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 7: 8GB/7GBPE

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 a 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 extend 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 bidded 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 BDDER 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 CATEORY 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 QUAIFY 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)

$$A = 0.85 \times V \times (Xe / Xo - 1)$$

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
Xe	=	the value of the index applicable to such work group and the valuation period which shall be the value for : • 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
Xo	=	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

8GB-7GBPE Generic BOQ

DESCRIPTION	UNIT	QTY	RATE	AMOUNT
SECTION NO. 1				
BILL NO. 1				
PRELIMINARIES				
NOTES				
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				
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				
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				
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				
v) Where any items are not relevant to this specific Agreement such items are marked NOT APPLICABLE in the amount column (N/A)				
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 varried in proportion to the contract value as compared with the contract sum and "T" denotes an amount which shall be varried in proportion to the contract period.				
Carried Forward			R	
Section No.1 Bill No.1 Preliminaries				

Brought Forward			R	
vii) Items not priced in these preliminaries shall be deemed to be included elsewhere and as priced as such				
viii) Should there be any discrepancy between these Preliminaries and the Agreement, these Preliminaries shall take precedence				
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				
PRICING OF PRELIMINARIES				
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 ralated and 75% will be time related.				
SECTION A: PRINCIPAL BUILDING AGREEMENT				
DEFINITIONS				
Definitions and interpretation (clause 1)	Item	1		
F:..... V:..... T:.....				
OBJECTIVE AND PREPARATION				
Law, Regulations and Notices (clause 2)	Item	1		
F:..... V:..... T:.....				
Offer and Acceptance (clause 3)	Item	1		
F:..... V:..... T:.....				
Assignment and Cession (clause 4)	Item	1		
F:..... V:..... T:.....				
Carried Forward			R	

	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	

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	

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:.....				
CONTRACT AGREEMENT				
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	

Brought Forward			R
A5 - The Principal Agent referred to in the Agreement. To be completed after award of bid **Physical address:** **Postal address:** Telephone: Fax: B2.1/25.15 The law of the country applicable to the project. **RSA.** B5.1 Signed contract documents held by the principal agent, or CoE, or Contractor B5.5 Number of copies of documents issued free to the contractor. **3 (Three)** B5.5.1 Priced Bill of Quantities. **Yes** B6 Description of interest of agent in the project other than professional services, if applicable. Not Applicable			
Carried Forward			R

Section No.1
Bill No.1
Preliminaries

Brought Forward			R
B10 Insurances.			
To be effected by the Contractor refer to relevant clauses in Preliminaries Bill.			
B11.1.1-5 The contractor shall provide a Guarantee for Construction to the employer.			
Yes			
B12.9.2.7 Alterations & additions to existing premises.			
(To Be Confirmed)			
B12.1.2 Premises occupied.			
(To Be Confirmed)			
B12.1.3 Relevant natural features to be retained/relocated/removed.			
(To Be Confirmed)			
B12.1.4 Area the contractor may not occupy?			
(To Be Confirmed)			
B12.1.5 Utilities connection – location.			
(To Be Confirmed)			
Carried Forward			R

Section No.1
Bill No.1
Preliminaries

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 x V x (Xe / Xo – 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 Xe = the value of the index applicable to such work group and the valuation period which shall be the value for : • 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 Xo = 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	

Section No.1
Bill No.1
Preliminaries

Brought Forward			R	
Where appropriate, rates for similar items in these bills of quantities should be the same				
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				
F:..... V:..... T:.....				
Tender submission (B2.6)	Item	1		
This clause is amended by substituting "JBCC Form of Tender" with "Official Form of Tender":				
F:..... V:..... T:.....				
THE SITE (B3)				
Defined works area (B3.1)	Item	1		
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Geotechnical investigation (B3.2)	Item	1		
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Existing premises occupied (B3.4)	Item	1		
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Previous work - dimensional accuracy (B3.5)	Item	1		
F:..... V:..... T:.....				
Previous work - defects (B3.6)	Item	1		
F:..... V:..... T:.....				
Carried Forward			R	

Section No.1
Bill No.1
Preliminaries

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			R	
See Schedule of Variables (B12)				
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		
F:..... V:..... T:.....				
Progress meetings (B4.3)	Item	1		
F:..... V:..... T:.....				
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	

	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	

Brought Forward			R	
FINANCIAL ASPECTS (B10)				
Statutory taxes, duties and levies (B10.1)	Item	1		
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				
F:..... V:..... T:.....				
Payment of preliminaries (B10.2)	Item	1		
See Schedule of Variables (B12)				
F:..... V:..... T:.....				
Adjustment of preliminaries (B10.3)	Item	1		
Notwithstanding the provisions of sub-clause B10.3.1				
(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				
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				
F:..... V:..... T:.....				
Payment certificate cash flow (B10.4)	Item	1		
F:..... V:..... T:.....				
Carried Forward			R	

	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)	Item	1		
F:..... V:..... T:.....				
Overhand work (B11.9)	Item	1		
F:..... V:..... T:.....				
Instruction Manuals and guarantees (B11.10)	Item	1		
F:..... V:..... T:.....				
As built information (B11.11)	Item	1		
F:..... V:..... T:.....				
Tenant installation (B11.12)	Item	1		
F:..... V:..... T:.....				
SCHEDULE OF VARIABLES (B12)				
PRE-TENDER INFORMATION				
Pre-tender information (B12.1)	Item	1		
F:..... V:..... T:.....				
12.1.1 Provisional bills of quantities (B2.2)				
The quantities are provisional:				
No				
12.1.2 Availability of construction documentation (B2.3)				
Construction documentation is complete:				
Yes				
12.1.3 Interests of agents (B2.4)				
The agents have no interest in this project apart				
from their professional interest				
12.1.4 Defined Works area (B3.1)				
The works will be defined and restricted to specific areas only as determined				
by the Principal Agent and shall be dealt with at the compulsory site inspection meeting				
Carried Forward			R	

Section No.1
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Preliminaries

Brought Forward			R
12.1.5 Geotechnical investigation (B3.2)			
Geotechnical Report will be available on request where applicable			
12.1.6 Existing premises occupied (B3.4)			
Yes			
12.1.7 Previous work - dimensional accuracy (B3.5) existing building, etc demolitions			
12.1.8 Previous work defects			
Existing buildings, etc demolitions complete (B3.6) or in part			
12.1.9 Services - known (B3.7)			
As shown on drawings			
12.1.10 Protection of trees (B3.9)			
No trees are to be removed without prior instruction from the Principal Agent and existing trees to be protected from damage for the full duration of the Contract			
12.1.11 Inspection of adjoining properties (B3.11)			
Not applicable			
12.1.12 Enclosure of the Works (B6.2)			
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)			
Carried Forward			R

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Brought Forward			R
12.1.13 Offices (B6.4.3) Office accommodation shall be minimum 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric light and fitted with boarded floor, table and ten chairs			
12.1.14 Main notice board (B6.5) The main notice board shall be strongly 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 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			
12.1.15 Subcontractors notice board (B6.6) A notice board is required: No			
Carried Forward			R

	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				
Facsmile: 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)				
	Carried Forward			R

Brought Forward			R	
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 willl be pre-determined on site with the principal Agent				
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				
Carried Forward			R	

Section No.1
Bill No.1
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Brought Forward			R	
SECTION C: SPECIFIC PRELIMINARIES				
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:.....				
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:.....				
Carried Forward			R	

Section No.1
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Brought Forward			R	
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:.....				
OCCUPATIONAL HEALTH AND SAFETY ACT - SECTION 37(2)	Item	1		
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).				
Tenderers are expected to be fully aquainted with the requirements of the Act.				
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.				
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.				
F:..... V:..... T:.....				
Carried Forward			R	

Brought Forward			R	
COMMUNITY EMPLOYMENT AND SMME INVOLVEMENT 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 Local labour 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 F:..... V:..... T:.....	Item	1		
SPECIFIC GOAL PARTICIPATION 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 F:..... V:..... T:.....	Item	1		
LABOUR INTENSIVE WORKING METHODS 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 F:..... V:..... T:.....	Item	1		
Carried Forward			R	

Section No.1
Bill No.1
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Brought Forward			R	
NON ACCREDITED TRAINING	Item	1		
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				
F:..... V:..... T:.....				
EXPANDED PUBLIC WORKS PROGRAMME	Item	1		
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: (i) employ, train, and empower a minimum of 90% from local community members per project within a 5km radius of projects. (ii) sub-contract or procure a minimum of 25% of the contract value from Ekurhuleni based suppliers and service providers				
Tenderers are expected to be fully aquainted with the requirements of the Policy.				
F:..... V:..... T:.....				
TESTING OF FLAT ROOF WATERPROOFING FOR WATER TIGHTNESS	Item	1		
F:..... V:..... T:.....				
COOPERATION OF CONTRACTOR FOR COST MANAGEMENT	Item	1		
F:..... V:..... T:.....				
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:.....				
Carried Forward			R	

Section No.1
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Preliminaries

Brought Forward			R	
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 R				
2. Value related R				
3. Time related R				
Carried to sectional summary			R	

Section No.1
Bill No.1
Preliminaries

	Unit	Qty	Rate	Amount
SECTION NO. 2				
BILL NO. 1				
DEMOLITIONS, REMOVALS AND ALTERATIONS				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors.				
Allow for watering the works sufficiently to prevent nuisance from dust.				
OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, rubble, debris etc.., must be regularly carted from the site and not be allowed to accumulate on or around the site. OLD MATERIALS NOT TO BE RE-USED: None of the old materials are to be used for new work except where specifically described as being set aside for re-use.				
OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR: Old materials from alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.				
HANDING OVER OF MATERIALS: Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.				
TRADE NAMES				
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.				
Carried Forward			R	
Section No.2 Bill No.1 DEMOLITIONS, REMOVALS AND ALTERATIONS				

