediate locality. The contractors shall identify the local community leaders, with the purpose of negotiating with them, regarding the utilisation of local labour in the construction process. In this regard, the Contractor shall futhermore give preference, where possible, to the employment of single heads of households, women, youth and disabled persons. The Contractor shall in general, maximize the involvement of the local community</p> <p>F:..... V:..... T:.....</p>	Item	1		
<p>SPECIFIC GOAL PARTICIPATION</p> <p>Tenderers should note that this project is subject to the maximum utilization of women, youth and disabled and preference will be given as such and also monitored during the construction stage. Details of the tenderers proposals in this regard is to be provided before commencement of the works and data forms to be completed by the contractor</p> <p>F:..... V:..... T:.....</p>	Item	1		
<p>Section No.1 Bill No.1 Preliminaries</p>	Carried Forward			R

		Brought Forward		R
LABOUR INTENSIVE WORKING METHODS	Item		1	
<p>Tenderers should note that this project is subject to the use of labour intensive construction methods, e.g. excavations, filling, etc to be done by hand. Details of the tenderers proposals in this regard is to be provided before commencement of the work by the contractor for approval by the Representative Agent</p> <p>F:..... V:..... T:.....</p>				
NON ACCREDITED TRAINING	Item		1	
<p>Tenderers are to note that non accredited training (i.e. on site training is to be provided during the construction period). Details of the tenderer's proposals in this regard is to be provided before commencement of the works by the contractor for approval by the Representative Agent</p> <p>F:..... V:..... T:.....</p>				
EXPANDED PUBLIC WORKS PROGRAMME	Item		1	
<p>The tenderers attention is drawn to the fact that the Expanded Public Works Programme (POLICY, STRATEGY AND IMPLEMENTATION PLAN OF ACTION, 2015-2019) is in force, wherein tenderers are expected to among others:</p> <p>(i) employ, train, and empower a minimum of 90% from local community members per project within a 5km radius of projects.</p> <p>(ii) sub-contract or procure a minimum of 25% of the contract value from Ekurhuleni based suppliers and service providers</p> <p>Tenderers are expected to be fully acquainted with the requirements of the Policy.</p> <p>F:..... V:..... T:.....</p>				
TESTING OF FLAT ROOF WATERPROOFING FOR WATER TIGHTNESS	Item		1	
<p>F:..... V:..... T:.....</p>				
COOPERATION OF CONTRACTOR FOR COST MANAGEMENT	Item		1	
<p>F:..... V:..... T:.....</p>				
		Carried Forward		R
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		Brought Forward		R
WARRANTIES FOR MATERIALS AND WORKMANSHIP	Item		1	
F:..... V:..... T:.....				
RESIDENT ENGINEER	Item		1	
F:..... V:..... T:.....				
OCCUPATIONAL HEALTH AND SAFETY CONSULTANT	Item		1	
F:..... V:..... T:.....				
SAFETY OFFICER	Item		1	
F:..... V:..... T:.....				
SUMMARY OF PRELIMINARIES				
Tenderer's to submit breakdown of overall preliminaries as indicated hereunder				
Total preliminaries:				
1. Fixed related <input type="checkbox"/>				
2. Value related <input type="checkbox"/>				
3. Time related <input type="checkbox"/>				
Carried to sectional summary				
Section No.1				
Bill No.1				
Preliminaries				

	Unit	Qty	Rate	Amount
<p><u>SECTION NO. 2</u></p>				
<p><u>BILL NO. 1</u></p>				
<p><u>DEMOLITIONS, REMOVALS AND ALTERATIONS</u></p>				
<p>NOTE:</p>				
<p>For Preambles see the Model Preambles for Trades 2008</p>				
<p>edition published by the Association of South African Quantity Surveyors</p>				
<p>Old materials</p>				
<p>Old materials from alterations except where described to be reused or handed over, become the property of the Contractor who must allow credit for same in the item rates as described below. Old materials from the removals and alterations except where described to be reused or handed over, as well as old rubbish, etc must regularly be carted from the site and not be allowed to accumulate on or around the site. None of the old materials are to be used for new work except where specifically described as to be handed over by the contractor to the Employer. Such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor shall obtain an official receipt listing the materials or articles and dates of handing over. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Employer for the full replacement value thereof which amount will be deducted from any monies due to the contractor</p>				
<p>Credit for old materials</p>				
<p>Credit for old materials, if so desired, is to be allowed for in the item rates and indicated at the end of each relevant item , thus (Total credit R.....).</p>				
<p>Rates must be shown in full and extended and not lumped.</p>				
<p>The Employer reserve the right to keep any or all of the old materials described in the bill of quantities irrespective of such materials having been priced or not at the rates indicated against the respective items.</p>				
<p><u>TRADE NAMES</u></p>				
<p>Where an item is referred to by a Trade name or catalogue number, it may be replaced by another product of equal quality with the prior approval of the Principal Agent.</p>				
<p style="text-align: right;">Carried Forward</p>				
<p>Section No.2 Bill No.1 DEMOLITIONS, REMOVALS AND ALTERATIONS</p>				R

Brought Forward				R
<u>DEMOLITIONS, ETC</u>				
<u>Demolishing and removing</u>				
Single storey building(toilet) 1200 x 1400 mm on plan and 2700mm high at eaves, comprising of two gable ends, reinforced foundations, unreinforced concrete surface bed, 230mm external walls, 110mm internal walls, corrugated iron roof sheets and timber structure. Including carting away of all material at a designated area chosen by the client.	No		1	
Covered parking 10000 x 4500 mm consisting of square tube steel columns and corrugated steel roof sheeting and steel purlins.	No		1	
<u>TEMPORARY BARRIERS ,SCREENS, ETC</u>				
Temporary barriers, screens, etc including removal				
Dust screen 2500mm high between concrete floor and suspended ceiling formed of suitable timber framing and polyethylene sheeting stapled on including corners, ends, etc	m		2	
<u>REMOVAL OF EXISTING WORK</u>				
Breaking down and removing concrete including finishes, etc				
Strip footings, basis, etc	m ³		1	
Steps and landings	m ³		1	
Surface bed, ramps, shower tray, etc.	m ³		1	
Breaking up and removing reinforced concrete, including cutting off and removing reinforcement etc				
Surface bed	m ³		1	
Lift and removing pre-cast concrete including bedding, etc				
60mm Interlocking paving	m ²		2	
Breaking down and removing brickwork including finishes, etc				
Half brick walls	m ²		2	
One brick walls	m ²		2	
One and a half brick walls	m ²		3	
Carried Forward				R
Section No.2				
Bill No.1				
DEMOLITIONS, REMOVALS AND ALTERATIONS				

Brought Forward			R
Taking out and removing doors, windows, etc from partitioning to be demolished			
Timber door and aluminium frame 813 x 2032mm high	No	1	
Window panel, size 1103 x 1660mm high overall comprising of two fixed panes size 1103 x 595mm; and two fixed panes 1103 x 1065mm high.	No	1	
Taking out and removing doors, windows, etc from brickwork to be demolished			
Timber door and steel frame 813 x 2032mm high from half brick wall	No	2	
Timber door and steel frame 813 x 2032mm high with 813 x 800mm glass pannelled louvre over from half brick wall	No	1	
Glazed steel window frame 1500 x 600mm high from one brick wall	No	1	
Taking out and removing doors, etc and prepare frame for new door			
Timber door from aluminium frame 813 x 2032mm high overall	No	1	
Timber door from steel door frame 813 x 2032mm high	No	1	
Taking out and removing 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)			
Glazed steel window 1510 x 1550mm high from one brick wall	No	2	
Glazed steel window 1200 x 950mm high from one brick wall	No	2	
Taking out and removing doors, etc including thresholds, sills, etc and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)			
Timber single door and frame 813 x 2032mm high from half brick wall	No	1	
Timber single door and frame 813 x 2032mm high from one brick wall	No	1	
Timber double door and frame 1613 x 2032mm high from one brick wall	No	1	
Taking down and removing roofs, floors, panelling, ceilings, partitions, etc			
Steel roof sheeting from timber or steel trusses including ridge, flashings, etc	m ²	3	
Concrete tiles from timber or steel trusses including ridge, flashings, etc	m ²	2	
150 x 150mm Sheet iron eaves gutter	m	2	
100 x 75mm Sheet iron down pipe	m	2	
15 x 300mm Fibre cement or timber fascia and barge boards	m	4	
6.4mm Nailed up ceilings including brandering cornices, etc	m ²	4	
Carried Forward			R
Section No.2			
Bill No.1			
DEMOLITIONS, REMOVALS AND ALTERATIONS			

		Brought Forward		R
9.5mm Suspended ceiling including framework, cornices, etc	m ²	2		
Drywall, timber, etc partitioning 2800mm high and make good finishes	m	1		
Vertical bulkhead not exceeding 500mm high	m	1		
Aluminium glazed shopfronts including doors 2500mm high	m	2		
Taking out sundry carpentry items, etc				
19 x 75mm Timber skirting and quadrants	m	2		
19 x 75mm Timber skirting and quadrants to treads and risers	m	2		
19 x 150mm Timber capping over power skirtings	m	2		
Timber cornice	m	2		
Taking out and removing sundry joinery work				
Existing timber wall shelving, brackets, cleats, etc not exceeding 300mm wide	m	1		
600mm Wide x 2800mm high built in cupboard complete with doors, shelving, etc	m	3		
Soft board pinning boards including timber framing around	m ²	3		
Notice, white boards, etc 1200 x 900mm high	No	2		
Taking up and removing vinyl floor coverings, carpeting, etc and prepare screed for new carpet or ceramic tiles (elsewhere)				
Vinyl tile floor tile covering including skirtings and preparing screed for new ceramic tiles covering	m ²	2		
Carpet tile floor covering and preparing screed for new carpet tiles	m ²	1		
Parquet wood flooring including skirtings, etc for new carpet tiles	m ²	2		
Remove existing wallpaper to walls and prepare surfaces to receive new paint, etc including skim coat plaster	m ²	1		
Ironmongery sundries				
Remove existing curtain tracks, rails, vertical louvres, etc	m	2		
Remove existing towel rails, toilet paper holders, etc	No	3		
Remove existing signage and fire signage signs 190 x 190mm	No	1		
Taking out and removing sundry metal work				
Steel burglar bars fixed to walls, etc	m ²	3		
		Carried Forward		R
Section No.2				
Bill No.1				
DEMOLITIONS, REMOVALS AND ALTERATIONS				

		Brought Forward		R
Steel security grilles size 1800 x 1200mm high	No		2	
Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds plaster, etc				
50mm Granolithic on floors	m ²		2	
50mm Granolithic from treads and risers of stairs	m ²		3	
30mm Screed on floors	m ²		2	
50mm Screed on floors	m ²		1	
Internal plaster from walls and columns	m ²		2	
Internal plaster from ceilings and beams	m ²		3	
Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes				
Tiles to floors including skirtings	m ²		1	
Tiles to treads and risers in narrow widths	m ²		1	
Tiles to walls	m ²		1	
Tile skirting 150mm high	m ²		1	
Hacking up/off and removing porcelain tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes				
Tiles to floors including skirtings	m ²		2	
Tiles to walls	m ²		3	
Tiles to walls in narrow widths	m ²		1	
Tile skirting 150mm high	m ²		1	
Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and prepare for new (elsewhere) and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
PVC piping not exceeding 50mm diameter	m		2	
PVC piping exceeding 50mm but not exceeding 100mm diameter	m		1	
Copper piping not exceeding 50mm diameter	m		3	
		Carried Forward		R
Section No.2				
Bill No.1				
DEMOLITIONS, REMOVALS AND ALTERATIONS				

		Brought Forward		R
Copper piping exceeding 50mm but not exceeding 100mm diameter	m		1	
1500mm x 530mm Stainless steel double bowl sink and unit complete including taps, etc	No		2	
920mm x 530mm Stainless steel single bowl sink and unit complete including taps, etc	No		2	
Vitreous china WC pan with cistern	No		1	
Vitreous wall urinal and cistern	No		1	
Vitreous china wash hand basin	No		1	
Taking out and removing glass and mirrors				
Remove existing mirror size 600 x 600mm	No		1	
Glass from steel windows including cleaning out rebates and preparing for new glass	m ²		1	
Cutting through floors and ceilings				
Core drill 100mm diameter hole through 250mm reinforced concrete slab	m2		1	
Hole through one brick wall plastered both sides including making good for 110mm diameter pipe	No		1	
Hole through one brick wall plastered both sides including making good for 50mm diameter pipe				
Breaking out for and forming openings through brick walls for new doors and frames including necessary building up of ramps, precast concrete lintels and making good plaster on both sides and into reveals and with 85mm concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)				
Opening for 813 x 2032mm high door through half brick wall	No		2	
Opening for 813 x 2032mm high door through one brick wall	No		2	
Opening for 1511 x 2032mm high door through one brick wall	No		2	
Breaking out for and forming openings through brick walls for new doors and frames including necessary building up of ramps, precast concrete lintels and making good plaster on one side and face brickwork on other side and into reveals and with 85mm concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)				
Opening for 813 x 2032mm high door through half brick wall	No		2	
Opening for AC sleeve 600 x 450mm high through one brick wall	No		2	
		Carried Forward		R
Section No.2				
Bill No.1				
DEMOLITIONS, REMOVALS AND ALTERATIONS				

Brought Forward			R
Extra over bulk excavation in earth for excavation in			
Soft rock	m ³	1	
Hard rock	m ³	1	
Risk of collapse of excavations			
Sides of bulk excavations not exceeding 1,5m deep	m ²	3	
Extra over all excavations for carting away			
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	4	
Keeping bulk excavations free of water			
Keeping excavations free of water	Item	1	
Imported filling G5 material supplied by the contractor and compacted to 98% Mod AASHTO density in 150mm thick layers			
To platforms	m ³	1	
Protection against termites			
Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m ³	1	
Prescribed density tests on filling			
Modified AASHTO Density test	No	1	
Carried Forward to sectional summary			R
Section No.2			
Bill No.2			
EARTHWORKS (PROVISIONAL)			

		Brought Forward		R
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
25MPa/20mm Concrete				
Strip footings	m ³		1	
Column bases	m ³		1	
Raft slab and beams	m ³		1	
In ramps	m ³		1	
Surface beds cast in panels on waterproofing (elsewhere measured)	m ³		1	
Thickening out surface beds including excavation	m ³		1	
In steps	m ³		1	
<u>TEST BLOCKS</u>				
Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No		1	
<u>CONCRETE SUNDRIES</u>				
Finishing top surfaces of concrete smooth with a wood float				
Surface beds, slabs etc	m ²		1	
Surface beds, slabs, etc to falls and currents	m ²		1	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
Rough formwork to sides				
Edge of slabs not exceeding 300mm high	m		2	
Edge of steps, risers, surface beds, etc not exceeding 300mm high	m		2	
<u>MOVEMENT JOINTS ETC</u>				
10mm Softboard in vertical expansion joint not exceeding 300mm wide including out top section 10mm deep and filling with bituminous compound	m		1	
Two layers 375micron dpc slip joint not exceeding 300mm wide	m		1	
<u>REINFORCEMENT (PROVISIONAL)</u>				
Mild steel reinforcement to structural concrete work				
8mm Diameter bars	t		0.2	
12mm Diameter bars	t		0.1	
		Carried Forward		R
Section No.2				
Bill No.3				
CONCRETE, FORMWORK AND REINFORCEMENT				

		Brought Forward		R
High tensile steel reinforcement to structural concrete work				
8mm Diameter bars	t	0.1		
12mm Diameter bars	t	0.1		
16mm Diameter bars	t	0.1		
Fabric reinforcement				
Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	1		
		Carried Forward to sectional summary		R
Section No.2				
Bill No.3				
CONCRETE, FORMWORK AND REINFORCEMENT				

	Unit	QTY	RATE	AMOUNT
<u>SECTION NO. 2</u>				
<u>BILL NO. 4</u>				
<u>PRECAST CONCRETE</u>				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
<u>SUPPLEMENTARY PREAMBLES</u>				
Sizes				
Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the architect for approval before moulds are made				
General				
Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming				
<u>CEMENT BRICK PAVING</u>				
50mm Thick SABS approved coloured cement brick paving of 112 x 224mm bricks laid to falls on 25mm sand layer with joints filled in with sand and vibrated, including all straight cutting including approved weedkiller	m ²	5		
<u>INTERLOCKING PRECAST CONCRETE PAVING</u>				
60mm Thick grey interlocking precast concrete paving blocks with butt joints on and including 20mm thick river-sand bedding treated with weedkiller and with clean sand swept into joints.	m ²	5		
Extra over for circular cutting to 60mm thick precast concrete paving blocks	m	5		
Carried Forward to sectional summary				R
Section No.2				
Bill No.4				
PRECAST CONCRETE				