Brought Forward			R	
DEMOLITIONS, ETC				
ITEMS OF HERITAGE SIGNIFICANCE				
Carefully take out and hand to Employer (for onward submission to specialist restoration Contractor)				
Refer to ……. for Heritage Consultants recommendations				
Preservation of mural and casting of moulds for wall tiles included in Provisional sum Allowances				
Timber framed display scroll map cabinet overall size, 1800 x 300 x 1000mm high	No	2		
Timber framed display scroll map cabinet overall size, 2300 x 300 x 1000mm high	No	2		
Steel wall mounted letterbox, approximate size, 300 x 180 x 180mm high	No	1		
Timber shopfront including all ironmongery, size 2500 x 2100mm high	No	2		
Aluminium shopfront including all ironmongery, size 3500 x 2500mm high	No	10		
Concrete wall tiles approximate size, 150 x 150mm	m²	4		
Protection of existing balustrades during construction period				
Suitable protection/cover as deemed appropriate by Contractor of existing 1000mm high balustrade to internal staircase to prevent from scratching and damage during construction period and removal of protection/cover on contract completion (painting of balustrades elsewhere measured)	m	336		
Demolishing and removing				
Single storey building 13000 x 10000 mm on plan and 2800mm high at eaves, comprising of two gable ends, reinforced foundations, unreinforced concrete surface bed, 230mm external walls, 110mm internal walls, corrugated iron roof sheets(20m2) and timber structure Including carting away of all material at a designated area chosen by the client.	No	1		
Single storey building 7000 x 6000 mm on plan and 2800mm high at eaves, reinforced foundations, unreinforced concrete surface bed, 230mm external walls. Including carting away of all material at a designated area chosen by the client.	No	1		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
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		
Single storey building 14600 x 5900 mm on plan and 2600mm high at eaves, comprising of reinforced concrete roof, reinforced foundations, unreinforced concrete surface bed, 230mm external walls. Including carting away of all material at a designated area chosen by the client.	No	1		
Single storey Asbestos building 17500 x 9000 mm on plan and 2800mm high at eaves, comprising of two gable ends, reinforced foundations, unreinforced concrete surface bed, Corrugated sheet roof covering including timber structure. Including carting away of all material at a designated area for such materials	No	1		
Covered parking 10000 x 4500 mm consisting of square tube steel columns and corrugated steel roof sheeting and steel purlins.	No	1		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
TEMPORARY BARRIERS ,SCREENS, ETC				
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	20		
Drywall barrier 2500mm high formed of galvinized steel channel section rails and studs covered on one side with 12.7mm gypsum board panels and finishes with two coats interior quality PVA emulsion paint on one side including corners, ends, etc	m	30		
Extra over drywall screen for a single door and frame complete with 3 lever lock and handle	No	3		
Corrugated sheet tunnel hoarding comprising of vertical sheeting as side walls and horizontal sheeting as roof including all supporting framework				
Vertical sheeting	m²	90		
Roof sheeting	m²	90		
Temporary hoarding fence around building to be constructed including erection and dismantling at contract completion				
3000mm High diamond mesh fence with and including shade cloth covering on one side,including all corners, straining and support posts, droppers, straining wire, earthworks and necessary concrete bases, executed complete	m	120		
2500mm High x 1000mm wide diamond mesh clad pedestrian gate, gate frame, straining and support posts, straining wire, bolts and lock set, earthworks and necessary concrete bases, executed complete	No	2		
2500mm High x 5000mm wide diamond mesh clad vehicle gate, gate frame, straining wire, bolts and lock set, earthworks and necessary concrete bases, executed complete	No	1		
THE FOLLOWING IN DEMOLITION TO EXTERNAL FA×ADE WALL CLADDING				
Hack up and remove terrazzo clad precast concrete cladding secured to perimeter walls				
Fa×§ade cladding between windows				
Approximately 100mm thick wall cladding, overall size 450 x 1100mm high	No	308		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Approximately 100mm thick wall cladding, overall size 900 x 1500mm high	No	322		
Fa×§ade cladding protruding from the flush face of wall				
Approximately 100mm thick wall cladding, overall size 450 x 1100mm high flush with face of wall	No	168		
Approximately 100mm thick wall cladding, overall size 900 x 1500mm high flush with face of wall	No	91		
Approximately 100mm thick wall cladding, overall size 900 x 1500mm high protruding approximately 50mm from flush face of wall	No	91		
Wall cladding with and including roof capping				
Approximately 100mm thick L-shaped wall cladding, overall size 450 x 1300mm high including 200 x 900mm wide roof capping	No	56		
Approximately 100mm thick L- shaped wall cladding, overall size 900 x 1900mm high including 400 x 900mm wide roof capping	No	59		
Approximately 100mm thick roof corner cladding, overall size 450 x 2000mm high including 200 x 900mm wide capping	No	12		
Fa×§ade cladding at corners of building				
Approximately 100mm thick wall cladding, fixed at corners overall size 450 x 1100mm high	No	216		
THE FOLLOWING IN DEMOLITION TO PRECAST FASCIA FEATURE				
Take out and remove Fascia feature fa×§ade comprising of approximately 175mm thick concrete ring beam having approximately 75mm thick precast terrazzo fascia attached, concrete fins and mosaic clad timber vertical rails				
175mm thick concrete fascia beam with and including 75mm thick terrazzo clad concrete fascia attached overall size approximately, 250mm thick x 500mm high	m	126		
Vertical timber rails fixed to concrete fascia beam overall size approximately, 38 x 76 x 3000mm high	No	93		
Concrete fins supporting fascia beams approximate size,150 x 400 x 800mm long	No	94		
THE FOLLOWING IN DEMOLITIONS TO CREATE NEW OPENING FOR FIRE ESCAPE STAIRCASE				
Break down and remove brickwork etc. and make good finishes to match existing				
330mm brick wall	m²	340		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Break up and remove reinforced concrete including cutting back and removing reinforcement				
Slabs not exceeding 500mm thick	m²	72		
Landings not exceeding 500mm thick	m²	54		
Sloping slabs including treads and risers average 300mm thick	m²	390		
REMOVAL OF EXISTING WORK				
Carefully dismantle and remove carports including all fittings and set aside all components in store to be reinstalled later (Reinstalling elsewhere measured)				
Carport, size approximately 32000 x 5000mm on plan and 3000mm high comprising of 100 x 100 x 6mm thick column posts, steel beams, steel purlins, base plates, angles etc, steel corrugated roof sheeting, grubbing up existing foundations backfill to existing levels compacted to 98% Mod AASHTO density	No	2		
Carport, size approximately 25000 x 32000mm on plan and 3000mm high comprising of 100 x 100 x 6mm thick column posts, steel beams, steel purlins, base plates, angles etc, steel corrugated roof sheeting, grubbing up existing foundations backfill to existing levels compacted to 98% Mod AASHTO density	No	4		
Breaking down and removing concrete including finishes, etc				
Strip footings, basis, etc	m³	3		
Steps and landings	m³	2		
Raised floors	m³	2		
Surface bed	m³	5		
Breaking up and removing reinforced concrete, including cutting off and removing reinforcement etc				
Slabs	m³	10		
Stairs and landings	m³	5		
Columns	m³	7		
Beams	m³	12		
Lift and removing pre-cast concrete including bedding, etc				
60mm Interlocking paving	m²	40		
80mm Interlocking paving	m²	25		
50mm Cement or brick paving	m²	14		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Fig.1 Heavy duty kerbing	m	1		
Fig.2 Heavy duty kerbing	m	3		
Fig.3 Heavy duty kerbing	m	50		
Fig.4 Heavy duty kerbing	m	2		
Fig.5 Heavy duty kerbing	m	1		
Fig.6 Heavy duty kerbing	m	15		
Fig.7 Heavy duty kerbing	m	1		
Fig.8a Heavy duty kerbing	m	10		
Fig.8b Heavy duty kerbing	m	17		
Fig.8c Heavy duty kerbing	m	12		
Fig.9 Heavy duty kerbing	m	1		
Fig.10 Heavy duty kerbing	m	1		
Fig.12 Heavy duty kerbing	m	22		
Fig.13 Heavy duty kerbing	m	1		
Fig.14 Heavy duty kerbing	m	1		
Fig.16 Heavy duty kerbing	m	1		
Fig.17 Heavy duty kerbing	m	1		
Fig.18 Heavy duty kerbing	m	1		
Breaking down and removing brickwork including finishes, etc				
Half brick walls	m²	52		
One brick walls	m²	153		
One and a half brick walls	m²	37		
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	4		
Timber door and aluminium frame 813 x 2032mm high and make good 90mm partition wall	No	4		
Window panel, size 600 x 595mm high overall comprising of one side hung pane.	No	8		
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	33		
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	10		
Timber door and steel frame 813 x 2032mm high with 813 x 800mm glass pannelled louvre over from half brick wall	No	10		
Timber double door and steel frame 1613 x 2032mm high from brick wall	No	8		
Timber paraplegic door and steel frame 900 x 2032mm high from half brick wall	No	6		
Steel strong room door and frame 900 x 2130mm high from one brick wall	No	7		
Glazed steel window frame 1500 x 600mm high from one brick wall	No	5		
Glazed steel window frame 1500 x 1200mm high from one brick wall	No	9		
Glazed steel window size 1022 x 949mm high from one brick wall	No	11		
Glazed steel window size 1022 x 654mm high from one brick wall	No	8		
Glazed steel window size 889 x 1258mm high from one brick wall	No	7		
Take out and remove aluminium doors, windows, shopfronts, etc..				
Aluminium door, size 1600 x 2100mm high	No	1		
Aluminium door, size 2700 x 2300mm high	No	3		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Aluminium Door, size 2800 x 2300mm high	No	1		
Aluminium sliding door, size 1800 x 2100mm high	No	1		
Aluminium window, size 840 x 840mm high	No	1		
Aluminium shopfront, size 2600 x 2500mm high	No	2		
Aluminium shopfront including double door, size 3500 x 3300mm high (Main entrance ground floor)	No	2		
Aluminium shopfront including framework to external fa×§ade (3100mm high panels in varying widths)	m²	161		
Aluminium shopfront including framework internally (3300mm high panels in varying widths)	m²	29		
Aluminium serving hatch, size 1500 x 1000mm high	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	12		
Timber door from steel door frame 813 x 2032mm high	No	9		
Timber door from steel frame 1510 x 2032mm high overall	No	5		
Timber door from steel frame 1613 x 2032mm high overall	No	5		
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	6		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Glazed steel window 1200 x 950mm high from one brick wall	No	2		
Steel window frame 900 x 600mm high from one brick wall	No	2		
Steel window frame 3000 x 600mm high from one brick wall	No	3		
Timber framed hatch 2500 x 1500 from one brick wall	No	3		
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	10		
Timber single door and frame 813 x 2032mm high from one brick wall	No	14		
Timber single door and frame 813 x 2032mm high with 813 x 800mm glass pannelled fanlight over from half brick wall	No	8		
Timber double door and frame 1613 x 2032mm high from one brick wall	No	8		
Take out timber serving hatch doors including timber frame, overall size 2200 x 1000mm high with and including sliding rail 4300mm long	No	1		
Safe door including frame, size 1000 x 2000mm high	No	4		
Aluminium double door and frame 2500 x 2100mm high from one brick wall	No	6		
Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
Steel roof sheeting from timber or steel trusses including ridge, flashings, etc	m²	550		
Concrete tiles from timber or steel trusses including ridge, flashings, etc	m²	678		
150 x 150mm Sheet iron eaves gutter	m	220		
100 x 75mm Sheet iron down pipe	m	275		
15 x 300mm Fibre cement or timber fascia and barge boards	m	249		
Timber suspended floors including support beams, etc	m²	294		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Timber wall panneling including cleats, beads, etc	m²	1,176		
6.4mm Nailed up ceilings including brandering cornices, etc	m²	294		
9.5mm Suspended ceiling including framework, cornices, etc	m²	103		
Drywall, timber, etc partitioning 2800mm high and make good finishes	m	115		
Vertical bulkhead not exceeding 500mm high	m	98		
Aluminium glazed shopfronts including doors 2500mm high	m	48		
Suspended steel ceilings including framework	m²	6		
Taking out sundry carpentry items, etc				
19 x 75mm Timber skirting and quadrants	m	168		
19 x 75mm Timber skirting and quadrants to treads and risers	m	84		
19 x 150mm Timber capping over power skirtings	m	67		
Timber cornice	m	125		
Taking out and removing sundry joinery work				
Existing timber wall shelving, brackets, cleats, etc not exceeding 300mm wide	m	21		
600mm Wide x 800mm high kitchen floor units complete with doors, tops, etc	m	17		
600mm Wide x 2800mm high built in cupboard complete with doors, shelving, etc	m	18		
Soft board pinning boards including timber framing around	m²	3		
Notice, white boards, etc 1200 x 900mm high	No	1		
Sign, approximate size 100 x 100mm high	No	1		
Sign, approximate size 200 x 200mm high	No	61		
Sign, approximate size 250 x 250mm high	No	1		
Sign, approximate size 300 x 300mm high	No	10		
Sign, approximate size 400 x 300mm high	No	2		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Sign, approximate size 480 x 450mm high	No	1		
Sign, approximate size 600 x 200mm high	No	12		
Sign, approximate size 800 x 300mm high	No	1		
Sign, approximate size 800 x 600mm high	No	1		
Sign, approximate size 900 x 900mm high	No	2		
Directional/fire signage, approximate size 150 x 150mm high	No	100		
Parking sign, approximate size 200 x 600mm high	No	17		
Timber number board sign, approximate size 930 x 760mm high	No	1		
Vinyl tile floor tile covering including skirtings and preparing screed for new ceramic tiles covering	m²	57		
Vinyl tile floor tile covering including skirtings and preparing screed for treads and risers	m²	43		
Carpet tile floor covering and preparing screed for new carpet tiles	m²	76		
Carpet tile floor covering to treads and risers and preparing screed for new carpet tiles	m²	81		
Carpet floor covering including underfelt and preparing screed for new carpet tiles	m²	66		
Parquet wood flooring including skirtings, etc for new carpet tiles	m²	38		
Remove existing wallpaper to walls and prepare surfaces to recieve new paint, etc including skim coat plaster	m²	23		
Sundries				
Remove existing aluminium stair nosing	m	15		
Remove existing alumnium angle edging to treads and risers of stairs	m	25		
Taking out and replacing ironmongery				
Brass window peg stay	No	16		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Brass window handle	No	16		
Brass gripper catch	No	16		
Taking out and refixing ironmongery, etc				
Two or three lever lockset from timber door	No	10		
WC Indicator bolt from timber door	No	10		
Chromium plated hat and coat hook	No	17		
Ironmongery sundries				
Remove existing curtain tracks, rails, vertical louvres, etc	m	26		
Remove existing towel rails, toilet paper holders, etc	No	18		
Remove existing signage and fire signage signs 190 x 190mm	No	11		
Service existing door locksets by tightening loose screws, fixing handles, etc	No	27		
Service existing WC locksets by tightening loose screws, fixing handles, etc	No	7		
Service existing aluminium door lockset by tightening loose screws, fixing handles, etc	No	13		
Service existing aluminium double door lockset by tightening loose screws, fixing handles, etc	No	13		
Service existing door closer by tightening loose screws, fixing handles, etc	No	11		
Service existing aluminium louvre fanlight with vertical glass size 813 x 513mm high by tightening loose screws, fixing blades, etc	No	5		
Taking out and removing sundry metal work				
Steel burglar bars fixed to walls, etc	m²	22		
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	17		
Steel roller shutter door 2100 x 2500mm high	No	3		
Chain operated slatted roller shutter for 1800 x 1200mm high opening	No	2		
Chain operated slatted roller shutter for 900 x 2100mm high opening	No	1		
Steel security gate 900 x 2100mm high including cutting of lugs, bolts, etc and make good finishes	No	2		
Steel security double gate 1800 x 2100mm high including cutting of lugs, bolts, etc and make good finishes	No	2		
1000mm high glass pane balustrade with stainless steel framework	m	4		
1000mm high steel balustrades bolted to floor	m	302		
100mm high steel dado rail bolted to wall	m	11		
Steel corner protectors	m	127		
320mm High Armco barriers	m	46		
Wall Mount TV stand, approximate size 500 x 500mm high	No	1		
Wall Mount TV stand, approximate size 700 x 700mm high	No	3		
Wall mount steel cabinet, size 750 x 300 x 580mm high	No	1		
Wall mount steel cabinet, size 1000 x 300 x 610mm high	No	1		
Wall mounted cantilevered washing line, approximate size 1500mm x 1000mm	No	1		
Steel wall mounted safe, overall size 300 x 100 x 230mm high	No	2		
Wall mounted dustbin, overall size 300 x 300 x 450mm deep	No	1		
Steel kitchen unit, size 1000 x 500 x 900mm high	No	1		
Steel sink unit, size 1330 x 500 x 900mm high	No	1		
Steel sink unit, size 1600 x 500 x 900mm high	No	1		
Steel bi-parting rolling file cabinets , overall size 1200 x 2300 x 2400mm high	No	1		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Steel bi-parting rolling file cabinets , overall size 2500 x 900 x 2300mm high	No	1		
Steel bi-parting rolling file cabinets , overall size 2900 x 1000 x 2400mm high	No	1		
Steel bi-parting rolling file cabinets , overall size 3200 x 1000 x 2400mm high	No	2		
Steel bi-parting rolling file cabinets , overall size 3500 x 1000 x 2340mm high	No	8		
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	m²	31		
50mm Granolithic from treads and risers of stairs	m²	18		
30mm Screed on floors	m²	28		
50mm Screed on floors	m²	21		
Internal plaster from walls and columns	m²	68		
Internal plaster from ceilings and beams	m²	44		
External plaster from walls and columns	m²	25		
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	m²	54		
Tiles to treads and risers in narrow widths	m²	38		
Tiles to walls	m²	72		
Tiles to walls in narrow widths	m²	69		
Tile skirting 150mm high	m	65		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
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	m²	42		
Tiles to treads and risers in narrow widths	m²	27		
Tiles to walls	m²	88		
Tiles to walls in narrow widths	m²	33		
Tile skirting 150mm high	m²	29		
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)				
Vitreous china wash hand basin including 2 bip taps	No	33		
Vitreous china wash hand basin	No	21		
Vitreous china WC pan with cistern	No	33		
Wall mounted ceramic urinal overall size 600 x 100mm high including demolishing half brick walls 300mm either side	No	1		
Stainless steel or vitreous china urinal 2500 x 1200mm high including breaking up and removing concrete urinal step, floor channel, etc	No	11		
Triple Ceramic urinal, size 1800 x 1200 x 600mm deep	No	4		
1500mm x 530mm Stainless steel double bowl sink and unit complete including taps, etc	No	4		
920mm x 530mm Stainless steel single bowl sink and unit complete including taps, etc	No	2		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

	Brought Forward			R
Steel wash through		No	1	
Geysers				
Hydroboil		No	10	
50 Litre geyser including all fittings		No	7	
150 Litre geyser including all fittings		No	3	
Taps				
Wall mounted sink mixer		No	3	
Bip taps		No	11	
Shower Rose		No	1	
Shower trap		No	1	
Star taps to showers		No	2	
Fire equipment				
Fire extinguisher		No	32	
Fire Hose reel		No	14	
Fire hydrant		No	4	
Sanitary fittings sundries				
Stainless steel soap dispenser		No	9	
Stainless steel hand dryer		No	2	
Steel four tier toilet roll holder		No	2	
Stainless Steel two tier toilet roll holder		No	21	
Stainless Steel towel rail, 800mm long		No	1	
Stainless Steel towel rail, 2000mm long		No	1	
Steel soap dish		No	1	
	Carried Forward			R