		Brought Forward		R
<u>BRICKWORK SUNDRIES</u>				
Brickwork reinforcement				
75mm Wide reinforcement built in horizontally	m	3		
150mm Wide reinforcement built in horizontally	m	3		
Prestressed fabricated lintels				
110 x 75mm not exceeding 3m Lintels	m	2		
110 x 75mm exceeding 3m but not exceeding 4.5m Lintels	m	3		
Turning pieces				
110mm Wide turning piece to lintels etc	m	3		
220mm Wide turning piece to lintels etc	m	1		
Bonding to existing				
Cutting toothings and bonding new brickwork to existing	m ²	1		
Galvanised hoop iron cramps, ties, etc				
30 x 1,6mm Roof tie 1500mm long with one end fixed to timber and other end built into brickwork	No	3		
30 x 1,6mm Wall tie 1500mm long with one end shot pinned to concrete and other end build into brickwork	No	2		
<u>FACE BRICKWORK</u>				
Approved FBS face bricks (PC Sum of R 4500.00/1000 delivered to site) built in stretcher bond and pointed with square recessed horizontal and vertical joints, including fair cutting , angles, etc				
Extra over brickwork for face brickwork	m ²	3		
Extra over brickwork for face brickwork in foundation walls, ramp, etc	m ²	2		
Face brick-on-edge flat lintel course 220mm wide pointed on soffit and both sides	m	4		
Cut face brick-on-edge external window cill, 150mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	2		
		Carried Forward to sectional summary		R
Section No.2				
Bill No.5				
MASONRY				

	Unit	QTY	RATE	AMOUNT
<u>SECTION NO. 2</u>				
<u>BILL NO. 6</u>				
<u>WATERPROOFING</u>				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
One layer of 375 micron DPC embossed damp proof course				
In walls	m ²	1		
Vertical in walls	m ²	1		
One layer of 250 micron green waterproof sheeting sealed at laps with tape				
Under surface beds, raft foundations, paving, etc	m ²	1		
<u>DAMPPROOFING OF FLAT ROOFS, ETC</u>				
Preparation				
Remove existing flat roof waterproofing to receive new (elsewhere) and prepare screed as per manufacturer's instruction	m ²	1		
Ditto in turnups, turndowns, edges, etc in narrow widths	m ²	1		
Sundries				
Circular cutting to waterproofing	m	1		
Dress waterproofing into 150mm pipe outlet	No	1		
<u>PROTECTIVE STONE DRESSING</u>				
19mm Crushed stone dressing evenly spread with larger stones around outlets				
25mm Thick on waterproofing to flat roofs	m ²	1		
<u>JOINT SEALANTS ETC</u>				
Compriband bitumen impregnated foam plastic joint sealing strips				
6 x 10mmmm In joints between frames and walls	m	1		
Silicone sealing compound including backing cord, bond breaker, primer, etc				
6 x 15mm In expansion joints	m	1		
Carried Forward to sectional summary				R
Section No.2				
Bill No.6				
WATERPROOFING				

	Unit	QTY	RATE	AMOUNT
<p><u>SECTION NO. 2</u></p>				
<p><u>BILL NO. 7</u></p>				
<p><u>ROOF COVERINGS, ETC</u></p>				
<p>NOTE: For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p>Roof Covering</p>				
<p>The roof coverings shall be interlocking concealed-fix profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Z275 commercial quality galvanized steel. The profile shall be roll-formed with three ribs at centres not exceeding 203mm and a cover width not exceeding 406mm. These will include a male and female rib. When interlocked, the minimum sheet depth shall be 48mm. Each trough shall incorporate two stiffener ribs.</p>				
<p>Finish for roof sheeting</p>				
<p>The paint finish shall be a full top coat Silicone Polyester and a half coat Grey to the reverse side.</p>				
<p>Fixing of roof sheeting</p>				
<p>The sheets shall be fixed to every purlin by means of patented fixing method which will securely hold the sheets in position and lock-in both the sidelap and centre ribs. The clips shall be manufactured from Galvanised steel and shall be fixed to the steel purlins with two cadmium plated tek 3 no 10,24 x 16mm long self-drilling/tapping screws, or with NA2 annular nails to timber purlins.</p>				
<p>0,6mm Thick flashings</p>				
<p>The paint finish shall be epoxy primer of 4-6 microns with a top coat Silicone Polyester of at least 22 microns and a half coat Grey to the reverse side (Colour to be approved).</p>				
<p>Flashings shall be approved and fixed to the sheeting with clips to obviate any direct fixing perforation. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip.</p>				
<p>Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour coated areas.</p>				
<p>Carried Forward</p>				
<p>Section No.2 Bill No.7 ROOF COVERINGS, ETC</p>				R

<p style="text-align: right;">Brought Forward</p> <p>Certificate for Roof Covering</p> <p>The contractor is to submit a certificate signed by the merchant, stating that the roof covering supplied, complies with the required thickness specified</p> <p>Guarantee</p> <p>The manufacturer shall comply with ISO9002 Quality Management System. The 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 roofs by the manufacturer.</p> <p>Erection</p> <p>Every precaution shall be taken to prevent damage to roof sheets 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>Safety</p> <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>Handling and storage</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>Inspection prior to installation or erection</p> <p>Before commencing installation, the contractor shall verify that the following items have been checked and accepted:</p> <ul style="list-style-type: none"> a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted. b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances. <p style="text-align: right;">Carried Forward</p> <p>Section No.2 Bill No.7 ROOF COVERINGS, ETC</p>			<p>R</p>
			<p>R</p>

Brought Forward		R
<p>c. The corners of the roof are square and the wall framework is perpendicular or as specified.</p> <p>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.</p> <p>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.</p> <p>f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided.</p> <p>g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the Engineer before proceeding with the fixing of the cladding.</p> <p>Protrusion through sheeted surfaces</p> <p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting.</p> <p>Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation.</p> <p>Cleaning of roofs, etc.</p> <p>All debris, 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>Tiles</p> <p>420x 332mm concrete tiles nailed with non-corrosive tile nails to timber trusses</p>		
Roof covering with pitch not exceeding 25 degrees	m ²	2
Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	2
Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	2
Carried Forward		R
Section No.2 Bill No.7 ROOF COVERINGS, ETC		

Brought Forward			
Verge capping tiles to match roofing tiles fixed with non-corrosive fixing accessories	m	2	
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
0.6mm Thick concealed fix "Klip-Lok 700" or similar approved light industrial Z275 spelter galvanised steel sheeting with "Globalcoat" or similar approved finish and colour to one side, "Globalcoat Grey" or similar approved finish to other side with and including accessories fixed to timber purlins at 2000mm centres			
Roof covering with pitch not exceeding 25 degrees	m ²	1	
Brownbuilt Klip-Lok 700 or similar approved fascia external corner trim 616mm girth, three times bent along girth	m	1	
Brownbuilt Klip-Lok 700 or similar approved gable trim 550mm girth, three times bent along girth	m	1	
Brownbuilt Klip-Lok 700 or similar approved apex flashing 550mm girth, three times bent along girth and notched on site to suit roof profile	m	1	
Brownbuilt Klip-Lok 700 or similar approved headwall flashing 375mm girth, two times bent along girth and notched on site to suit roof profile	m	1	
Brownbuilt Klip-Lok 700 or similar approved counter flashing 185mm girth, two times bent along girth	m	1	
Brownbuilt Klip-Lok 700 or similar approved broad flute polyclosers to suit roof profile	m	1	
Brownbuilt Klip-Lok 700 or similar approved narrow flute polyclosers to suit roof profile	m	1	
<u>ROOF INSULATION</u>			
Sisalation 410 housing grade glass fibre reinforced aluminium foil bonded insulation			
Insulation laid taut over rafters (at approximately 1200mm centres) and fixed concurrent with roof covering, etc	m ²	1	
Carried Forward to sectional summary			
Section No.2			
Bill No.7			
ROOF COVERINGS, ETC			

	Unit	QTY	RATE	AMOUNT
<p><u>SECTION NO. 2</u></p>				
<p><u>BILL NO. 8</u></p>				
<p><u>CARPENTRY AND JOINERY</u></p>				
<p>NOTE : Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>				
<p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 126 for JBCC CPAP purposes</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p>Particle board</p>				
<p>Particle board shall comply with the following specifications:</p>				
<p>a) SABS 1300 Particle board: exterior and flooring type</p>				
<p>b) SABS 1301 Particle board: interior type</p>				
<p>Descriptions</p>				
<p>The term "planted on" shall mean the nailing of timber to timber</p>				
<p>The term "screwed on" shall mean the countersunk screwing of timber to timber</p>				
<p>The term "screwed and pelleted on" shall mean the screwing of timber to timber with the heads of screws sunk and pelleted</p>				
<p>The term "plugged" shall mean the countersunk screwing of timber to brickwork or concrete including plastic plugs</p>				
<p>The term "plugged and pelleted" shall mean the screwing of timber to brickwork or concrete including plugs with heads of screws sunk and pelleted</p>				
<p>Joinery</p>				
<p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p>				
<p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p>				
<p>Fixing</p>				
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p>				
<p style="text-align: right;">Carried Forward</p>				R
<p>Section No.2 Bill No.8 CARPENTRY AND JOINERY</p>				

Brought Forward

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 elsewhere.