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Ceramic soap dish	No	7		
Ceramic single toilet roll holder	No	12		
Condom dispenser	No	7		
Piping				
15mm copper pipe	m	1,350		
22mm copper pipe	m	1,215		
50mm copper pipe	m	1,215		
15mm galvanised pipe	m	1,200		
22mm galvanised pipe	m	520		
50mm upvc pipe	m	810		
75mm upvc pipe	m	810		
75mm cast iron pipe	m	275		
110mm cast iron pipe	m	270		
Galvanised steel gutter including brackets and making good all work disturbed	m	5		
Galvanised steel down pipe including brackets and making good all work disturbed	m	3		
Taking out and removing glass and mirrors				
Remove existing mirror size 600 x 600mm	No	5		
Remove existing mirror size 1200 x 1200mm	No	1		
Glass from steel windows including cleaning out rebates and preparing for new glass	m²	19		
Glass from aluminium doors or windows including cleaning out rebates and preparing for new glass	m²	9		
Cutting through floors and ceilings				
Core drill 100mm diameter hole through 250mm reinforced concrete slab	No	4		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Core drill 200mm diameter hole through 250mm reinforced concrete slab	No	5		
Hole through one brick wall plastered both sides including making good for 110mm diameter pipe	m2	5		
Hole through one brick wall plastered both sides including making good for 50mm diameter pipe	No	13		
Hole through one brick wall plastered both sides including making good for 110mm diameter pipe	No	13		
Hole through one brick wall plastered one side and faced on the other side including making good for 110mm diameter pipe	No	7		
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	12		
Opening for 1511 x 2032mm high door through half brick wall	No	10		
Opening for 813 x 2032mm high door through one brick wall	No	17		
Opening for 1511 x 2032mm high door through one brick wall	No	8		
Opening for 900 x 2135mm high steel strong room door through one brick wall	m²	8		
Opening through half brickwall	m²	15		
Opening through one brickwall	m²	9		
Opening for 1613 x 2032mm high double door through one brick wall	No	5		
Opening for AC sleeve 600 x 450mm high through one brick wall	No	10		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
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	10		
Opening for AC sleeve 600 x 450mm high through one brick wall	No	10		
BUILDING UP OPENINGS				
Brickwork in NFP bricks in class II mortar in building up openings				
Half brickwall	m²	79		
One brick walls	m²	112		
270mm hollow walls of two half brick skins	m²	22		
Brickwork in NFP bricks in class II mortar in building up openings, including bonding new to existing and making good cement plaster on both sides (paint elsewhere mesured)				
Half brickwall	m²	24		
One brick walls	m²	46		
270mm hollow walls of two half brick skins	m²	21		
Sundries				
Cutting toothings and bonding new brickwork to existing	m²	12		
Face bricks pointed with flush horizontal and vertical joints				
Extra over brickwork for face brickwork in patches	m²	7		
150mm Wide brick-on-edge header course sill set sloping and slightly projecting	m	6		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Cutting toothings and bonding new face brickwork to existing	m	5		
PREPARATORY WORK TO EXISTING SURFACES				
Cutting out joints of existing brickwork to receive plaster	m²	23		
Hacking face of existing concrete columns, beams, etc to receive plaster	m²	31		
Making good defects in existing screeded floors	m²	17		
MAKING GOOD OF FINISHES ETC				
Making good face brickwall				
Brickwork at end of half brick wall	m	37		
Brickwork at end of one brick wall	m	49		
Face brickwork to face of wall where half brick cross wall removed	m	33		
Face brickwork to face of wall where one brick cross wall removed	m	44		
Making good "Rhino" gypsum plasterboard ceilings and brandering				
Ceiling in patches	m²	132		
Ceilings where half brick walls removed	m²	76		
Ceilings where one brick walls removed	m²	67		
Making good Vinyl-clad fibre cement ceiling tiles with and including exposed tee suspension system, main and cross tees, necessary hangers, grids, etc				
Ceiling in patches	m²	111		
Ceilings where half brick walls removed	m²	108		
Ceilings where one brick walls removed	m²	66		
Making good vinyl floor tiles				
Floors in patches	m²	77		
Floors where partitions removed	m	151		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Floors where one brick walls removed	m	133		
Floors where one brick walls removed	m	172		
Making good untinted granolithic				
Making good screed where brick walls, etc removed not exceeding 300mm wide	m	142		
Making good cement screeds				
30mm thick floors in patches	m²	220		
Making good screed where brick walls, etc removed not exceeding 300mm wide	m	213		
Making good plaster to face of walls where brick walls, etc removed not exceeding 300mm wide	m	198		
Making good plaster to concrete ceiling where wall removed not exceeding 300mm wide	m	202		
Making good internal cement plaster				
Walls in patches	m²	121		
Concrete ceilings in patches	m²	99		
Walls where half brick walls removed	m²	109		
Walls where one brick walls removed	m²	129		
Concrete ceilings where half brick walls removed	m²	100		
Concrete ceilings where one brick walls removed	m²	87		
Making good white glazed tiles				
Walls in patches	m²	157		
Walls where half brick walls removed	m²	107		
Walls where one brick walls removed	m²	170		
Making good porcelain tiles				
Walls in patches	m²	67		
Carried Forward			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

Brought Forward			R	
Walls where half brick walls removed	m²	54		
Walls where one brick walls removed	m²	38		
Take from store and reinstall existing carports				
Carport, size approximately 32000 x 5000mm on plan and 3000mm high comprising of 100 x 100 x 6mm thick column posts, steel beams, steel purlins, base plates, angles, etc, steel corrugated roof sheeting and reinstating foundations, backfill to existing levels compacted to 98% Mod AASHTO density	No	2		
Carport, size approximately 25000 x 32000mm on plan and 3000mm high comprising of 100 x 100 x 6mm thick column posts, steel beams, steel purlins, base plates, angles, etc, steel corrugated roof sheeting and reinstating foundations, backfill to existing levels compacted to 98% Mod AASHTO density	No	4		
Carried Forward to sectional summary			R	

Section No.2
Bill No.1
DEMOLITIONS, REMOVALS AND ALTERATIONS

	Unit	Qty	Rate	Amount
SECTION NO. 2				
BILL NO. 2				
EARTHWORKS (PROVISIONAL)				
NOTE:				
For Preambles see the Model Preambles for Trades 2008				
edition published by the Association of South African Quantity Surveyors				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
EARTHWORKS				
SUPPLEMENTARY PREAMBLES				
Nature of ground				
Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" and where conditions of a more difficult character are indicated these are separately measured				
Demolitions etc				
Taking down and removing				
Diamond mesh fence with steel posts and droppers	m²	90		
Steel palisade fence with steel posts and droppers	m²	30		
Concrete palisade fence with concrete posts and droppers	m²	60		
Clearvu Fence with steel posts	m	39		
Security fence with 45 degree barbed wire overhang with posts and droppers	m²	31		
Half brick boundary or yard wall	m²	70		
One brick boundary or yard wall	m²	120		
Carried Forward			R	

Brought Forward			R	
Site clearance				
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bushes, etc and remove from site to a dumping site located by the contractor	m²	312		
Excavate and remove topsoil 150mm deep and deposit on site	m³	17		
REMOVAL OF TREES ETC				
Taking out and removing, grubbing up roots and filling in holes				
Tree stump exceeding 200mm and not exceeding 500mm girth	No	14		
Tree stump exceeding 500mm and not exceeding 1000mm girth	No	17		
Tree stump exceeding 1000mm and not exceeding 1500mm girth	No	8		
Tree stump exceeding 1500mm and not exceeding 2000mm girth	No	5		
BULK EXCAVATION, FILLING, ETC				
Open face excavation				
Not exceeding 2m deep	m³	153		
Exceeding 2m and not exceeding 4m deep	m³	87		
Exceeding 4m and not exceeding 6m deep	m³	62		
Extra over bulk excavation in earth for excavation in				
Soft rock	m³	21		
Hard rock	m³	16		
Risk of collapse of excavations				
Sides of bulk excavations not exceeding 1,5m deep	m²	150		
Sides of bulk excavations exceeding 1,5m deep	m²	120		
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	m³	73		
Carried Forward			R	

Section No.2
Bill No.2
EARTHWORKS (PROVISIONAL)

Brought Forward			R	
Compaction of surfaces				
Compaction of ground surface under building including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and adding 2% cement and compacting to 95% Mod AASHTO density	m²	144		
Excavation in earth not exceeding 2m deep				
Under buildings to platforms	m³	55		
Under paving, ramps, steps, etc not exceeding 300mm deep and grade to levels	m²	137		
Extra over bulk excavation in earth for excavation in				
Soft rock	m³	26		
Hard rock	m³	17		
Risk of collapse of excavations				
Sides of bulk excavations not exceeding 1,5m deep	m²	23		
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	m³	19		
Compaction of surfaces				
Compaction of ground surface under building including scarifying for a depth of 150mm, breaking down over size material, adding suitable material where necessary and adding 2% cement and compacting to 95% Mod AASHTO density	m²	138		
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	m³	57		
Carried Forward			R	

Section No.2
Bill No.2
EARTHWORKS (PROVISIONAL)

Brought Forward			R	
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density				
To embankments	m³	60		
Over site to make up levels	m³	121		
In prescribed stock piles on site	m³	27		
EXCAVATION, FILLING, ETC OTHER THAN BULK				
Excavation in platform not exceeding 2m deep				
Trenches	m³	3		
Ground beams	m³	13		
Column bases	m³	29		
Extra over trench and hole excavations in earth for excavation in				
Soft rock	m³	21		
Hard rock	m³	12		
Risk of collapse of excavations				
Sides of trench and hole excavations not exceeding 1,5m deep	m²	4		
Compaction of surfaces				
Compaction of ground surface to bottom of trenches including shaping and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where neccessary and compacting to 95% Mod AASHTO density	m²	1		
Compaction of ground surface under paving including shaping and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where neccessary and compacting to 95% Mod AASHTO density	m²	156		
Keeping excavations free of water				
Keeping excavations free of water	Item	1		
Carried Forward			R	

Section No.2
Bill No.2
EARTHWORKS (PROVISIONAL)

Brought Forward			R	
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density in 150mm layers				
Under ramps	m^3	37		
Under raft slab, etc	m^3	44		
Backfilling to trenches, holes, etc	m^3	58		
Filling G5 material supplied by the contractor and compacted to 95% Mod AASTHO density in 150mm layers				
Under floors	m^3	23		
Under apron paving	m^3	19		
Filling G6 material supplied by the contractor and compacted to 95% Mod AASTHO density in 150mm layers				
Under floors	m^3	20		
Filling G7 material supplied by the contractor and compacted to 95% Mod AASTHO density in 150mm layers				
Under floors	m^3	24		
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^2	97		
Prescribed density tests on filling				
Modified AASHTO Density test	No	50		
Carried Forward to sectional summary			R	

Section No.2
Bill No.2
EARTHWORKS (PROVISIONAL)

	Unit	Qty	Rate	Amount
SECTION NO. 2				
BILL NO. 3				
CONCRETE, FORMWORK AND REINFORCEMENT				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
Cost of tests				
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)				
Formwork				
Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.				
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.				
Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
Carried Forward			R	

Brought Forward			R	
CONCRETE CAST AGAINST EXCAVATED SURFACES				
15MPa/20mm Concrete				
Surface blinding under footings and bases	m³	20		
Strip footings	m³	16		
Holes, bases, etc	m³	10		
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
25MPa/20mm Concrete				
Strip footings	m³	31		
Column bases	m³	23		
Raft slab and beams	m³	20		
In ramps	m³	15		
Surface beds cast in panels on waterproofing (elsewhere measured)	m³	12		
Thickening out surface beds incliding excavation	m³	44		
In steps	m³	29		
REINFORCED CONCRETE				
25MPa/20mm Concrete				
Slabs and beams	m³	35		
Columns	m³	30		
Stairs and landings	m³	25		
Wall beams	m³	102		
Ramps	m³	96		
30MPa/20mm Concrete				
Slabs and beams	m³	157		
Carried Forward			R	

Section No.2
Bill No.3
CONCRETE, FORMWORK AND REINFORCEMENT

Brought Forward			R	
Columns	m^3	169		
Stairs and landings	m^3	105		
Wall beams	m^3	115		
Lift shaft walls (approximately 30m high)	m^3	21		
Feature wall cast in panels (approximately 30m high)	m^3	34		
Slab over lift shaft	m^3	2		
Ramps	m^3	98		
Machine bases	m^3	76		
TEST BLOCKS				
Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	48		
CONCRETE SUNDRIES				
Finishing top surfaces of concrete smooth with a wood float				
Surface beds, slabs etc	m^2	584		
Surface beds, slabs, etc to falls and currents	m^2	232		
Dowel bars				
12mm Diameter high tensile steel dowel 400mm long with one end embedded 200mm deep in side of concrete and other end greased with "epidermix 396" and wrapped in polyethylene sheeting including hole through formwork (drilling elsewhere measured)	No	120		
16mm Diameter high tensile steel dowel 400mm long with one end embedded 200mm deep in side of concrete and other end greased with "epidermix 396" and wrapped in polyethylene sheeting including hole through formwork (drilling elsewhere measured)	No	100		
Drilled holes				
Drill 16mm diameter hole in existing reinforced concrete	No	120		
Drill 20mm diameter hole in existing reinforced concrete	No	100		
Carried Forward			R	

Section No.2
Bill No.3
CONCRETE, FORMWORK AND REINFORCEMENT

Brought Forward			R	
Core through 250mm thick concrete walls, slab, etc. with a diamond saw or other mechanical means to form including grouting with "epidermix 395" liquid grouting compound				
40mm Diameter opening	No	40		
50mm Diameter opening	No	30		
110mm Diameter opening	No	25		
200mm Diameter opening	No	22		
250mm Diameter opening	No	20		
350mm Diameter opening	No	15		
450mm Diameter opening	No	10		
VOID FORMERS				
HIGH DENSITY POLYSTYRENE VOID FORMERS				
Void formers placed vertically in position in formwork to receive concrete				
Void formers size, 280 x 330 x 2650mm high	No	7		
Void formers size, 280 x 330 x 6850mm high	No	1		
Void formers size, 280 x 830 x 2650mm high	No	7		
Void formers size, 280 x 830 x 6850mm high	No	1		
Void formers size, 280 x 970 x 2650mm high	No	7		
Void formers size, 280 x 970 x 6850mm high	No	1		
Void formers size, 280 x 1060 x 2650mm high	No	7		
Void formers size, 280 x 1060 x 6850mm high	No	1		
POLYSTYRENE SHEETS				
1220 X 2500mm wide "Polystyrene xtreme" polystyrene sheet laid to floors to receive concrete				
100mm thick polystyrene sheets laid to floors	m²	385		
Carried Forward			R	