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

The sizes listed are Nominal sizes for solid SA pine members

PREFABRICATED ROOFS, ETC

The following is applicable in respect of roof trusses:

a) The design, manufacture and transportation of the roof trusses, bracing, etc shall be under the control of a registered Engineer in accordance with SABS 0243. It shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent

b) Erection must be carried out as described in "The erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd and the National Timber Research, CSIR.

c) Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary and permanent bracing

d) Trusses are at the maximum centres as stated on the Architect's drawings. The roof covering is 0,60mm thick concealed fix "Klip-Lok 700" or similar approved roof sheeting on timber purlins. The references give in the description as per the roof plans and truss layout plan drawings accompanying these bill of quantities for tender purposes. The dimensions indicated on the Architects drawings of the trusses are indicative and actual measurements are to be obtained from site before design or fabrication commences. The truss construction shall include all the required gang planks, sprockets, rails for vertical cladding, bracing, brackets, bolts, etc..

e) The design of the prefabricated roof trusses, bracing and secondary members forming part of the total roof construction shall be prepared by a professional Structural Engineer (Truss System Engineer) strictly in accordance with SABS 0163 for design of timber structures

Carried Forward

Section No.2
Bill No.8
CARPENTRY AND JOINERY

R

R

		Brought Forward		R
<u>ROOF CONSTRUCTION</u>				
Prefabricated plate nailed timber roof truss construction				
Sawn softwood trusses, bracing, etc				
Typical Truss A				
Mono pitched truss construction to 12 degrees pitch comprising of 38 x 152mm SAP grade 7 rafter, 38 x 114mm SAP grade 7 tie beam, 38 x 114 SAP grade 7 webs and struts including all sprockets, bracing, gangnails, nails, nuts, washers, joints etc, approximate size 7200mm long x 3900mm high with entire truss containing 300mm eaves overhang projection on one side and 400mm overhang projection on the other side				
	No		1	
Typical Truss B				
Double pitched truss construction to 12 degrees pitch comprising of 38 x 114mm SAP grade 7 rafter, 38 x 114mm SAP grade 7 tie beam, 38 x 114 SAP grade 7 webs and struts including all sprockets, bracing, gangnails, nails, nuts, washers, joints etc, approximate size 14200mm long x 1900mm high with entire truss containing 600mm eaves overhang projection on both sides and 400mm overhang projection on the other side				
	No		1	
Rafters as Trusses				
50 x 228mm Grade 7 SAP rafters in lengths exceeding 6600mm laid to 3 degree pitch and set as truss and hanging one end on wall with and including angle brackets including all sprockets, bracing, gangnails, nails, nuts, washers, joints etc, with entire truss containing 300mm eaves overhang projection on one side and 300mm overhang projection on the other side				
	m		1	
Sawn softwood (Grade 7)				
38 x 114mm Wall plates				
	m		1	
52 x 76mm Purlins				
	m		1	
52 x 76mm Wrot soft wood (Grade 7) purlins				
	m		1	
76 x 76mm Splay cut purlins				
	m		1	
Sawn softwood (Grade 7)				
50 x 228mm Rafters in lengths not exceeding 2400mm				
	m		1	
50 x 228mm Rafters in lengths exceeding 3900mm and not exceeding 6600mm				
	m		1	
50 x 228mm Rafters in lengths exceeding 6600mm				
	m		1	
50 x 228mm Rafters as beams in lengths exceeding 3900mm and not exceeding 6600mm				
	m		1	
		Carried Forward		R
Section No.2				
Bill No.8				
CARPENTRY AND JOINERY				

	Brought Forward			R
Design, supply, deliver ,temporarily store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m ²	1		
Sundries				
Two coats creosote on sawn timbers	m ²	1		
Splay end of 38 x 152mm rafter down to 38 x 114mm	No	1		
Splay end of 50 x 228mm rafter down to 50 x 114mm	No	1		
2.5mm Diameter galvanised wire tie 700mm girth wrapped around rafter and purlins with ends tied together	No	1		
<u>EAVES, VERGES, ETC</u>				
Pressed-fibre cement				
12 x 250mm Barge boards including galvanised steel H-profile jointing strips	m	1		
15 x 250mm Fascia boards including galvanised steel H-profile jointing strips	m	1		
<u>DOORS, ETC</u>				
40mm Thick semi-solid flush panel doors with commercial veneer both sides suitable for painting and hung to steel, aluminium, timber frames				
Door, size 813 x 2032mm high	No	1		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	1		
40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
Door, size 813 x 2032mm high	No	1		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	1		
40mm Thick solid flush panel doors with commercial veneer both sides suitable for painting and hung to steel, aluminium, timber frames				
Door, size 813 x 2032mm high	No	1		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	1		
	Carried Forward			R
Section No.2				
Bill No.8				
CARPENTRY AND JOINERY				

		Brought Forward		R
Wrot Meranti				
44mm Thick solid door suitable for varnish or painting and hung to steel, aluminium or timber frames				
Door, size 813 x 2032mm high	No		1	
Double door in two leaves with rebated meeting stiles, size 1510 x 2032mm high	No		1	
<u>FRAMED FRAMES, ETC</u>				
Wrot meranti frames				
44 x 100mm Rebated frames plugged	m		1	
<u>SKIRTINGS</u>				
Wrought Meranti				
19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m		1	
<u>JOINERY FITTINGS, ETC</u>				
<u>WORKTOPS</u>				
Melamine faced board				
32mm Tops size 300mm wide x 1250mm long with bull nose along one long edge	m		1	
32mm Tops size 600mm wide x 1250mm long with bull nose along one long edge	m		1	
Formica or similar approved				
600 x 16mm thick counter including support structure screwed to walls	m		1	
<u>CUPBOARDS</u>				
Melawood or simmlar approved melamine faced particle board				
16mm cupboard doors	m2		3	
16mm Tops, shelves, sides, divisions, etc	m2		3	
16mm Adjustable shelving	m2		2	
Drawer 300 x 300 x 150 mm deep overall of 16mm edged sides and back, 401 x 192 x 16mm "Supawood" front cover panel and 3 mm tempered hardboard bottom	No		1	
		Carried to sectional summary		R
Section No.2				
Bill No.8				
CARPENTRY AND JOINERY				

	Unit	QTY	RATE	AMOUNT
<u>SECTION NO. 2</u>				
<u>BILL NO. 9</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
<u>CEILING INSULATION</u>				
Aerolite insulation				
50mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m ²	2		
<u>NAILED UP CEILINGS</u>				
6,4mm Gypsum plasterboard ceilings including 38 x 38mm sawn softwood brandering at 450mm centres in one direction in 900mm board widths with metal joints and fixed as recommended by the manufacturer				
Horizontal ceilings to timber trusses	m ²	2		
Gypsum coved cornice				
75mm Fixed to ceilings	m	5		
Trapdoors				
600 x 600mm Trap door	No	1		
9,5mm Gypsum plasterboard ceilings including 38 x 38mm sawn softwood brandering at 300mm centres in one direction in 900mm board widths with 63mm wide strips of mesh scrim nailed over joints and the whole finished with gypsum 6mm skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer				
Horizontal ceilings to timber trusses	m ²	4		
Extra over gypsum plasterboard ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	1		
Shadow line wall angle cornices to suspended ceilings				
25mm recessed wall angle plugged	m	3		
Carried Forward				R
Section No.2				
Bill No.9				
CEILINGS, PARTITIONS AND ACCESS FLOORING				

		Brought Forward		R
<u>SUSPENDED CEILINGS</u>				
1200 x 600 x 12,7mm "Fissured Vinyl Clad Gypsum Ceiling Board" acoustic panels fitted in and including "Rondo" standard faced exposed grid suspension system including main and cross tees, necessary hangers, grids, etc				
Ceilings suspended not exceeding 1m below concrete slabs, timber trusses, etc	m ²		1	
Sundries				
Vertical bulkhead not exceeding 500mm high	m		1	
Shadow line wall angle cornices to suspended ceilings				
60mm Girth pre-painted cornices plugged	m		1	
Sundries				
Allow for light fitting openings, cutting, etc in suspended ceilings	No		5	
<u>PARTITIONS</u>				
Rhino-Drywall or equivalent partitioning shall comprise of steel studding formed of 63,5mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop riveted to the top and bottom tracks with similiar additional vertical studs as necessary at abutments, ends, etc. and covered as described with wallboard screwed to studding with "Drywall" screws at maximum 220mm centres. Boards are to butt jointed and finished with "Rhinotape" and "Readymix D" jointing compound all in accordance with the manufacturer's instructions. intersections and abutments are measured seperately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc.				
Note: Wall paper and/or paint and varnish finishes are measured elsewhere				
Partitioning 3000mm high with bottom and top tracks plugged	m		1	
Extra over partition 3000mm high for vertical abutment	No		2	
Extra over partition for for door opening 813 x 2032mm high including natural anodised aluminium door frame with one pair of 100mm nylon washered aluminium hinges for timber door (elsewhere)	No		1	
Ditto for double door opening 1610 x 2032mm high, ditto	No		3	
Extra over partition for viewing panel size 1800 x 1200mm high including natural anodised aluminium window frame with 6mm laminated glass glazing	No		1	
<u>GYPWALL FIRESTOP 51/F60S42 PARTITIONING SYSTEMS</u>				
Partitioning 3000mm high with bottom and top tracks plugged	m		1	
Extra over partition 3000mm high for vertical abutment, tee, corner, etc	No		1	
<u>SKIRTINGS, ETC</u>				
4 x 100mm High aluminium skirtings	m		3	
		Carried to sectional summary		R
Section No.2				
Bill No.9				
CEILINGS, PARTITIONS AND ACCESS FLOORING				