Brought Forward			R	
150mm thick polystyrene sheets laid to floors	m²	546		
ROUGH FORMWORK (DEGREE OF ACCURACY III)				
Rough formwork to sides and soffits of				
Square and rectangular columns	m²	672		
Sides of beams	m²	498		
Wall beams	m²	417		
Edge of slabs not exceeding 300mm high	m	202		
Edge of steps, risers, surface beds, etc not exceeding 300mm high	m	87		
Inner face of lift shaft walls exceeding 29m and not exceeding 30,5m in height above bearing level	m²	90		
Outer face of lift shaft walls exceeding 29m and not exceeding 30,5m in height above bearing level	m²	90		
Isolated beams propped up exceeding 1,5m and not exceeding 3,5m high	m²	26		
Slabs over lift shafts propped up 1,5m and not exceeding 3,5m high	m²	1		
SMOOTH FORMWORK (DEGREE OF ACCURACY II)				
Smooth formwork to sides				
Square and rectangular columns	m²	168		
Sides of beams	m²	87		
Wall beams	m²	289		
Edge of slabs not exceeding 300mm high	m	312		
Edge of steps, risers, surface beds, etc not exceeding 300mm high	m	271		
Feature wall not exceeding 3,5m in height above bearing level	m²	80		
Feature wall exceeding 6.5m and not exceeding 8m in height above bearing level	m²	27		
Feature wall exceeding 30.5m and not exceeding 32m in height above bearing level	m²	111		
Carried Forward			R	

Section No.2
Bill No.3
CONCRETE, FORMWORK AND REINFORCEMENT

Brought Forward			R	
Rectangular column exceeding 6,5m and not exceeding 8m in height above bearing level	m²	66		
Smooth formwork to soffits				
Beams	m²	217		
Wall beams	m²	436		
Slabs not exceeding 3.5m high	m²	102		
Slabs exceeding 3.5m but not exceeding 4.5m high	m²	78		
Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 8m and not exceeding 9.5m high	m²	147		
Smooth formwork to sides and soffits				
Beams propped up exceeding 6,5m and not exceeding 8m high	m²	5		
Smooth formwork to form				
25 x 25mm Vertical chamfer at corner	m	126		
PERMANENT FORMWORK				
2mm thick Bond lok formwork placed in position over steel framing (steel framing elsewhere measured)including self tapping screws, hammer drive screws, kerb flashings, etc.				
Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m²	221		
MOVEMENT JOINTS ETC				
10mm Softboard in vertical expansion joint not exceeding 300mm wide including out top section 10mm deep and filling with bituminous compound	m	987		
Two layers 375micron dpc slip joint not exceeding 300mm wide	m	743		
Carried Forward			R	

Section No.2
Bill No.3
CONCRETE, FORMWORK AND REINFORCEMENT

Brought Forward			R	
Saw cut joints				
4 x 60mm Saw cut joints in reinforced concrete surface beds and seal with polysulphide sealant	m	1,176		
Ream out saw cut to 8 x 40mm deep	m	56		
REINFORCEMENT (PROVISIONAL)				
Mild steel reinforcement to structural concrete work				
8mm Diameter bars	t	8.5		
10mm Diameter bars	t	3.36		
12mm Diameter bars	t	7.1		
16mm Diameter bars	t	6.7		
20mm Diameter bars	t	6.98		
25mm Diameter bars	t	6.2		
High tensile steel reinforcement to structural concrete work				
8mm Diameter bars	t	5.9		
10mm Diameter bars	t	3.36		
12mm Diameter bars	t	4.7		
16mm Diameter bars	t	3.8		
20mm Diameter bars	t	6.98		
25mm Diameter bars	t	2.7		
Fabric reinforcement				
Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m²	842		
Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m²	533		
Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m²	403		
Carried Forward to sectional summary			R	

Section No.2
Bill No.3
CONCRETE, FORMWORK AND REINFORCEMENT

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 4				
PRECAST CONCRETE				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
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				
CEMENT BRICK PAVING				
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	m²	588		
INTERLOCKING PRECAST CONCRETE PAVING				
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.	m²	788		
80mm 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.	m²	466		
Extra over for circular cutting to 60mm thick precast concrete paving blocks	m	20		
Extra over for circular cutting to 80mm thick precast concrete paving blocks	m	10		
Carried Forward			R	

Brought Forward			R	
Kerbs, slabs, etc				
Precast concrete garden kerb to SABS 927 (Figure 21), size 50 x 225mm high in 1000mm lengths, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc.	m	50		
Precast concrete mountable kerbing to SABS 927 (Figure 7), size 150 x 300mm high in 1000mm lengths, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc.	m	35		
But circular on plan to radius not exceeding 2m	m	28		
Precast concrete mountable kerbing to SABS 927 (Figure 7), size 150 x 300mm high in 1000mm lengths, with and including 250 x 180mm thick concrete weathered channel cast in suitable lengths, including all necessary formwork, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc.	m	30		
Precast concrete mountable kerbing to SABS 927 (Figure 7), size 150 x 300mm high in 1000mm lengths, with and including 250 x 180mm thick concrete weathered channel cast in suitable lengths, including all necessary formwork, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, ramming, etc but circular on plan to radius not exceeding 2m	m	20		
Carried Forward to sectional summary			R	

Section No.2
Bill No.4
PRECAST CONCRETE

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 5				
MASONRY				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
BRICKWORK				
Sizes in descriptions				
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.				
Pointing				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole				
Face bricks				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
Wall ties				
Descriptions of solid walls (except if built in English bond) and cavity walls shall be deemed to include metal wall ties complying with SABS 28, and of the butterfly or of the modified PWD type, of the required length with each end built at least 75mm deep into brickwork, spaced at not more than 1m centres alternatively to every third course of brickwork Wire ties to be submitted to the Engineer for approval				
Carried Forward			R	

Brought Forward			R	
Cement Mortar				
Water absorption must not exceed 12%				
Bagging				
Bagging must be a minimum of 5mm thick				
Samples				
Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site				
FOUNDATIONS (PROVISIONAL)				
Brickwork of NFPE bricks (14Mpa nominal compressive strength) in class I (1:3) mortar				
One brick walls	m²	540		
One and a half brick walls	m²	480		
One brick walls circular on plan	m²	320		
SUPERSTRUCTURE				
Brickwork of NFP bricks (7.5Mpa nominal compresive strength) in class II (1:4) mortar				
Piers	m³	144		
Half brick walls	m²	1,080		
Half brick walls inside existing	m²	1,350		
Half brick walls in lining to existing walls	m²	803		
Half brick walls in beamfilling	m²	202		
One brick walls	m²	1,440		
One brick walls circular on plan	m²	256		
One brick walls in gables, parepets, etc	m²	375		
One brick walls in fire wall	m²	94		
Carried Forward			R	

Section No.2
Bill No.5
MASONRY

Brought Forward			R	
WALL CLADDING				
Stone wall cladding (PC Sum of R 300.00/m2 delivered to site) as supplied by Durastone or similar approved				
Split face stone wall cladding to external walls build in mortar as per suppliers instructions	m²	486		
BRICKWORK SUNDRIES				
Brickwork reinforcement				
75mm Wide reinforcement built in horizontally	m	660		
150mm Wide reinforcement built in horizontally	m	350		
Prestressed fabricated lintels				
110 x 75mm not exceeding 3m Lintels	m	150		
110 x 75mm exceeding 3m but not exceeding 4.5m Lintels	m	105		
Turning pieces				
110mm Wide turning piece to lintels etc	m	70		
220mm Wide turning piece to lintels etc	m	65		
Bonding to existing				
Cutting toothings and bonding new brickwork to existing	m²	54		
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	150		
30 x 1,6mm Wall tie 1500mm long with one end shot pinned to concrete and other end build into brickwork	No	120		
Air bricks etc.				
229 x 76mm Clay vermin proof air brick	No	111		
229 x 156mm Clay vermin proof air brick	No	93		
Carried Forward			R	

Section No.2
Bill No.5
MASONRY

Brought Forward			R	
FACE BRICKWORK				
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	m²	27		
Extra over brickwork for face brickwork in foundation walls, ramp, etc	m²	24		
Extra brickwork for face brickwork in soldier course panels	m²	25		
Face brick-on-edge flat lintel course 220mm wide pointed on soffit and both sides	m	88		
Face brick-on-edge flat coping 220mm wide pointed on both sides	m	79		
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	50		
Carried Forward to sectional summary			R	

Section No.2
Bill No.5
MASONRY

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 6				
WATERPROOFING				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
DAMPPROOFING OF WALLS AND FLOORS				
One layer of 375 micron DPC embossed damp proof course				
In walls	m²	235		
Vertical in walls	m²	172		
One layer of 250 micron green waterproof sheeting sealed at laps with tape				
Under surface beds, raft foundations, paving, etc	m²	164		
Primer and two coats "Bostik M6" rubber bitumen emulsion paint				
On concrete floors	m²	202		
On concrete walls and columns in foundation	m²	180		
On concrete walls, columns and beams	m²	180		
On fair faced brickwork	m²	143		
DAMPPROOFING OF FLAT ROOFS, ETC				
Preparation				
Remove existing flat roof waterproofing to receive new (elsewhere) and prepare screed as per manufacturer's instruction	m²	98		
Ditto in turnups, turndowns, edges, etc in narrow widths	m²	117		
Carried Forward			R	

Brought Forward			R	
4mm "Derbigum SP or similar" waterproofing				
On slabs	m²	74		
On turnups, turndowns, edges, etc in narrow widths to walls, etc	m²	87		
Extra over for dressing waterproofing over air conditioning bases , tops, sides, etc	m²	34		
Sealing edges to brickwork or concrete including trowelled mastic bead	m	44		
Bondglass flexible reinforced waterproofing				
On flat roofs	m²	65		
On sloping roofs	m²	60		
On turnups, turndowns, edges, etc in narrow widths to walls, etc	m²	38		
Extra over for dressing waterproofing over air conditioning bases , tops, sides, etc	m²	23		
Sealing edges to brickwork or concrete including trowelled mastic bead	m	30		
Two layers mastic asphalt trafficable waterproofing with coarse building sand or fine stone chips evenly spread and well rolled in				
On flat roofs	m²	44		
On sloping roofs with ? degrees pitch.	m²	140		
On turnups, turndowns, edges, etc in narrow widths to walls, etc	m²	133		
Extra over for dressing waterproofing over air conditioning bases , tops, sides, etc	m²	69		
Sealing edges to brickwork or concrete including trowelled mastic bead	m	76		
Carried Forward			R	

Brought Forward			R	
Sundries				
Circular cutting to waterproofing	m	54		
Dress waterproofing into 150mm pipe outlet	No	40		
PROTECTIVE STONE DRESSING				
19mm Crushed stone dressing evenly spread with larger stones around outlets				
25mm Thick on waterproofing to flat roofs	m²	120		
PROTECTIVE ROOFING PAINT				
Two coats bituminous aluminium paint				
On waterproofing to roofs	m²	170		
Two coats rubberized waterproofing paint				
On inside of existing box gutters	m²	150		
Sundries				
Check, clean and refix gratings to existing rainwater outlets in flat roof waterproofing and clean downpipe and outlets	No	125		
PROTECTIVE ROOFING SHEETING				
Type 40 bituminous fibreglass felt laid loos				
On waterproofing to roofs	m²	150		
JOINT SEALANTS ETC				
Compriband bitumen impregnated foam plastic joint sealing strips				
6 x 10mmmm In joints between frames and walls	m	77		
6 x 15mm In expansion joints	m	45		
Silicone sealing compound including backing cord, bond breaker, primer, etc				
6 x 10mm In saw cut joints in floors	m	50		
6 x 15mm In expansion joints	m	50		
6 x 15mm In expansion joints in soffits including raking out expansion joint filler as necessary	m	45		
Carried Forward to sectional summary			R	

Section No.2
Bill No.6
WATERPROOFING

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 7				
ROOF COVERINGS, ETC				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
Roof Covering				
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.				
Finish for roof sheeting				
The paint finish shall be a full top coat Silicone Polyester and a half coat Grey to the reverse side.				
Fixing of roof sheeting				
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.				
0,6mm Thick flashings				
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).				
Carried Forward			R	

	Brought Forward		R	
	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. 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. **Certificate for Roof Covering** The contractor is to submit a certificate signed by the merchant, stating that the roof covering supplied, complies with the required thickness specified **Guarantee** 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. A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection of roofs by the manufacturer. **Erection** 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. **Safety** 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.			
	Carried Forward		R	

Section No.2
Bill No.7
ROOF COVERINGS, ETC

Brought Forward		R	
Handling and storage 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. **Inspection prior to installation or erection** Before commencing installation, the contractor shall verify that the following items have been checked and accepted: 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. c. The corners of the roof are square and the wall framework is perpendicular or as specified. d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework. e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square. 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. 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. **Protrusion through sheeted surfaces** 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.			
Carried Forward		R	

Brought Forward			R	
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.				
Cleaning of roofs, etc.				
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.				
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.				
ROOF COVERINGS				
Slates				
Roof slates single thickness 420 x 332mm Multi Coloured slates laid in single thickness with a headlap of 90mm on a lapped underlay of bituminous roofing felt faced with 0,1mm aluminium foil over half its width with 150mmheadlaps and slates top nailed through underlay with galvanise clout nails to timber trusses				
Roof covering with pitch not exceeding 25 degrees	m²	700		
Roof covering circular on elevation	m²	294		
Roof covering with pitch not exceeding 25 degrees circular on elevation	m²	574		
Extra on roof covering for double course at eaves including sawn softwood tilting fillet.	m	173		
Circular cutting	m²	374		
Carried Forward			R	

Section No.2
Bill No.7
ROOF COVERINGS, ETC

Brought Forward			R	
Close cut and mitred ridge including bituminous roofing felt soakers and additional battens	m²	361		
Close cut and mitred hip including bituminous roofing felt soakers and additional battens	m²	327		
Close cut and mitred valley including bituminous roofing felt soakers and additional battens	m²	288		
Close cut and mitred vertical angle including bituminous roofing felt soakers and additional battens	m²	243		
Tiles				
420x 332mm concrete tiles nailed with non-corrosive tile nails to timber trusses				
Roof covering with pitch not exceeding 25 degrees	m²	896		
Side cladding to gables etc	m²	582		
Soffit cladding to overhangs etc.	m²	332		
Extra on roof covering for double course at eaves including sawn softwood tilting fillet.	m	100		
Circular cutting	m	68		
Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	55		
Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	35		
Verge capping tiles to match roofing tiles fixed with non-corrosive fixing accessories	m	25		
Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour	No	36		
Purpose made tile to 3-way intersection of ridge with hips bedded and pointed in 1:3 cement mortar tinted to match tile colour	No	36		
PROFILED METAL SHEETING AND ACCESSORIES				
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	m²	520		
Carried Forward			R	