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 10				
FLOOR COVERINGS				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
FLOOR COVERINGS				
SKIRTINGS, NOSINGS, ETC				
Dinac Genesis				
ISBA B1 68 x 27mm Aluminium stair nosing	m	1		
50 x 50mm Aluminium angle edging to treads and risers of stairs	m	1		
500 x 500mm "Nexus Beberpoint 920 - Azure" or similar approved(P.C allowance of R 200.00/m2 excluding VAT but includes delivery to site) laid complete as per manufacturer's instructions including brass trimmings, edging, beads, etc				
On floors	m ²	1		
On treads and risers of stairs	m ²	1		
300 x 300 x 2,5mm semi-flexible or similar approved vinyl tiles manufactured to SABS specification (allow a P.C allowance of R 120.00/m2 excluding VAT but includes delivery to site)				
On floors	m ²	1		
On treads and risers of stairs	m ²	1		
Carried Forward				R
Section No.2 Bill No.10 FLOOR COVERINGS				

	Unit	QTY	RATE	AMOUNT
<u>SECTION NO. 2</u>				
<u>BILL NO. 11</u>				
<u>IRONMONGERY</u>				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
<u>SUPPLEMENTARY PREAMBLES</u>				
Finishes to ironmongery				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:				
BS Satin bronze lacquered CH Chromium plated				
SC Satin chromium plated				
SE Silver enamelled				
GE Grey enamelled				
AS Anodised silver				
AB Anodised bronze				
AG Anodised gold				
ABL Anodised black				
PB Polished brass				
PL Polished and lacquered				
PT Epoxy coated				
SD Sanded				
<u>HINGES, BOLTS, ETC</u>				
Union or similar				
37651LH Indicator bolt	No	1		
Paraplegic type ditto	No	1		
ART 208C91 Flush bolt 150mm	No	1		
			Carried Forward	R
Section No.2				
Bill No.11				
IRONMONGERY				

	Brought Forward			R
<u>CATCHES, CABIN HOOKS, ETC</u>				
Union or similar				
AL8721AS Union aluminium hat & coat hook	No		1	
<u>LOCKS</u>				
Note: Locks to be suitable for and master and sub master key systems				
Union or similar approved				
50mm Padlock	No		1	
Door lock	No		1	
Cylinder profile lock	No		1	
Dead bolt lock 35mm	No		1	
Stainless steel striker plate for double rebated doors	No		2	
Escutcheon profile	No		2	
Escutcheon plate	No		3	
Dust proof strike	No		1	
Lock plate	No		4	
Bathroom lockset with striking plate fixed to metal	No		1	
Two lever lockset	No		1	
Three lever lockset	No		1	
Four lever lockset	No		2	
Sundries				
Masterkey	No		1	
<u>HANDLES</u>				
Union or similiar				
Pull handle	No		1	
200mm Pull handle	No		1	
Push plate blank	No		1	
Push plate	No		1	
	Carried Forward			R
Section No.2				
Bill No.11				
IRONMONGERY				

	Brought Forward		R
Pull handle on back plate	No	1	
Circular pull handle on 150 x 150 x 3mm thick backplate	No	1	
Handle on back plate	No	1	
<u>PUSH PLATES AND KICKING PLATES</u>			
Natural Anodised aluminium			
800 x 200mm high kick or push plate plate	No	1	
<u>LETTERS, NAMEPLATES, PUSHPLATES, ETC</u>			
Assa Abloy' or other similar approved			
150 x 150mm engraved aluminium "Electrical" indicator plate	No	1	
150 x 150mm engraved aluminium "Fire hose" indicator plate	No	1	
150 x 150mm engraved aluminium "male" indicator plate	No	1	
150 x 150mm engraved aluminium "female" indicator plate	No	1	
150 x 150mm engraved aluminium "Disabled" indicator plate	No	1	
152 x 152mm engraved aluminium "male & female" indicator plate	No	1	
Standard statutory signage set in bronze anodised aluminium frame with red fields on white field fixed to plastered or facebrick wall with tamper proof screws			
150 x 150mm indicator plate reference S36 / F28 (with extinguisher symbol)	No	1	
190 x 384mm indicator plate reference S4 / E4 (with exit and arrow symbol)	No	1	
1.6mm thick Natural anodised plates with and including 65mm high black Swiss 721 engraved letters fixed to wall above doors with tamper proof screws			
Nameplate 80 x 300mm with five and not exceeding ten numerals or letters	No	1	
Nameplate 80 x 300mm with ten and not exceeding fifteen numerals or letters	No	1	
Nameplate 80 x 400mm with fifteen and not exceeding twenty numerals or letters	No	1	
<u>BATHROOM FITTINGS</u>			
Nampak or similar			
Recessed toilet paper roll holder manufactured from 0.8mm thick 18/10 stainless steel with a single piece pressed lid, welded container and cylinder lock with a franke standard key- SATIN finish. FSA Code: 359809 or similar approved	No	1	
	Carried Forward		R
Section No.2			
Bill No.11			
IRONMONGERY			

Brought Forward			R
Stainless steel paper towel dispenser plugged installed to manufacturer's specifications	No	1	
120 x 210 x 112mm stainless steel liquid soap dispenser	No	1	
266 x 257 x 230mm high Surface mounted splash proof electronic hand-drier, including connecting to electrical (electrical connection elsewhere measured)	No	1	
Stainless steel			
Vaal 2No 32mm stainless steel grab rails	No	1	
Vaal 2No 32mm stainless steel back horizontal grab rails	No	1	
Stainless steel corner protectors			
50mm x 50mm x 1,2mm thick corner protectors pugged and screwed to walls four times 1200mm high	No	1	
90mm x 90mm x 1,2mm thick corner protectors screwed to walls four times 1200mm high	No	1	
<u>DOOR CLOSERS</u>			
Union or similar			
DC500 Cam action closer EN1-4SIL	No	1	
DC477H0 Cam action floor spring EN2-4HO	No	1	
<u>SUNDRIES</u>			
Union or similar			
38mm Diameter rubber door stop	No		
S/S Hat and Coat Hook rubber buffer.	No		
S/S Hat and Coat Hook	No		
<u>KEY CABINETS, ETC</u>			
300 x 220 x 60mm Key cabinet	No		
Standard powder coated first aid metal box overall size 520 x 360 x 155mm high fixed to wall	No		
Standard fire escape key box plugged to wall	No		
Carried Forward			R
Section No.2			
Bill No.11			
IRONMONGERY			

		Brought Forward		R
<u>STEEL LOCKERS</u>				
Greenfield or similar approved epoxy powder coated mild steel lockers				
Locker, size 300 x 450 x 1800mm high four times bolted to brickwork or concrete	No			
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
Vitrex or similar approved				
12mm Thick pinning board 1500 x 1200mm high with 19mm quarter round frame and durable cloth covering, plugged to brick wall	No			
White magnetic writing board 1800 x 1200mm high with and including aluminium rail plugged to wall	No		1	
<u>DRAPES, BLINDS, ETC</u>				
Windovert Nickel HD 9184 or similar approved aluminium venetian blind, with 25 x 0,21mm thick slats including 25 x 25mm high matching aluminium powder coated top and bottom tracks with stainless steel separator pins, cordlock and roller pins, blinds to be fitted inside reveal to concrete lintel.				
Blinds in suitable widths to suit window, size 600 x 1200mm high	No		1	
Blinds in suitable widths to suit window, size 600 x 1500mm high	No		1	
		Carried to sectional summary		R
Section No.2 Bill No.11 IRONMONGERY				

	Unit	QTY	RATE	AMOUNT
<u>SECTION NO. 2</u>				
<u>BILL NO. 12</u>				
<u>METALWORK</u>				
NOTE: For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
<u>STRUCTURAL STEELWORK</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
Descriptions				
Descriptions of bolts shall be deemed to include nuts and washers				
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.				
<u>METALWORK</u>				
<u>WELDED SCREENS, GATES, ETC</u>				
Gates				
Single gate 860 x 2180mm high				
Double gate 1650 x 2180mm high				
	No	1		
Window burglar bar screens				
	No	1		
Refer to drawings attached at the back of these bills of quantities for details to burglar bars which is to be made up and fixed in position complete				
Ditto size 900 x 900mm high overall				
	No	1		
Ditto size 1200 x 900mm high overall				
	No	1		
Carried Forward				R
Section No.2				
Bill No.12				
METALWORK				

Brought Forward			R
<u>PRESSED STEEL DOOR FRAMES</u>			
1,6mm Double rebated frames suitable for half brick walls			
Frame for door 813 x 2032mm high with two 100mm steel hinges per leaf	No	1	
Frame for door 1626 x 2032mm high with three 100mm steel hinges per leaf	No	1	
1,6mm Double rebated frames suitable for one brick walls			
Frame for door 813 x 2032mm high with two hinges	No	1	
Frame for door 1626 x 2032mm high with three 100mm steel hinges per leaf	No	1	
<u>STEEL WINDOWS, DOORS, ETC</u>			
Standard residential type steel windows			
Window E4 size 1511 x 645mm high	No	1	
Window ES7 size 1022 x 654mm high	No	1	
Window E1 size 533 x 654mm high	No	1	
<u>ALUMINIUM WINDOWS, DOORS, ETC.</u>			
<u>ALUMINIUM WINDOWS</u>			
Aluminium windows of aluminium extrusion alloy 6063 or 6261 in temper T5 or T6 to comply with BS1474.			
Finish to be epoxy powder coated aluminium to SABS standards and approved approved standard colour range			
Prices to include for glazing as specified, fitting in position and sealing watertight all round (Refer to window schedules attached to these bills of quantities)			
Aluminium work to be manufactured and installed in accordance with the standards and norms as prescribed by the association of architectural aluminium manufacturers of South Africa. Contractors to issue a certification on completion that these standards has been complied to.			
Epoxy powder coated aluminium purpose made window complete with frames, subframes, ironmongery including glazing as per window schedule and fixed to brickwork or concrete and sealed water tight all round			
Window panel, size 1500 x 1530mm high overall comprising of two fixed panes, size 750 x 595mm high; and two side hung panes size 750 x 935mm high.	No	1	
Window panel, size 1200 x 595 high overall comprising of two top hung panes size 600 x 595mm high.	No	1	
Carried Forward			R
Section No.2			
Bill No.12			
METALWORK			

	Brought Forward			R
Window panel, size 600 x 1530mm high overall comprising of one fixed pane size 600 x 595mm and one top hung pane size 600 x 595mm high.	No		1	
Window panel, size 600 x 595mm high overall comprising of one side hung pane.	No		1	
Window panel, size 600 x 1530mm high overall comprising of one fixed pane size 600 x 595mm; and one side hung pane 600 x 935mm high.	No		1	
Wispeco or similiar or other approved natural anodised aluminium doors, sidelights and fanlights glazed with 6mm toughened laminated safety glass and plugged to brickwork or concrete and sealed watertight all round				
Single door size 900 x 2720mm high 00mm high fixed ganlight over	No		1	
Double door 1613 x 2100mm high with 700mm high fixed ganlight over	No		1	
Section No.2 Bill No.12 METALWORK	Carried to sectional summary			R

	Brought Forward		R
<u>EXTERNAL PLASTER</u>			
Cement plaster on brickwork			
On walls	m ²	7	
On walls in narrow widths	m ²	5	
Cement plaster on concrete			
On soffits of concrete slabs	m ²	4	
On soffits of concrete slabs to existing	m ²	5	
Two coat plaster on brickwork			
On walls	m ²	5	
On walls in narrow widths	m ²	3	
Rough cast plaster on brickwork			
On walls	m ²	2	
On walls in narrow widths	m ²	6	
Fine rough cast plaster on brickwork			
On walls	m ²	5	
On walls in narrow widths	m ²	8	
Carried to sectional summary			
Section No.2			R
Bill No.13			
PLASTERING			

		Brought Forward		R
Sundries				
15 x 15 x 2mm Aluminium Edge strip	m		4	
U-Shaped aluminium expansion joint strip in tiling	m		5	
<u>WALL TILING</u>				
300 x 450 x 8mm Glazed ceramic tiles of an approved colour, allow the sum of R 180.00 per m2 ex factory/supplier fixed with adhesive to plaster (elsewhere) on brickwork or concrete and pointed with matching cement grout				
On walls	m ²		5	
On narrow widths	m ²		6	
200 x 200 x 6mm Glazed ceramic tiles of an approved colour, allow the sum of R 140.00 per m2 ex factory/supplier fixed with adhesive to plaster (elsewhere) on brickwork or concrete and pointed with matching cement grout				
On walls	m ²		7	
On narrow widths	m ²		5	
		Carried to sectional summary		R
Section No.2				
Bill No.14				
TILING				

	Unit	QTY	RATE	AMOUNT
<p><u>SECTION NO. 2</u></p>				
<p><u>BILL NO. 15</u></p>				
<p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p>				
<p>NOTE:</p>				
<p>For Preambles see the Model Preambles for Trades 1999 edition published by the Association of South African Quantity Surveyors</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p>Vitrified clay pipes etc</p>				
<p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p>				
<p>uPVC pipes and fittings</p>				
<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>				
<p>uPVC pressure pipes and fittings</p>				
<p>Pipes for water supply shall be of the class stated</p>				
<p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p>				
<p>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>				
<p>Copper pipes</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. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p>				
<p>Reducing fittings</p>				
<p style="text-align: right;">Carried Forward</p>				
<p>Section No.2 Bill No.15 PLUMBING AND DRAINAGE (PROVISIONAL)</p>				R

<p style="text-align: right;">Brought Forward</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>Wire gratings</p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p>Exposed concrete surfaces</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> <p>Excavations</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>Laying, backfilling, bedding, etc of pipes</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:</p> <p>SABS 1200 L : Medium-pressure pipelines</p> <p>LD : Sewers</p> <p>LE : Stormwater drainage</p> <p>Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200</p> <p>DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200</p> <p>LB : Bedding (Pipes).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p style="text-align: right;">Carried Forward</p> <p>Section No.2 Bill No.15 PLUMBING AND DRAINAGE (PROVISIONAL)</p>			<p>R</p>
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Brought Forward				R
Flush pans				
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary				
Stainless steel basins, sinks, wash troughs, urinals, etc				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable				
Waste unions				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings				
<u>RAINWATER DISPOSAL</u>				
0.6mm Galvanised sheet iron with "Chromadek" or similar approved finish one side				
100 x 125mm Eaves gutters with beaded front edge	m		5	
Extra over eaves gutter for corner	No		2	
Extra over eaves gutter for angle	No		3	
Extra over eaves gutter for outlet for 100 x 75mm diameter pipe	No		2	
100 x 75mm Rainwater down pipes	m		2	
Extra over rainwater pipe for 500mm eaves offset	No		4	
Extra over rainwater pipe for shoe	No		5	
Fullbore cast iron outlets				
110mm 90 Degree side outlet	No		6	
uPVC pipes				
110mm Diameter rainwater pipes fixed to concrete columns	m		6	
50mm Diameter x 300mm long spout pipe	No		8	
Extra over for uPVC for fittings				
110mm Bend	No		10	
<u>STORMWATER DRAINAGE</u>				
Work in connection with existing				
Search, locate and break into existing manhole or stormwater drain for connection of new 450mm pipe, including breaking up existing benching, cast new benching to suit new configuration, making good to manhole				
	No		2	
Carried Forward				R
Section No.2				
Bill No.15				
PLUMBING AND DRAINAGE (PROVISIONAL)				

Brought Forward			R
Class 50D concrete pipes			
450mm Pipes laid in and including trenches not exceeding 1000mm deep	m	3	
Filling, etc.			
Selected fill material compacted to 90% modified AASHTO density in uniform layers and sides of pipe	m ³	3	
G7 material supplied by the contractor compacted in uniform layers to 90% modified AASHTO density	m ³	2	
Extra over all excavations for carting away			
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	2	
Excavate for and build stormwater catchpit size 600 x 600mm deep internally with one brick sides in engineering bricks on and including class 20/19 concrete floor slab 150mm thick with wire ref.193 reinforcing, benching up bottom in class 20/19 concrete with concrete finished smooth with steel float with 600 x 600mm wide cast iron stormwater grating and frame bedded elsewhere measured) into concrete surround complete, including all framework, reinforcing, backfill, compacting etc.			
Stormwater catchpit not exceeding 1000mm deep.	No	1	
Gratings, covers, etc.			
600 x 600mm Medium duty cast iron stormwater grating and frame	No	1	
Stormwater headwall			
Bellmouth shaped headwall to suit 450mm diameter pipe, overall size 3000 x 1200mm, formed of 150mm thick concrete base and 150 x 600mm deep front edge beam with Ref. 193 mesh reinforcement, splitter block at outlet 1380 x 150 x 150mm high, one brick headwall 1380 x 900mm high built around pipe and two wing walls, each 1380mm long x average 550mm high, walls finished with facings both sides and brick on edge header course on top including necessary formwork, excavation and filling, etc	No	1	
Precast concrete channels			
460 x 170mm Channels with 310 x 110mm deep segmental channel	m	1	
<u>SOIL DRAINAGE</u>			
Excavation not exceeding 2m deep for drain trenches	m ³	2	
Carried Forward			R
Section No.2 Bill No.15 PLUMBING AND DRAINAGE (PROVISIONAL)			