Brought Forward			R	
Brownbuilt Klip-Lok 700 or similar approved fascia external corner trim 616mm girth, three times bent along girth	m	237		
Brownbuilt Klip-Lok 700 or similar approved gable trim 550mm girth, three times bent along girth	m	165		
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	155		
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	140		
Brownbuilt Klip-Lok 700 or similar approved counter flashing 185mm girth, two times bent along girth	m	130		
Brownbuilt Klip-Lok 700 or similar approved broad flute polyclosers to suit roof profile	m	115		
Brownbuilt Klip-Lok 700 or similar approved narrow flute polyclosers to suit roof profile	m	90		
TRANSLUCENT SHEETING				
Ampagard or similar approved polycarbonate 1.25mm thick IBR profile sheeting and white permitted light transmission to be fixed to timber purlins at 2000mm centres all in accordance with manufacturers specifications (timber purlins elsewhere measured)				
Roof covering with pitch not exceeding 25 degrees	m²	160		
ROOF INSULATION				
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	m²	160		
Aerolite insulation				
50mm Insulation closely fitted and laid on top of brandering between roof timbers concurrent with roof covering, all in accordance with manufacturer's instructions	m²	90		
145mm thick "Isotherm" 11.5kg/m3 R value 3.7 polyester thermal insulation				
Insulation laid out over purlins (at approximately 1500mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m²	2,831		
Carried Forward to sectional summary			R	

Section No.2
Bill No.7
ROOF COVERINGS, ETC

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

Brought Forward			R
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 Institute, 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 given in			
the descriptions are per the roof plans and truss layout			
Carried Forward			R

Brought Forward				R
drawings accompanying these bills 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				

ROOF CONSTRUCTION				
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 8100mm long x 1800mm high with entire truss containing 500mm eaves overhang projection on one side and 595mm overhang projection on the other side	No	150		
Carried Forward				R

Section No.2
Bill No.8
CARPENTRY AND JOINERY

Brought Forward			R	
Typical Truss B				
Mono pitched truss construction to 12 degrees pitch comprising of 50 x 228mm SAP grade 7 rafter, 38 x 114mm SAP grade 7 angle bracing, 38 x 114 SAP grade 7 vertical strut including all sprockets, bracing, gangnails, nails, nuts, washers, joints etc, approximate size 3500mm long x 1500mm high with entire truss containing 526mm eaves overhang projection on one side and 595mm overhang projection on the other side	No	120		
Typical Truss C				
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	80		
Typical Truss D				
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	70		
Rafters as Trusses				
50 x 228mm Grade 7 SAP rafters in lengths exceeding 3900mm and not 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 570mm eaves overhang projection	m	450		
Carried Forward			R	

Section No.2
Bill No.8
CARPENTRY AND JOINERY

Brought Forward			R	
50 x 228mm Grade 7 SAP rafters in lengths exceeding 3900mm and not 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 900mm eaves overhang projection on one side and 300mm overhang projection on the other side	m	300		
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	250		
Sawn softwood (Grade 7)				
38 x 114mm Wall plates	m	175		
52 x 76mm Purlins	m	155		
52 x 76mm Wrot soft wood (Grade 7) purlins	m	138		
76 x 76mm Splay cut purlins	m	122		
Sawn softwood (Grade 7)				
50 x 228mm Rafters in lengths not exceeding 2400mm	m	118		
50 x 228mm Rafters in lengths exceeding 3900mm and not exceeding 6600mm	m	108		
50 x 228mm Rafters in lengths exceeding 6600mm	m	94		
50 x 228mm Rafters as beams in lengths exceeding 3900mm and not exceeding 6600mm	m	77		
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)	m²	178		
Carried Forward			R	

Section No.2
Bill No.8
CARPENTRY AND JOINERY

Brought Forward			R	
Sundries				
Two coats creosote on sawn timbers	m²	166		
Splay end of 38 x 152mm rafter down to 38 x 114mm	No	85		
Splay end of 50 x 228mm rafter down to 50 x 114mm	No	72		
Splay end of 50 x 228mm rafter down to 50 x 152mm	No	58		
2.5mm Diameter galvanised wire tie 700mm girth wrapped around rafter and purlins with ends tied together	No	42		
EAVES, VERGES, ETC				
Pressed-fibre cement				
12 x 250mm Barge boards including galvanised steel H-profile jointing strips	m	45		
15 x 250mm Fascia boards including galvanised steel H-profile jointing strips	m	45		
DOORS, ETC				
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 1880mm high	No	20		
Door, size 813 x 2032mm high	No	15		
Door, size 864 x 2032mm high	No	12		
Door, size 915 x 2032mm high	No	10		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	8		
40mm Thick semi-solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
Door, size 813 x 1880mm high	No	13		
Door, size 813 x 2032mm high	No	11		
Door, size 864 x 2032mm high	No	9		
Carried Forward			R	

Section No.2
Bill No.8
CARPENTRY AND JOINERY

Brought Forward			R	
Door, size 915 x 2032mm high	No	6		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	5		
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 1880mm high	No	10		
Door, size 813 x 2032mm high	No	7		
Door, size 864 x 2032mm high	No	5		
Door, size 915 x 2032mm high	No	4		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	3		
40mm Thick solid flush panel doors with sapele hardwood veneer both sides suitable for varnish				
Door, size 813 x 1880mm high	No	5		
Door, size 813 x 2032mm high	No	5		
Door, size 864 x 2032mm high	No	3		
Door, size 915 x 2032mm high	No	4		
Double door in two equal leaves with rebated meeting stiles, size 1510 x 2032mm high	No	2		
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	3		
Carried Forward			R	

Brought Forward			R	
Door, size 813 x 2032mm high with and including 513 x 600mm glazed viewing panel fitted with 15 x 15mm meranti glazing beads on both sides (glazing elsewhere measured)	No	5		
Double door in two leaves with rebated meeting stiles, size 1510 x 2032mm high	No	3		
Bitcon Industries Class A or similar fire doors with 1 hour fire rating				
Rubidor class A fire door size 1417 x 2067mm high including pressed steel frame for 230mm brick wall and preparing frame for door closer and lock	No	2		
Diito but for opening size 1800 x 2067mm high	No	2		
Bitcon Industries Class B or similar fire doors with 2 hour fire rating				
Rubidor class A fire door size 1417 x 2067mm high including pressed steel frame for 230mm brick wall and preparing frame for door closer and lock	No	3		
Diito but for opening size 1800 x 2067mm high	No	2		
FRAMED FRAMES, ETC				
Wrot meranti frames				
44 x 100mm Rebated frames plugged	m	7		
SKIRTINGS				
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	100		
Ditto to treads and risers	m	80		
JOINERY FITTINGS, ETC				
WORKTOPS				
Melamine faced board				
32mm Tops size 300mm wide x 1250mm long with bull nose along one long edge	m	75		
Carried Forward			R	

Section No.2
Bill No.8
CARPENTRY AND JOINERY

Brought Forward			R	
32mm Tops size 600mm wide x 1250mm long with bull nose along one long edge	m	30		
Formica or similar approved				
600 x 16mm thick counter including support structure screwed to walls	m	44		
CUPBOARDS				
Melawood or simmilar approved melamine faced particle board				
16mm cupboard doors	m2	16		
16mm Tops, shelves, sides, divisions, etc	m2	16		
16mm Adjustable shelving	m2	32		
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	8		
Carried to sectional summary			R	

Section No.2
Bill No.8
CARPENTRY AND JOINERY

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 9				
CEILINGS, PARTITIONS AND ACCESS FLOORING				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
CEILING INSULATION				
Aerolite insulation				
50mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m²	126		
NAILED UP CEILINGS				
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	m²	504		
Gypsum coved cornice				
75mm Fixed to ceilings	m	400		
Trapdoors				
600 x 600mm Trap door	No	40		
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	m²	504		
Carried Forward			R	

Brought Forward			R	
Extra over gypsum plasterboard ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	55		
Shadow line wall angle cornices to suspended ceilings				
25mm recessed wall angle plugged	m	25		
6,4mm Nutec 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	m²	220		
Gypsum coved cornice				
75mm Fixed to ceilings	m	50		
SUSPENDED CEILINGS				
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	m²	306		
Suspended Ceilings OWAcoustic Constellation/ Sternbuild 3 - NRC 0.70 OWAcoustic Constellation/Sternbuild 3 biologically absorbable mineral wool ceiling tiles, NRC - 0.70, size 1200 x 600 x 15mm with square-edge and white painted finish, laid on fire rated OWA construct S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm, and all installed to manufacturer's instructions.				
Ceilings suspended not exceeding 1000mm below soffit of concrete slab	m²	2,831		
Ceiling formed with 9.5mm Rhinoboard gypsum plaster ceiling boarding fixed by means of Donn T37 suspension grid at 900 x 300mm spacing and the tees and all the joints of the panels covered with wire mesh scrim, strips stapled on and the ceiling finished with and including 6mm composite layer of Rhinolite plaster applied in two layers				
Ceilings fixed to soffits on concrete	m²	975		
Ecophon Solo Square TECH free hanging pre-painted ceiling panels (M362) including all necessary fittings, etc. (colour to be confirmed by Architect)				
Panel size, 1200 x 1200 x 40mm thick	No	20		
Carried Forward			R	

Section No.2
Bill No.9
CEILINGS, PARTITIONS AND ACCESS FLOORING

Brought Forward			R	
OWA Construct Shadowline W-trim cornices to ceilings plugged and screwed at centres not exceeding 200mm.				
60mm Girth Pre-painted cornices	m	1,901		
Nu-Doric (or similar approved) polystyrene cornices:				
75mm Coved cornice, suitably secured to plastered wall	m	477		
BULKHEADS				
Bulkhead formed of 9.5mm thick plasterboard comprising of one vertical face including all framework, jointing, etc.. with and including 6mm composite layer of Rhinolite plaster applied in two layers all in accordance with Architects specifications				
Plasterboard to form vertical face of bulkhead 80mm high	m	371		
Plasterboard to form vertical face of bulkhead 170mm high	m	540		
Plasterboard to form vertical face of bulkhead 230mm high	m	133		
Plasterboard to form vertical face of bulkhead 250mm high	m	21		
Plasterboard to form vertical face of bulkhead 300mm high	m	136		
Plasterboard to form vertical face of bulkhead 530mm high	m	21		
Sundries				
Allow for light fitting openings, cutting, etc in suspended ceilings	No	5		
PARTITIONS				
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				
Carried Forward			R	

Brought Forward			R	
Partitioning 3000mm high with bottom and top tracks plugged	m	44		
Extra over partition 3000mm high for vertical abutment	No	8		
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	8		
Ditto for double door opening 1610 x 2032mm high, ditto	No	8		
Extra over partition for viewing panel size 1800 x 1200mm high including natural anodised aluminium window frame with 6mm laminated glass glazing	No	6		
GYPWALL FIRESTOP 51/F60S42 PARTITIONING SYSTEMS				
Partitioning 3000mm high with bottom and top tracks plugged	m	33		
Extra over partition 3000mm high for vertical abutment, tee, corner, etc	No	7		
SKIRTINGS, ETC				
4 x 100mm High aluminium skirtings	m	40		
Anodised aluminium door frames				
Anodised aluminium frame size overall 900x 2100mm high fitted with 1.5 pair hinges for door size 813 x 2032mm high (door elsewhere measured)	No	3		
Anodised aluminium frame size overall 1500x 2100mm high fitted with 1.5 pair hinges for door size 1420 x 2060mm high (door elsewhere measured)	No	1		
Anodised aluminium frame size overall 900x 2400mm high fitted with 1.5 pair hinges for door size 813 x 2032mm high (door elsewhere measured) including 820 x 260m high fanlight comprising of 4mm thick glazing	No	5		
Anodised aluminium frame size overall 900x 2550mm high fitted with 1.5 pair hinges for door size 813 x 2032mm high (door elsewhere measured) including 820 x 410m high fanlight comprising of 4mm thick glazing	No	2		
Carried Forward			R	

Section No.2
Bill No.9
CEILINGS, PARTITIONS AND ACCESS FLOORING

Brought Forward			R	
Vitraflex "Classic" Modular Toilet and Shower Cubicle systems consisting of partitions, doors and stiles of waterproof laminated construction with outer skins of vitreous enamel steel sheets bonded to wood particle board, with overall wall thickness not exceeding 20mm including all necessary fittings.Colour of the vitreous enamel steel to be selected from the Vitraflex Standard Colour Range to Architects approval.				
Toilet partitions, etc.				
Partition 590mm wide x 1800mm high	No	4		
Partition 920mm wide x 1800mm high	No	2		
Partition 1600mm wide x 1800mm high	No	18		
Full stile 210mm wide x 1850mm high	No	14		
End stile 125mm wide x 1850mm high	No	4		
Wall stile 105mm wide x 1850mm high	No	14		
Special wall stile 100mm wide x 1850mm high	No	2		
Special wall stile 870mm wide x 1850mm high	No	2		
Stainless steel leg anchors - Single	No	14		
Stainless steel leg anchors - Double	No	4		
Toilet doors fitted with rising butt hinges				
Door 760mm wide x 1800mm high including indicator bolts and keeps, coat hook cum door stop and standard CP thief proof single toilet roll holder.	No	25		
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 Genisis				
ISBA B1 68 x 27mm Aluminium stair nosing	m	170		
50 x 50mm Aluminium angle edging to treads and risers of stairs	m	102		
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	m²	312		
On treads and risers of stairs	m²	121		
300 x 300 x 2,5mm semi-flexible or similar approved vinyl tiles manafactured to SABS specification (alllow a P.C allowance of R 120.00/m2 excluding VAT but includes delivery to site)				
On floors	m²	215		
On treads and risers of stairs	m²	105		
300 x 300 x 2mm Approved fully flexible vinyl tiles similar approved vinyl tiles manafactured to SABS specification (alllow a P.C allowance of R 120.00/m2 excluding VAT but includes delivery to site)				
On floors	m²	346		
Carried Forward			R	

Brought Forward			R	
On treads and risers of stairs	m²	231		
FloorworX surestep or similar aprroved fully flexible heavy duty floor sheeting 2m wide x 2,0mm thick, (alllow a P.C allowance of R 250.00/m2 excluding VAT but includes delivery to site) manufactured in accordance with SANS 786:2000, laid in acrylic adhesive spread with a Vicker A24F trowel at a rate of between 5.5m² and 6.5m² per litre on suitably prepared subfloor (as below) with a hygrometer reading showing a moisture content of less than 70%, with joints welded with a fully flexible coloured Welding Rod to provide a smooth, hygienic sealed finish and rolled with 68kg three section metal roller on completion. Colour of sheeting and welding rods to Architect's approval				
On floors	m²	230		
On treads and risers of stairs	m²	101		
POLISH, SEALERS, ETC				
Two coats wax polish on vinyl flooring	m²	404		
CORNER PROTECTORS, DIVIDING STRIPS, ETC				
4 x 50mm Aluminium cover strip	m	80		
ENTRANCE MAT				
Matco Trio Scraper entrance mat colour Grey (Code: 2402), overall size 1800 x 1600 x 13mm gauge, consisting of polypropylene coarse fibre needle punch alternated with polyamide brush and drying strips, fixed in sunken aluminium mat surround formed of pre-formed matwell frame, complete with mitred edges and corner connectors, bedded into screed (by others), all in accordance with the manufacturers recommendations.	No	1		
Carried to sectional summary			R	

Section No.2
Bill No.10
FLOOR COVERINGS

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 11				
IRONMONGERY				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
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				

Carried Forward			R	

Brought Forward			R	
HINGES, BOLTS, ETC				
Union or similar				
37651LH Indicator bolt	No	80		
Paraplegic type ditto	No	10		
ART 208C91 Flush bolt 150mm	No	15		
CATCHES, CABIN HOOKS, ETC				
Union or similar				
AL8721AS Union aluminium hat & coat hook	No	22		
LOCKS				
Note: Locks to be suitable for and master and sub master key systems				
Union or similar approved				
50mm Padlock	No	80		
Door lock	No	80		
Cylinder profile lock	No	40		
Dead bolt lock 35mm	No	40		
Stainless steel striker plate for double rebated doors	No	20		
Escutcheon profile	No	10		
Escutcheon plate	No	8		
Dust proof strike	No	8		
Lock plate	No	8		
Bathroom lockset with striking plate fixed to metal	No	10		
Carried Forward			R	

Section No.2
Bill No.11
IRONMONGERY

	Brought Forward			R
Three lever deadlock		No	25	
Three lever rebated deadlock		No	20	
Four lever deadlock		No	15	
Four lever rebated deadlock		No	12	
Two lever lockset		No	30	
Two lever lockset with striking plate fixed to metal		No	30	
Two lever rebated lockset		No	30	
Three lever lockset		No	25	
Three lever lockset with striking plate fixed to metal		No	25	
Three lever rebated lockset		No	20	
Four lever lockset		No	30	
Four lever lockset with striking plate fixed to metal		No	15	
Four lever rebated lockset		No	12	
Sundries				
Masterkey		No	5	
Sub-masterkey		No	5	
HANDLES				
Union or similiar				
Pull handle		No	30	
200mm Pull handle		No	30	
	Carried Forward			R

Section No.2
Bill No.11
IRONMONGERY

Brought Forward			R	
Push plate blank	No	20		
Push plate	No	20		
Pull handle on back plate	No	15		
Circular pull handle on 150 x 150 x 3mm thick backplate	No	10		
Handle on back plate	No	8		
PUSH PLATES AND KICKING PLATES				
Natural Anodised aluminium				
800 x 200mm high kick or push plate plate	No	8		
SLIDING GEAR				
Hillaldam Coburn Systems or similar approved				
Foldaside 400 or similar approved sliding and folding door hardware comprising 400 top track and pivots, 400TP hangers, 19LA aluminium bottom channel blocked for guide pivot, 400/19 guide pivot, for 5 (5 right opening) interior top hung sliding and folding timber framed commercial doors not exceeding 2700mm high and 44mm thick, each leaf not exceeding 50kg and not exceeding 900mm wide, with 5 doors each leaf size 736mm wide x 2090mm high, fixed inside jambs of opening.	No	4		
Rollaway 828 or similar approved bottom rolling sliding door hardware comprising 5012 bottom track, 810 channel, 0810 guides, 0828 bottom roller, A200 galvanised side fixing bracket, for single exterior bottom rolling sliding steel framed industrial door not exceeding 4000mm high and 65mm thick, not exceeding 500kg and not exceeding 3000mm wide, with single door size 1840 mm wide x 2100mm high, fixed inside jambs of opening.	No	4		
LETTERS, NAMEPLATES, PUSHPLATES, ETC				
Assa Abloy' or other similar approved				
150 x 150mm engraved aluminium "Electrical" indicator plate	No	10		
150 x 150mm engraved aluminium "Fire hose" indicator plate	No	10		
Carried Forward			R	

Section No.2
Bill No.11
IRONMONGERY

Brought Forward			R	
AL5066-E09/2AS 150 x 150mm engraved aluminium "Telkom" indicator plate	No	10		
150 x 150mm engraved aluminium "male" indicator plate	No	10		
150 x 150mm engraved aluminium "female" indicator plate	No	10		
150 x 150mm engraved aluminium "Disabled" indicator plate	No	10		
152 x 152mm engraved aluminium "male & female" indicator plate	No	10		
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	5		
190 x 384mm indicator plate reference S4 / E4 (with exit and arrow symbol)	No	5		
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	8		
Nameplate 80 x 300mm with ten and not exceeding fifteen numerals or letters	No	8		
Nameplate 80 x 400mm with fifteen and not exceeding twenty numerals or letters	No	8		
BATHROOM FITTINGS				
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	10		
Carried Forward			R	

Section No.2
Bill No.11
IRONMONGERY

Brought Forward			R	
385 x 465 x 200mm stainless steel mounted waste bin installed to manufacturer's specifications	No	10		
Stainless steel paper towel dispenser plugged installed to manufacturer's specifications	No	10		
120 x 210 x 112mm stainless steel liquid soap dispenser	No	10		
266 x 257 x 230mm high Surface mounted splash proof electronic hand-drier, including connecting to electrical (electrical connection elsewhere measured)	No	10		
600mm Long chromium plated towel rails	No	10		
1200mm Long chromium plated towel rails	No	5		
Stainless steel				
Vaal 2No 32mm stainless steel grab rails	No	5		
Vaal 2No 32mm stainless steel back horizontal grab rails	No	5		
Stainless steel corner protectors				
50mm x 50mm x 1,2mm thick corner protectors pugged and screwed to walls four times 1200mm high	No	5		
90mm x 90mm x 1,2mm thick corner protectors screwed to walls four times 1200mm high	No	5		
DOOR CLOSERS				
Union or similar				
DC500 Cam action closer EN1-4SIL	No	10		
DC477H0 Cam action floor spring EN2-4HO	No	10		
720 Gate closer EN2	No	10		
Z770300-012 Z4 300kg Mag lock monitored with ZB300 bracket	No	5		
Carried Forward			R	

Section No.2
Bill No.11
IRONMONGERY

Brought Forward			R	
FD461-DC700 Cam motion mech co-ordinator DD	No	5		
J-881T-SIL Panic latch T bar 900mm wide	No	5		
SUNDRIES				
Union or similar				
38mm Diameter rubber door stop	No	5		
S/S Hat and Coat Hook rubber buffer.	No	5		
S/S Hat and Coat Hook	No	5		
KEY CABINETS, ETC				
300 x 220 x 60mm Key cabinet	No	8		
Standard powder coated first aid metal box overall size 520 x 360 x 155mm high fixed to wall	No	8		
Standard fire escape key box plugged to wall	No	8		
Approved white built-in type medicine cabinet size 380 x 610 x 100mm deep with mirror front and glass shelves and building in tiled or plastered wall including forming recess in brickwork and making good	No	3		
STEEL LOCKERS				
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	3		
PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC				
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	4		
Carried Forward			R	

Section No.2
Bill No.11
IRONMONGERY

Brought Forward			R	
White magnetic writing board 1800 x 1200mm high with and including aluminium rail plugged to wall	No	4		
DRAPES, BLINDS, ETC				
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 600mm high	No	30		
Blinds in suitable widths to suit window, size 600 x 1200mm high	No	20		
Blinds in suitable widths to suit window, size 600 x 1500mm high	No	25		
Blinds in suitable widths to suit window, size 900 x 900mm high	No	15		
Blinds in suitable widths to suit window, size 1200 x 1200mm high	No	10		
Blinds in suitable widths to suit window, size 1500 x 600mm high	No	20		
Blinds in suitable widths to suit window, size 1500 x 1200mm high	No	10		
Blinds in suitable widths to suit window, size 2400 x 1200mm high	No	10		
HAND DRYERS				
Franke HF2400HD (or other approved) 1,2/1,5mm thick satin finished stainless steel automatic hands free hand dryer (Code: 359961), size 280 x 207 x 245mm high with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws, 200 W motor connected to 230/240 volt power supply. With 5 year warranty.	No	22		
Carried to sectional summary			R	

Section No.2
Bill No.11
IRONMONGERY

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 12				
METALWORK				
NOTE: For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
STRUCTURAL STEELWORK				
SUPPLEMENTARY PREAMBLES				
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.				
WELDED STEEL FRAMEWORK, COLUMNS, ETC				
Canopy roof around gaurdhouse				
Mild steel				
100 x 100 x 3mm Thick tubular section columns	m	33		
100 x 100 x 3mm Thick tubular section beams	m	30		
Carried Forward			R	

Brought Forward			R	
Extra over 100 x 100 x 3mm Thick tubular section for welded angle tee, end, etc	No	12		
50 x 50 x 3mm Tubular section purlins	m	120		
Extra over 50 x 50 x 3mm tubular section steel for welded angle, tee, end, etc	No	50		
Plates, cleats, etc				
300 x 300 x 16mm Thick base plate four times holed for M10 bolts (elsewhere) welded on	No	20		
100 x 100 x 3mm Thick end plate twice holed for M10 bolts (elsewhere) welded on	No	20		
Bolts, etc				
M10 x 450mm holding down bolt cast in concrete	No	25		
M10 x 100mm expantion bolt	No	30		
METALWORK				
WELDED SCREENS, GATES, ETC				
Gates				
Single gate 860 x 2180mm high	No	8		
Double gate 1650 x 2180mm high	No	6		
Window burglar bar screens				
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	4		
Ditto size 1200 x 900mm high overall	No	4		
Carried Forward			R	

Section No.2
Bill No.12
METALWORK

Brought Forward			R	
PREPAINTED PROPRIOTORY SECURITY SCREENS, GATES, ETC				
Screens and gates				
Trellidor or similar approved expandable security gate with and including all ironmongery, overall size 1000 x 2090mm high	No	4		
Trellidor or similar approved expandable security gate with and including all ironmongery, overall size 1500 x 2090mm high	No	4		
Trellidor or similar approved expandable security gate with and including all ironmongery, overall size 3800 x 2090mm high	No	2		
PRESSED STEEL DOOR FRAMES				
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	4		
Frame for door 813 x 2032mm high with three 100mm steel hinges per leaf	No	8		
Frame for door 1626 x 2032mm high with three 100mm steel hinges per leaf	No	8		
1,6mm Double rebated frames suitable for one brick walls				
Frame for door 813 x 2032mm high with two hinges	No	8		
Frame for door 1626 x 2032mm high with three 100mm steel hinges per leaf	No	8		
STEEL WINDOWS, DOORS, ETC				
Standard residential type steel windows				
Window E4 size 1511 x 645mm high	No	5		
Window C4 size 1511 x 949mm high	No	5		
Window ES7 size 1022 x 654mm high	No	5		
Window E1 size 533 x 654mm high	No	5		
Window NC6 size 280 x 924mm high	No	5		
Window NC6F size 280 x 924mm high	No	5		
Carried Forward			R	

Section No.2
Bill No.12
METALWORK

Brought Forward			R	
Window NC5F size 508 x 924mm high	No	5		
Window NC4 size 1486 x 924mm high	No	5		
Window NC10 size 1486 x 924mm high	No	5		
Window NC4F size 1486 x 924mm high	No	5		
Window C1 size 508 x 924mm high	No	5		
Window C2 size 997 x 924mm high	No	5		
Window C2F size 997 x 924mm high	No	5		
Window NE1 size 533 x 654mm high	No	5		
Window NE2 size 1022 x 654mm high	No	5		
Window NE7 size 1022 x 654mm high	No	5		
Window D2 size 1022 x 1245mm high	No	5		
Window D2F size 1022 x 1245mm high	No	5		
Window D4 size 1511 x 1245mm high	No	5		
Window ND54 size 1511 x 1540mm high	No	5		
Window ND54F size 1511 x 1540mm high	No	5		
Window ND511 size 2000 x 1540mm high	No	5		
STEEL ROLLER SHUTTERS ETC				
Serranda or other approved interlocking square slatted chromadek finished roller shutters fixed to in position as per manufacturer instructions				
Slatted roller shutter door for 2500 x 2095mm high opening	No	3		
Slatted roller shutter door for 2000 x 1800mm high opening	No	3		
Carried Forward			R	

Section No.2
Bill No.12
METALWORK

Brought Forward			R	
Slatted roller shutter door for 950 x 2100mm high opening	No	3		
Electrically operated powder coated perforated steel roller shutter (with built in lintol box) with curtain roller shutter to suit opening size 1725mm x 1000mm height	No	6		
Electrically operated powder coated perforated steel roller shutter (with built in lintol box) with curtain roller shutter to suit opening size 3500mm x 3000mm height	No	1		
ALUMINIUM WINDOWS, DOORS, ETC.				
ALUMINIUM WINDOWS				
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 accosiation 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 4000 x 1530mm high overall comprising of six fixed panes, size 666 x 595mm high; two fixed panes size 666 x 935mm high and four side hung panes size 666 x 935mm high.	No	8		
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	6		
Window panel, size 1200 x 595 high overall comprising of two top hung panes size 600 x 595mm high.	No	8		
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	8		
Window panel, size 2000 x 2720mm high overall comprising of three fixed panes size 640 x 2720mm.		No	6		
Window panel, size 4670 x 1530mm high overall comprising of two fixed panes size 900 x 595mm; one fixed pane size 2870 x 595mm high; one fixed 2870 x 935mm high and two side hung panes 900 x 935mm high.		No	4		
Window panel, size 1370 x 1530mm high overall comprising of two fixed panes size 685 x 595mm; and two side hung panes 685 x 935mm high.		No	4		
Window panel, size 960 x 1530mm high overall comprising of one fixed pane size 960 x 595mm; and one side hung panes 960 x 935mm high.		No	6		
Window panel, size 600 x 595mm high overall comprising of one side hung pane.		No	6		
Window panel, size 1200 x 1530mm high overall comprising of two fixed panes size 600 x 935mm; and two top hung panes 600 x 595mm high.		No	4		
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	4		
Window panel, size 2760 x 2210mm high overall comprising of six fixed panes size 920 x 1105mm high.		No	4		
Window panel, size 900 x 1530mm high overall comprising of one fixed pane size 900 x 630mm; and one top hung pane 900 x 900mm high.		No	4		
Window panel, size 1800 x 595mm high overall comprising of two top hung panes 900 x 595mm high.		No	6		
Window panel, size 4360 x 1530mm high overall comprising of four fixed panes size 1090 x 595mm high; and two top hung panes 1090 x 935mm high.		No	6		
Window panel, size 2400 x 595mm high overall comprising of one fixed pane size 800 x 595mm; and two top hung panes 800 x 595mm high.		No	6		
	Carried Forward			R	