		Brought Forward		R
Backfilling to drain trenches compacted to 95% Mod AASHTO density	m ³		1	
19mm Crushed stone encasing to pipes	m		2	
Geofabric filter blanket wrapped around agricultural pipes with 50mm side and 300mm end laps including stitching	m		3	
Geofabric filter blanket wrapped around stone encasing with 150mm side and 300mm end laps including stitching	m		4	
Slotted uPVC agricultural pipes laid in stone encasing	m		1	
"Santar" perforated pitch fibre pipes laid in stone encasing	m		1	
UPVC				
110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m		1	
110mm Pipes laid in and including trenches not exceeding 1 m deep	m		1	
110mm Pipes laid in and including trenches exceeding 1 m not exceeding 2m deep	m		1	
UPVC				
110mm Bend	No		1	
110mm Inspection bend	No		1	
110mm Rodding eye	No		1	
110mm Inspection junction	No		1	
110mm Junction	No		1	
110mm Gulley trap with gulley head and precast surround	No		1	
Work in connection with existing				
Search, locate and break into existing manhole not exceeding 2m deep for connection of new 160mm pipe, including breaking up existing benching, cast new benching to suit new configuration, making good to manhole and all pipe fittings as necessary and concrete encasement to vertical pipe, etc.	No		1	
HDPE class 12 drain pipes, including butt welded joints, electroweld couplings and expansion joints to 'Geberit' specification in the running lengths				
110mm Pipes vertically or ramped to cleaning eyes etc	m		1	
110mm Pipes laid in and including trenches not exceeding 1 m deep	m		1	
		Carried Forward		R
Section No.2				
Bill No.15				
PLUMBING AND DRAINAGE (PROVISIONAL)				

		Brought Forward		R
160mm Diameter pipes laid in earth or earth filling not exceeding 1000mm deep	m		1	
160mm Diameter pipes laid in earth or earth filling exceeding 1000 and not exceeding 2000mm deep	m		1	
Extra over HDPE pipes for fittings				
110mm Rodding eye	No		1	
110mm Bend	No		1	
110mm Inspection bend	No		1	
110mm Inspection junction	No		1	
110mm Junction	No		1	
Excavate for and build circular manhole with 900 mm internal diameter precast concrete splay rebated rings not less than 65 mm thick in suitable widths to suit invert bedded and jointed with epoxy filled joints and reduced with factory made reducer slab, including steel polypropylene encapsulated step irons, on and including 100 mm thick reinforced concrete 20 MPa (19 mm stone) bottom with Ref No. 311 mesh reinforcement and fitted with cover and frame (cover elsewhere) cast into and including 125 mm reinforced concrete 20 MPa (19 mm stone) cover slab, steel trowelled smooth on all exposed surfaces, the bottom benched up in fine concrete 15 MPa (8 mm stone) and finished smooth in 1 :1 cement plaster around channels (channels elsewhere measured),				
Manhole not exceeding 1000mm deep to invert	No		1	
Manhole exceeding 1000 and not exceeding 2000mm deep to invert	No		1	
Sundries				
Testing drainage pipe system	Item		1	
SANITARY FITTINGS				
Stainless steel				
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/10)				
Franke-or similar				
Single bowl sink 460 x 1200mm long fitted in top (elsewhere)	No		1	
Standard double bowl sink 1850 x 650 x 1060mm high	No		1	
Vaal or similar				
Springbok 510 x 405mm White vitreous china wash hand basin with one tap hole plug, waste, plug and chain and concealed brackets	No		1	
		Carried Forward		R
Section No.2 Bill No.15 PLUMBING AND DRAINAGE (PROVISIONAL)				

Brought Forward			R
Hibiscus white 772654/772656 closed coupled vitreous china pan with P trap complete and 9 litre matching cistern and heavy duty white double flap seat	No	1	
Hibiscus code 431500/431600" paraplegic wc suite comprising pan with double flap heavy duty plastic seat and 9 litre cistern with side paraplegic side flush lever	No	1	
Lavatera White vitreous flat back wall urinal with domical grating with spreader and two hanger brackets (flushing valve elsewhere)	No	1	
<u>WASTE UNIONS ETC</u>			
Brass			
32mm Basin waste union	No	1	
38mm Urinal waste union with chromium plated dome	No	1	
38mm Sink waste union	No	1	
<u>TRAPS ETC</u>			
uPVC			
38 x 50mm Deep seal trap	No	1	
38 x 50mm Shower trap	No	1	
<u>Chromium plated</u>			
38 x 50mm Bottle trap	No	1	
<u>TAPS, VALVES, ETC</u>			
Brass (including couplings to copper piping)			
15mm Stop cock	No	1	
22mm Stop cock	No	1	
22mm Garden tap	No	1	
25mm Line strainer	No	1	
50mm Line strainer	No	1	
25mm Wheel valve	No	1	
50mm Wheel valve	No	1	
Flushmaster FM1.000 toilet flush valve	No	1	
Flushmaster FJ6.000 urinal flush valve	No	1	
Carried Forward			R
Section No.2			
Bill No.15			
PLUMBING AND DRAINAGE (PROVISIONAL)			

	Brought Forward		R
PB1.10RB vacuum breaker	No	1	
PA3.132 "Kwikflo" 400 kPa pressure reducing valve	No	1	
Cobra Watertech or similar			
15mm Code 211 Pillar tap	No	1	
15mm Code KM 2.100 self closing pillar tap	No	1	
15mm Bollostop valve	No	1	
15mm Flexi connector	No	1	
15mm "CP 166041" Sink mixer with CP extension piece and wall flange	No	1	
<u>SANITARY PLUMBING</u>			
uPVC pipes			
50mm Pipes	m	1	
110mm Pipes	m	1	
Extra over uPVC pipes for fittings			
50mm Bend	No	1	
50mm Inspection bend	No	1	
50mm Vente valve	No	1	
50mm Junction	No	1	
50mm Inspection junction	No	1	
110mm Bend	No	1	
110mm Inspection bend	No	1	
110mm Junction	No	1	
110m IE junction	No	1	
110mm IE reducing juntion	No	1	
110mm Pan connector	No	1	
110mm Two way vent valve	No	1	
Sundries			
Testing waste pipe system	Item	1	
	Carried Forward		R
Section No.2			
Bill No.15			
PLUMBING AND DRAINAGE (PROVISIONAL)			

Brought Forward				R
<u>WATER SUPPLIES</u>				
HDPE polyethelene Class 12 piping with butwelding type pressure fittings				
50mm Pipe and excavation not exceeding 1m deep	m		1	
Extra over HDPE polyethylene pipes for fittings				
50mm Fittings	No		1	
Galvanised mild steel screwed and socketed pipes and fittings				
25mm Pipes	m		1	
32mm Pipes	m		1	
Extra over galvanised mild steel pipe for fittings				
25mm Fittings	No		1	
32mm Fittings	No		1	
Class 1 copper pipes				
15mm Pipes	m		1	
22mm Pipes	m		1	
28mm Pipes	m		1	
Extra over class 0, 1 or 2 copper pipes for capillary or brass compression fittings				
15mm Fittings	No		2	
22mm Fittings	No		2	
28mm Fittings	No		5	
<u>ELECTRIC WATER HEATERS</u>				
Kwikot or similar				
100 Litre solar geyser horizontal roof mounted, with extended solar panels to roofs complete by specialist	No		1	
150 Litre solar geyser horizontal roof mounted, with extended solar panels to roofs complete by specialist	No		1	
Drip tray with overflow pipe	No		2	
10litre under basin geyser	No		1	
Carried Forward				R
Section No.2				
Bill No.15				
PLUMBING AND DRAINAGE (PROVISIONAL)				