Section No.2
Bill No.12
METALWORK

Brought Forward			R	
Window panel, size 1980 x 2720mm high overall comprising of two fixed panes size 990 x 595mm; two fixed panes size 990 x 1060mm high and two side side hung panes 990 x 1065mm high.	No	6		
Window panel, size 960 x 1530mm high overall comprising of one fixed pane size 960 x 595mm; and one side hung pane 960 x 935mm high.	No	6		
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	4		
Double door 1613 x 2100mm high with 700mm high fixed ganlight over	No	4		
Shopfront 4000 x 2800mm high overall with overall with 1613 x 2100mm double door	No	4		
STRONG ROOM DOORS, WALL SAFES AND VENTILATORS				
Austen P125 Catergory 1 stronroom doors, etc suitable for one brick walls fixed to brickwork or concrete				
Standard safe door stop fixed to wall	No	4		
Austen P125 Catergory 1 strong room door and frame for opening size 950 x 1970mm high overall, with a mass of 230kg with fixing anchors built into one brick wall, complete with seven lever lock, keys and chromium plated fittings and painted with one coat of rust resistant paint before delivery to site	No	4		
TRANSFORMER DOORS ETC.				
Approved transformer type doors including frames fixed in strict accordance to the manufacturers specifications				
Standard double door, size 900 x 21000mm high including 670 x 670mm louvre panel with and including security mesh and frame suitable for one brick wall	No	1		
Carried Forward			R	

Section No.2
Bill No.12
METALWORK

Brought Forward			R	
Standard double door, size 1800 x 21000mm high including 670 x 670mm louvre panel with and including security mesh and frame suitable for one brick wall	No	2		
FOLDING AND STAKING DOORS				
Supply and install Hufcor 3000 series operable partition, with an STC 29/32 to suit opening size 2390mm width x 2125mm height Panels covered with stone fabric finish including necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in powder coated aluminium surround frame. Suspended track and carriers (type 28 centre stacking) including all necessary suspension components and acoustic baffle to specified STC class of panels fitted to and above the track in the ceiling void.	No	3		
STEEL HANDRAILS, BALUSTRADES, ETC				
Welded handrails to stairs and balcony				
Mild steel balustrading formed with 43mm diameter x 3mm thick stanchions at 1500mm centres, 33mm diameter x 2,5mm thick top and bottom rails, filled with 15mm diameter vertical bars at 125mm centres, finished on all surfaces with an epoxy coated painted finish and erected complete in strict accordance with the manufacturers instructions				
Horizontal top mounted balustrading 1000mm high bolted to brick or concrete	m	40		
Raking top mounted balustrading 1000mm high ditto	m	40		
Extra over for curved L-intersection between horizontal and raking balustrading	No	8		
Extra over for closed end to horizontal balustrading	No	8		
Extra over for closed end to raking balustrading	No	8		
Carried to sectional summary			R	

Section No.2
Bill No.12
METALWORK

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 13				
STRUCTURAL STEELWORK				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
Structure				
The following steel columns, rafters and beams in frames hoisted and bolted together in position approximately 9,500m above finished floor level. members with welded plates and angle sections in connections:				
406 x 140 x 67kg/m UB Column	t	4.3		
203 x 133 x 25kg/m UB Column	t	3.7		
406 x 140 x 67kg/m UB Rafter	t	3.1		
305 x 102 x 28kg/m UB Rafter	t	2.8		
305 x 165 x 40 kg/m UB Gable Column	t	1.8		
PC 230 x 90 PFC False Rafter	t	3.3		
200 x 75 x 20 x 3,0 CF lipped channel in purlin.	t	2.5		
150 x 75 x 20 x 2,5 CF lipped channel in purlin.	t	2.5		
40 x 40 x 4L SAG Angle	t	2.2		
Ancillary members:				
70 x 70 x 6L X - Bracing	t	1.7		
70 x 70 x 6L Knee Bracing	t	1.4		
165.1 x 3.5 CHS eaves tie	t	1.2		
Carried Forward			R	

Brought Forward			R	
100 x 4,0 CHS eaves knee	t	0.95		
100 x 4,0 CHS eaves tie	t	0.87		
THE FOLLOWING IN STAIRCASE				
Structural Steel Staircase				
Steelwork comprising of "I section" beams, hollow section rafters, purlins, platework, grating, connection plates, bolts, etc. in construction of entire structural steel staircase	t	17.00		
Sundries				
Dry pack grouting 25mm thick under steel base plate to top of column size 400 x 300mm.	No	30		
Box in formwork to form pocket size 200 x 50 x 100mm deep on top of concrete wall beam.	No	20		
PAINTWORK ETC. TO NEW WORK				
ON STRUCTURAL STEEL				
Apply one coat syncromate primer in accordance with SABS 679 1972, apply one coat multi purpose undercoat in accordance with SABS 681 and apply two coats of alkyd base enamel in accordance with SABS 630 (colour to Architects approval)				
On columns and beams	t	34.00		
On structural steel trusses	t	36.00		
On channel, bracing, etc..	t	91.00		
On plates. bolts	t	11.00		
On structural steel staircase	t	17.00		
PAINTWORK TO PREVIOUSLY PAINTED WORK				
ON STRUCTURAL STEEL				
Prepare surface and apply one coat Professional all purpose undercoat and two coats Professional eggshell enamel paint.				
On plates	m²	6		
Carried to sectional summary			R	

Section No.2
Bill No.13
STRUCTURAL STEELWORK

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 14				
PLASTERING				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SCREEDS				
Screeds wood floated on concrete				
30mm Screed to recieve tiles, carpeting, etc (elsewhere)	m²	504		
50mm Screed to recieve tiles, carpeting, etc (elsewhere)	m²	408		
30mm Screed on stairs, edges, risers, etc in narrow widths	m²	365		
30mm Screed on stairs, edges, risers, etc in narrow widths inside existing	m²	302		
Average 30mm thick on concrete to falls and currents to receive flat proof waterproofing	m²	215		
GRANOLITHIC				
Untinted granolithic on concrete				
30mm Thick on floors and landings	m²	245		
50mm Thick on floors and landings	m²	210		
INTERNAL PLASTER				
Cement plaster on brickwork				
On walls in backing to receive wall tiling (elsewhere)	m²	684		
On walls in narrow widths in backing to receive wall tiling (elsewhere)	m²	349		
On walls	m²	349		
On walls in narrow widths	m²	255		
Carried Forward			R	

Brought Forward			R	
Two coat plaster on brickwork				
On walls	m²	1,368		
On walls in narrow widths	m²	698		
EXTERNAL PLASTER				
Cement plaster on brickwork				
On walls	m²	2,736		
On walls in narrow widths	m²	1,396		
On walls in panel between columns	m²	1,396		
Cement plaster on concrete				
On columns, beams, etc in narrow widths	m²	445		
On columns, beams, etc in narrow widths to existing	m²	245		
On soffits of concrete slabs	m²	130		
On soffits of concrete slabs to existing	m²	60		
Two coat plaster on brickwork				
On walls	m²	1,368		
On walls in narrow widths	m²	698		
Rough cast plaster on brickwork				
On walls	m²	547		
On walls in narrow widths	m²	192		
Fine rough cast plaster on brickwork				
On walls	m²	460		
On walls in narrow widths	m²	234		
Carried to sectional summary			R	

Section No.2
Bill No.14
PLASTERING

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 15				
TILING				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
Descriptions				
Tiling on brick or concrete walls, columns, etc and floors to be fixed in stict accordance with the manufacturer's instructions and to include for adhesives, bedding and grouting complete to plastered or screeded surfaces (measured elsewhere)				
FLOOR TILING				
300 x 300 x 8mm Ceramic floor tiles of an approved colour, allow the sum of R 170.00 (one hundred and seventy rand) per m2 ex factory/supplier laid on screed (elsewhere) with tile bedding and flush pointed with epoxy mortar				
On floors and landings	m²	504		
100mm High tile skirting	m	130		
600 x 600 x 11mm Polished porcelain tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site),fixed with adhesive and flush pointed with tinted waterproof jointing compound				
On floors and landings	m²	120		
100mm High tile skirting	m	40		
300 x 300 x 15mm Natural slate tiles of an approved colour, allow the sum of R 220.00 (Two hudred and twenty rand) per m2 ex factory/supplier fixed with adhesive to plaster (elsewhere) on brickwork or concrete and pointed with matching cement grout				
Cut high tile riser 175mm high	m	30		
Carried Forward			R	

Brought Forward			R	
Tile to treads 300mm wide	m	20		
Sundries				
15 x 15 x 2mm Aluminium Edge strip	m	15		
U-Shaped aluminium expansion joint strip in tiling	m	10		
WALL TILING				
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	m²	726		
On narrow widths	m²	288		
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	m²	360		
On narrow widths	m²	165		
600 x 600mm Porcelain tiles (PC Amount of R250,00/m2 excluding VAT delivered to site) fixed with adhesive to plaster (plaster elsewhere measured) and flush pointed with and including TAL epoxy grout all in accordance with Architects approval				
On walls	m²	726		
On narrow widths	m²	36		
Fedglass back- painted 6mm clear toughened safety glass splashback, colours to match Plascon (or similar approved)				
On splashbacks	m²	11		
Carried to sectional summary			R	

Section No.2
Bill No.15
TILING

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 16				
PLUMBING AND DRAINAGE (PROVISIONAL)				
NOTE:				
For Preambles see the Model Preambles for Trades 1999 edition published by the Association of South African Quantity Surveyors				
SUPPLEMENTARY PREAMBLES				
Vitrified clay pipes etc				
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				
uPVC pipes and fittings				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
Soil, waste and vent pipes and fittings shall be solvent weld jointed				
uPVC pressure pipes and fittings				
Pipes for water supply shall be of the class stated				
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
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				
Carried Forward			R	