		Brought Forward		R
Sundries				
Connect 110mm Upvc to existing including fittings	No		3	
Connect 50mm HDPE to existing water supply including fittings	No		4	
<u>FIRE APPLIANCES ETC</u>				
Everyway or similar hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No		1	
1kg Dry chemical fire extinguisher	No		2	
2,5kg Dry chemical fire extinguisher	No		2	
4,5kg Dry chemical fire extinguisher	No		2	
9kg Dry chemical fire extinguisher	No		1	
Fire Hydrant complete	No		1	
<u>TESTING</u>				
Testing water and fire pipe system	Item		1	
<u>HOLES ETC</u>				
Fair cutting and fitting of facings for pipe not exceeding 50mm diameter				
Wall facings	No		3	
Fair cutting and fitting of facings for pipe not exceeding 110mm diameter				
Wall facings	No		2	
		Carried to sectional summary		R
Section No.2 Bill No.15 PLUMBING AND DRAINAGE (PROVISIONAL)				

		Brought Forward		R
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete				
Mirror 400 x 600mm high with four screws	No		2	
Mirror 600 x 600mm high with four screws	No		1	
		Carried to sectional summary		R
Section No.2 Bill No.16 GLAZING				

		Brought Forward			R
<u>ON FIBRE CEMENT</u>					
One coat universal primer and two coats exterior quality super acrylic PVA paint					
On fascias and barge boards	m ²		2		
<u>ON METAL</u>					
Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one universal undercoat and two coats non drip high gloss alkyd enamel paint on steel					
On doors and frames	m ²		2		
<u>ON WOOD</u>					
Three coats interior quality varnish					
On doors	m ²		2		
On skirtings, rails, etc not exceeding 300mm girth	m		4		
<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>					
<u>ON SCREEDED FLOORS, ETC</u>					
Wash down well with sugar soap, rinse with clean water and allow to dry, remove loose and flaking paint, make good cracks and defects with an interior filler, allow to dry and sand smooth, and apply two full coats stoep paint on previously painted surfaces in fair conditio					
On screeded floors	m ²		3		
<u>PAINT ON PLASTER, ETC.</u>					
Wash down well with sugar soap, rinse with clean water and allow to dry, remove loose and flaking paint, make good cracks and defects with an interior filler, allow to dry and sand smooth, spot prime bare and repaired areas with plaster primer thinned 20% with mineral turpentine and apply universal undercoat to repaired areas and apply two full coats acrylic PVA paint on previously painted surfaces in fair condition					
On plastered ceilings and beams	m ²		2		
On internal plastered walls	m ²		2		
		Carried Forward			R
Section No.2					
Bill No.17					
PAINTWORK					

	Brought Forward			R
<p>Wash down well with sugar soap, rinse with clean water and allow to dry, remove loose and flaking paint, make good cracks and defects with an external filler, allow to dry and sand smooth, spot prime bare and repaired areas with plaster primer thinned 20% with mineral turpentine and apply universal undercoat to repaired areas and apply two full coats washable mat enamel paint on previously painted surfaces in fair condition</p>				
On internal plastered walls	m ²	2		
<p><u>PAINT ON METAL</u></p>				
<p>Wash down well with sugar soap, rinse with clean water and allow to dry, remove any rust, loose and flaking paint and treat rusted areas only with an approved rust inhibitor, spot prime bare metal areas with zinc chromate metal primer, and apply one coat universal undercoat to primed areas and two full coats enamel on previously painted surfaces in fair condition</p>				
On doors and pressed steel door and window frames	m ²	2		
On window frames	m ²	3		
On burglar doors, bars, etc	m ²	2		
<p><u>PAINT ON WOOD</u></p>				
<p>Wash down well with sugar soap, rinse with clean water and allow to dry, remove loose and flaking paint, make good cracks and defects with an external filler, allow to dry and sand smooth, spot prime bare and repaired areas with plaster primer thinned 20% with mineral turpentine and apply universal undercoat to repaired areas and apply two full coats washable mat enamel paint on previously painted surfaces in fair condition</p>				
On doors, frames, etc	m ²	4		
On bulkheads not exceeding 300mm high	m	4		
<p>Wash down well with sugar soap, sand down, rinse with clean water and allow to dry, remove any loose flaking varnish and treat exposed areas only with a sealer and apply two coats clear varnish on previously varnished surfaces in fair condition</p>				
On doors, frames, etc	m ²	3		
On timber panneling	m ²	2		
On general surfaces of fittings, linings, etc	m ²	4		
On window cill not exceeding 300mm girth	m	7		
	Carried to sectional summary			R
Section No.2				
Bill No.17				
PAINTWORK				

SECTION NO. 2	Unit	QTY	RATE	AMOUNT
BILL NO. 18				
EXTERNAL WORKS				
NOTE: For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
ROADS				
Excavation				
Excavate in earth not exceeding 1000mm deep	m³	3		
Filling				
Base layer of natural gravel material (G5)supplied by the contractor and brought onto site compacted in layers not exceeding 150mm thick to 95% modified AASHTO density	m³	2		
Base layer of natural gravel material (G6)supplied by the contractor and brought onto site compacted in layers not exceeding 150mm thick to 95% modified AASHTO density	m³	2		
Base layer of natural gravel material (G7)supplied by the contractor and brought onto site compacted in layers not exceeding 150mm thick to 95% modified AASHTO density	m³	2		
25mm thick clean, dry river sand layer treated with an approved weed killer at a rate of 50 grams per square metre, spread and levelled to receive paving blocks (elsewhere)	m²	6		
Compaction of surfaces				
Compaction of ground surface under pavings etc including scarifying for a depth of ?mm, breaking down oversize material, adding suitable material where necessary and compacting to ?% Mod AASHTO density	m²	8		
Prescribed density tests on filling				
In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	4		
Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	4		
Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	2		
UCS test in accordance with method A14 of TMH 1	No	3		
Carried Forward				R
Section No.2 Bill No.18 EXTERNAL WORKS				

		Brought Forward		R
Bituminous premix road surfacing				
Parking areas, roadways, etc	m ²	4		
ROADLINES AND SIGNS				
Non-reflectorisred paint, including undercoat, applied at the manufacturer's recommended covering rate, including proper preparations of surface to receive paint, to:				
100 mm Wide white continuous line in parking bay	m	4		
Numbering to kerbs	No	2		
Paraplegic sign, in yellow paint	No	1		
<u>FENCING</u>				
ClearVu fencing				
"BetaView" or similar approved ZincAlu and PVC coated security fence, gates, etc and setting out of fence system to be maintenance free and carry a minimum 10 year anti corrosion guarantee and 15 year functional guarantee in urban areas.				
Panels: Welded mesh panels, with rectangular apertures, made from ZincAlu super wire and PVC coated - Anthracite RAL 7021. Mesh apertures: 76.2 x 12.7mm; Horizontal wire diameter: 3.00mm; Vertical wire diameter: 3.00mm, Weld strength: 60% of the minimum tensile strength of the wire; Tensile Strength Range of wire: 540-690N/m2; Height of panels: 2400mm; Width of panels: 3050mm				
Posts: Bakafix Secure Post - H-Shape; hot-dip zinc coated steel sheet (sendimir) Length of post: 3m; Post of post: 70mm x 44mm x 2mm Colour: Anthracite RAL 7021 Holes in side flanges for lateral fixation for the panels with mini securifor brackets and plastic caps Posts to be planted in: 400mm x 400mm x 600mm concrete base - 15Mpa/19mm.				
New fence complete	m	1		
		Carried Forward		R
Section No.2 Bill No.18 EXTERNAL WORKS				

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EARTHWORKS	Page	C2.2-42-	
CONCRETE AND REINFORCEMENT	Page	C2.2-45-	
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EXTERNAL WORKS	Page	C2.2-92-	
carried to final summary			

		Brought Forward		R
<u>HVAC INSTALLATION</u>				
Provide the Provisional sum of R34,000.00 for HVAC Installation to be executed complete by Sub-Contractor	Item	1	34,000.00	34,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
<u>FIRE DETECTION INSTALLATION</u>				
Provide the Provisional sum of R32,000.00 for Fire Detection Installation to be executed complete by Sub-Contractor	Item	1	32,000.00	32,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
<u>INTRUDER ALARM INSTALLATION</u>				
Provide the Provisional sum of R30,000.00 for Intruder Alarm Installation to be executed complete by Sub-Contractor	Item	1	30,000.00	30,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
<u>COMMUNITY LIAISON OFFICER</u>				
Provide the amount of R60 000.00 (Sixty Thousand Rand) for the appointment of a Community Liaison Officers. Provide the R5,000.00 Allowance inclusive cell phone monthly.	Item	1	60,000.00	60,000.00
Allow for profit	%			
Allow for general attendance	%			
		carried to final summary		R
Section No.3 Bill No.1 PROVISIONAL SUMS				

FINAL SUMMARY			
SECTION NO:1 PRELIMINARIES			
SECTION NO: 2 BUILDING WORK			
SECTION NO: 3 PROVISIONAL SUMS			
Sub Total			
Add 10% Contingency	%	10	
Sub Total			
Add VAT @ 15%	%	15	
Total carried of form of offer			