Brought Forward		R	
Copper pipes Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground Reducing fittings Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained Wire gratings Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings Exposed concrete surfaces Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster Excavations No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling Soft rock and "hard rock" shall be as defined in "Earthworks" Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
Carried Forward		R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:				
SABS 1200 L : Medium-pressure pipelines				
LD : Sewers				
LE : Stormwater drainage				
Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200				
DB : Earthworks (Pipe trenches)				
Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200				
LB : Bedding (Pipes).				
Unless otherwise described bedding of rigid pipes shall be class B bedding				
Flush pans				
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary				
Stainless steel basins, sinks, wash troughs, urinals, etc				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable				
Waste unions				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings				
RAINWATER DISPOSAL				
0.6mm Galvanised sheet iron with "Chromadek" or similar approved finish one side				
100 x 125mm Eaves gutters with beaded front edge	m	650		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Extra over eaves gutter for corner	No	38		
Extra over eaves gutter for angle	No	16		
Extra over eaves gutter for outlet for 100 x 75mm diameter pipe	No	12		
100 x 75mm Rainwater down pipes	m	90		
Extra over rainwater pipe for 500mm eaves offset	No	10		
Extra over rainwater pipe for shoe	No	10		
Fullbore cast iron outlets				
100mm Diameter cast iron two-way type roof outlet with removable domed grating and cast into concrete slab, including dishing around same	No	4		
100mm 45 Degree side outlet	No	2		
100mm 90 Degree side outlet	No	3		
uPVC pipes				
110mm Diameter rainwater pipes fixed to concrete columns	m	100		
50mm Diameter x 300mm long spout pipe	No	40		
80mm Diameter rainwater pipes fixed to walls	m	80		
Extra over for uPVC for fittings				
80mm Bend	No	7		
110mm Bend	No	20		
STORMWATER DRAINAGE				
Sub-soil Drainage				
110mm Diameter perforated pitch fibre sub surface drainage pipes against retaining wall laid in and including 14mm crushed stone encasing size 300 x 300mm and "Bidum U14" geofabric filter blanket wrapped around encasing with 150mm side and 300mm end laps including stitching	m	52		
Extra for 110mm bend	No	5		
Extra for 110mm junction	No	3		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Gratings, covers, etc..				
560mm Diameter Heavy duty concrete type 2A manhole cover and frame	No	1		
520 x 790mm heavy duty stormwater grating and frame	No	2		
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	5		
Class 50D concrete pipes				
450mm Pipes laid in and including trenches not exceeding 1000mm deep	m	100		
Filling, etc.				
Selected fill material compacted to 90% modified AASHTO density in uniform layers and sides of pipe	m^3	60		
G7 material supplied by the contractor compacted in uniform layers to 90% modified AASHTO density	m^3	45		
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	8		
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	10		
Gratings, covers, etc.				
600 x 600mm Medium duty cast iron stormwater grating and frame	No	10		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
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	6		
Precast concrete channels				
460 x 170mm Channels with 310 x 110mm deep segmental channel	m	35		
SOIL DRAINAGE				
Excavation not exceeding 2m deep for drain trenches	m^3	90		
Backfilling to drain trenches compacted to 95% Mod AASHTO density	m^3	90		
19mm Crushed stone encasing to pipes	m	100		
Geofabric filter blanket wrapped around agricultural pipes with 50mm sid and 300mm end laps including stitching	m	100		
Geofabric filter blanket wrapped around stone encasing with 150mm side and 300mm end laps including stitching	m	50		
Slotted uPVC agricultural pipes laid in stone encasing	m	25		
"Santar" perforated pitch fibre pipes laid in stone encasing	m	20		
UPvC				
110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	10		
110mm Pipes laid in and including trenches not exceeding 1 m deep	m	15		
110mm Pipes laid in and including trenches exceeding 1 m not exceeding 2m deep	m	8		
UPvC				
110mm Bend	No	30		
110mm Inspection bend	No	12		
110mm Rodding eye	No	12		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
110mm Inspection junction	No	12		
110mm Junction	No	10		
110mm Gulley trap with gulley head and precast surround	No	1		
Work in connection with existing				
Search, locate and break into existing manhole not exceeding2m 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	4		
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	10		
110mm Pipes laid in and including trenches not exceeding 1 m deep	m	25		
160mm Diameter pipes laid in earth or earth filling not exceeding 1000mm deep	m	18		
160mm Diameter pipes laid in earth or earth filling exceeding 1000 and not exceeding 2000mm deep	m	15		
Extra over HDPE pipes for fittings				
110mm Rodding eye	No	9		
110mm Bend	No	10		
110mm Inspection bend	No	5		
110mm Inspection junction	No	6		
110mm Junction	No	4		
160mm Bend	No	2		
160mm Access bend	No	2		
160m Junction	No	2		
160mm Reducing junction	No	3		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
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	8		
Manhole exceeding 1000 and not exceeding 2000mm deep to invert	No	5		
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	5		
Standard double bowl sink 1850 x 650 x 1060mm high	No	5		
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	5		
Cameo 595 x 455mm White vitreous china vanity wash hand basin with one tap hole plug, waste, plug and chain and concealed brackets	No	5		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Hibuscus 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	5		
Hibiscus 772654/772656Closed coupled white vitreous china pan with P trap complete and preparation for flushing valve (elsewhere) and matching flush pipe and heavy duty white double flap seat	No	10		
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	10		
Lavatera White vitreous flat back wall urinal with domical grating with spreader and two hanger brackets (flushing valve elsewhere)	No	8		
Glazed ceramic fittings				
White Laufen Pro Clinic (or other approved) ceramic wall hung pan (Code:LAWHPR20954) including universal toilet cover and seat (Code:LAWH93952), size 365 x 360 x 700mm, fixed to wall with cradle bracket or similar, top of seat to be 480 - 500mm above finished floor level (concealed cistern elsewhere measured)	No	9		
White Laufen Pro (or other approved) ceramic wall hung pan (Code: LAWHPR20954) including universal toilet cover and seat (Code: LAWH93952 (8.9395.2)), size 365 x 360 x 700mm, fixed to wall with cradle bracket or similar, top of seat to be 480 - 500mm above finished floor level (concealed cistern elsewhere measured)	No	73		
Duravit ceramic Starke 3 (or other approved) urinal concealed inlet urinal colour White, size 350 x 350 x 575mm, bolted to wall with stainless steel bolts and sealed with abe Dow Corning acetoxy silicone sealant (cistern elsewhere measured)	No	12		
Stainless steel				
Franke Quinline Model QLX622 (or other approved) stainless steel double end bowl inset sink (Code: 101.0039.868), overall size 1500 x 500mm with two 343 x 410 x 153mm deep bowls, fitted onto worktop, including 90mm waste fitting and Hansgrohe Talis SÂ² chrome single lever kitchen mixer. (worktop elsewhere measured)	No	9		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Franke Grade 304 18/10 stainless steel model DSGC drip sink (or other approved), size 535 x 454 x 150mm deep with pressed drip sink bowl, with 100mm high integral splashback, including 40 x 40 x 10mm thick hinged bucket grid, connected to 15mm water supply, fixed to wall on 40 x 20mm square stainless steel brackets and bolted to wall with M6 stainless steel expanding bolts, 600mm from finished floor level.	No	9		
HOT WATER SERVICES				
Hydroboil				
Zip stainless steel 10 litre Hydroboil, size 340 x 205 x 630mm high with instant boiling water, two way tap control, SK3 drip tray (Code:390019) with brackets, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee (guarantee to handed over to Principal Agent)	No	9		
WASTE UNIONS ETC				
Brass				
32mm Basin waste union	No	10		
38mm Urinal waste union with chromium plated dome	No	8		
38mm Sink waste union	No	10		
TRAPS ETC				
uPVC				
38 x 50mm Deep seal trap	No	14		
38 x 50mm Shower trap	No	12		
Chromium plated				
38 x 50mm Bottle trap	No	10		
TAPS, VALVES, ETC				
Brass (including couplings to copper piping)				
15mm Stop cock	No	60		
22mm Stop cock	No	20		
22mm Garden tap	No	10		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
25mm Line strainer	No	10		
50mm Line strainer	No	10		
25mm Wheel valve	No	12		
50mm Wheel valve	No	12		
Flushmaster FM1.000 toilet flush valve	No	10		
Flushmaster FJ6.000 urinal flush valve	No	10		
PB1.10RB vacuum breaker	No	8		
PA3.132 "Kwikflo" 400 kPa pressure reducing valve	No	7		
Cobra Watertech or similar				
15mm Code 211 Pillar tap	No	10		
15mm Code KM 2.100 self closing pillar tap	No	10		
15mm Bollostop valve	No	8		
15mm Flexi connector	No	5		
15mm "CP 166041" Sink mixer with CP extension piece and wall flange	No	6		
15mm "1003/125" Fullway gate valve	No	8		
42mm Ditto	No	16		
Hansgrohe (Project) (or other approved) Focus Mixer Brass, Electronic Basin Mixer (CODE: HGFE31174) with Infrared sensor technology adjustable optical range of infrared sensor (2 modes), theft proof aerator manual flow stop, mixer connected to 230V power supply.	No	43		
Hansgrohe Talis SÂ² (or other approved) chrome single lever kitchen mixer (Code: 14870000).	No	9		
Geberit 120mm Kombifix (or other approved) concealed cistern for wall hung WC, front actuated with Sigma 20 dual-flush actuator in brushed chrome finish with 230V mains power supply, including flush pipe and pan connector, water supply connection with angle stop valve, netting for direct plastering, protection cover for service opening and protection cover for flush pipe, fixed with included fastening materials inside solid wall from 120mm up to 220mm, all with Geberit conditional guarantee (WC elsewhere measured)	No	39		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Geberit HyTouch Sigma 10 (or other approved) pneumatic urinal actuator finished in stainless steel brushed/polished/brushed including universal installation set, flush pipe, urinal set and urinal trap.	No	12		
Cobra Watertech Carina (or other approved) 15mm chrome bibtap (Code: 106CA-15)	No	9		
Cobra Watertech (or other approved) 15mm standard brass hose bibtap (code: 108-15) with wingnut, lining and 20mm hose union	No	4		
15mm stoptap complete	No	116		
SANITARY PLUMBING				
uPVC pipes				
50mm Pipes	m	42		
75mm Diameter pipes	m	684		
110mm Pipes	m	220		
110mm Diameter pipes vertically fixed to walls	m	80		
110mm Pipes laid in and including trenches not exceeding 1m deep	m	12		
Extra over uPVC pipes for fittings				
50mm Bend	No	80		
75mm Bend	No	228		
110mm Bend	No	132		
50mm Inspection bend	No	456		
75mm Inspection bend	No	342		
110mm Inspection bend	No	150		
50mm Junction	No	570		
75mm Junction	No	228		
110mm Junction	No	10		
50mm IE junction	No	684		
110m IE junction	No	8		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
50mm Vente valve	No	40		
110mm IE reducing juntion	No	12		
110mm Pan connector	No	12		
110mm Two way vent valve	No	10		
110 x 50mm Reducer	No	228		
Extra over HDPE pipes for fittings				
110mm Bends	No	75		
110mm IE bend	No	80		
110mm IE junction	No	65		
110 x 50mm Reducer	No	45		
110mm Access reducing junction	No	66		
110mm Socket adaptor	No	120		
110mm "GI two-way" vent valve	No	4		
Sundries				
Testing waste pipe system	Item	1		
WATER SUPPLIES				
HDPE polyethelene Class 12 piping with butwelding type pressure fittings				
50mm Pipe and excavation not exceeding 1m deep	m	70		
Extra over HDPE polyethylene pipes for fittings				
50mm Fittings	No	15		
Galvanised mild steel screwed and socketed pipes and fittings				
25mm Pipes	m	80		
32mm Pipes	m	40		
Extra over galvanised mild steel pipe for fittings				
25mm Fittings	No	10		
32mm Fittings	No	10		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
Class 1 copper pipes				
15mm Pipes	m	20		
22mm Pipes	m	20		
28mm Pipes	m	20		
35mm Pipes	m	288		
42mm Pipes	m	288		
Extra over class 0, 1 or 2 copper pipes for capillary or brass compression fittings				
15mm Fittings	No	10		
22mm Fittings	No	10		
28mm Fittings	No	110		
35mm Bend	No	142		
35mm Inspection bend	No	138		
35mm Tee	No	114		
35mm Junction	No	128		
35mm Reducing junction	No	144		
42mm Bend	No	138		
42mm Inspection bend	No	132		
42mm Tee	No	128		
42mm Junction	No	124		
42mm Reducing junction	No	124		
ELECTRIC WATER HEATERS				
Kwikot or similar				
100 Litre solar geyser horizontal roof mounted, with extended solar panels to roofs complete by specialist	No	4		
150 Litre solar geyser horizontal roof mounted, with extended solar panels to roofs complete by specialist	No	2		
Drip tray with overflow pipe	No	6		
Carried Forward			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

Brought Forward			R	
10litre under basin geyser	No	6		
Sundries				
Connect 110mm Upvc to existing including fittings	No	12		
Connect 50mm HDPE to existing water supply including fittings	No	12		
FIRE APPLIANCES ETC				
Everyway or similar hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	3		
1kg Dry chemical fire extinguisher	No	10		
2,5kg Dry chemical fire extinguisher	No	10		
4,5kg Dry chemical fire extinguisher	No	10		
9kg Dry chemical fire extinguisher	No	8		
Fire Hydrant complete	No	8		
TESTING				
Testing water and fire pipe system	Item	1		
HOLES ETC				
Fair cutting and fitting of facings for pipe not exceeding 50mm diameter				
Wall facings	No	20		
Fair cutting and fitting of facings for pipe not exceeding 110mm diameter				
Wall facings	No	20		
Carried to sectional summary			R	

Section No.2
Bill No.16
PLUMBING AND DRAINAGE (PROVISIONAL)

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 17				
GLAZING				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
GLAZING TO STEEL WITH PUTTY				
4mm Clear float glass				
Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing	m²	10		
4mm Obscure glass				
Panes exceeding 0,1m2 and not exceeding 0,5m2 in existing	m²	10		
6mm Clear float glass				
Louvre blade 150 x 900mm	No	10		
6mm Laminated safety glass to alumnium frames including beads, etc				
Panes exceeding 0,5m2 and not exceeding 1m2 in existing	m²	28		
6mm Normal strength georgian wired safety glass including glazing beads, etc				
Panes exceeding 0,1m2 and not exceeding 0,5m2	m²	90		
Sundries				
Clean existing glazing with an approved detergent to remove all stains, old paint, dirt, etc	m²	45		
Clean existing glazed fanlights with an approved detergent to remove all stains, old paint, dirt, etc	m²	45		
Clean vertical adjustable horizontal louvre blades 150mm wide with polished edges to fanlight over door size 813 x 530mm high with and including mechanical fanlight opener and cleat	No	20		
Carried Forward			R	

Brought Forward			R	
Clean and service vertical adjustable horizontal louvre blade window 900 x 545mm high including mechanical opener and cleat	No	20		
Clean existing glazing and framework to existing alumnium windows, doors, etc	No	20		
TOPS, SHELVES, DOORS, MIRRORS, ETC				
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	10		
Mirror 600 x 600mm high with four screws	No	10		
Mirror 1150 x 800mm high with four screws	No	10		
Mirror 1200 x 800mm high with four screws	No	5		
Mirror 1300 x 800mm high with four screws	No	5		
Mirror 1600 x 800mm high with four screws	No	5		
Carried to sectional summary			R	

Section No.2
Bill No.17
GLAZING

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 18				
PAINTWORK				
NOTE:				
For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors				
CLEANING, ETC				
Wash down with approved cleaning material by specialist				
Internal face brick walls	m²	380		
External face brick walls	m²	600		
Granolithic to stairs and landings	m²	100		
PAINTWORK ETC TO NEW WORK				
ON FLOATED PLASTER				
One coat universal undercoat and two coats interior quality super acrylic PVA paint				
On internal plastered walls	m²	780		
On internal plastered ceilings and beams	m²	320		
On external plastered ceilings	m²	270		
One coat primer and two coats exterior quality super acrylic PVA paint				
On external walls	m²	270		
On top of plastered ledges, cills, etc	m²	102		
One coat pigmented primer and two coats interior non drip enamel paint				
On internal plastered walls	m²	250		
Carried Forward			R	

Brought Forward			R	
ON PLASTER BOARD				
One coat alkali resistant primer, one undercoat and two coats "Plascon Double Velvet" (or other approved) acrylic paint				
On ceilings and cornices	m²	60		
On Partitions	m²	580		
ON SMOOTH CONCRETE				
One coat alkali resistant primer, one undercoat and two coats Dulux "Luxurious Silk" (or other approved) acrylic paint				
On columns	m²	66		
ON FIBRE CEMENT				
One coat universla primer and two coats exterior quality super acrylic PVA paint				
On fascias and barge boards	m²	88		
ON METAL				
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	m²	70		
On transformer doors including frames	m²	5		
On barriers	m²	55		
ON WOOD				
Apply one coat oil wood primer, apply one universal undercoat and apply two coats varnish				
On doors	m²	150		
On skirtings, rails, etc not exceeding 300mm girth	m	90		
Carried Forward			R	

Brought Forward			R	
ON BASEMENT FLOORS				
Prepare and paint in white or yellow road marking paint as:				
Line 100mm wide, broken or continuous	m	94		
Numbers indicating parking bay numbers, approximate size 300mm	No	15		
Arrows indicating traffic flow, approximate size 500mm	No	7		
PAINTWORK ETC TO PREVIOUSLY PAINTED WORK				
ON SCREEDED FLOORS, ETC				
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	m²	410		
ON SMOOTH CONCRETE				
Prepare surface as per Supplementary Preambles hereof and spot prime bare and repaired areas with plaster primer thinned 20% with mineral turpentine. Prime with one coat Plascon plaster primer (UC 56) (or other approved) and finish with two coats Double Velvet; Satin Sheen (VEL 1) (or other approved)				
On walls, columns, etc.	m²	1,560		
On floors	m²	34		
PAINT ON PLASTER, ETC.				
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	m²	370		
On internal plastered walls	m²	680		
Carried Forward			R	

Section No.2
Bill No.18
PAINTWORK

Brought Forward			R	
Raking soffits of stairs and landings	m²	120		
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				
On internal plastered walls	m²	510		
PAINT ON METAL				
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				
On doors and pressed steel door and window frames	m²	30		
On window frames	m²	12		
On balustrading	m²	12		
On burglar doors, bars, etc	m²	24		
PAINT ON WOOD				
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				
On doors, frames, etc	m²	18		
On bulkheads not exceeding 300mm high	m	18		
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				
On doors, frames, etc	m²	20		
On timber panneling	m²	20		
On general surfaces of fittings, linings, etc	m²	20		
On window cill not exceeding 300mm girth	m	20		
Carried to sectional summary			R	

Section No.2
Bill No.18
PAINTWORK

	Unit	QTY	RATE	AMOUNT
SECTION NO. 2				
BILL NO. 19				
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	480		
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	120		
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	120		
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	120		
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	20		
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	800		
Prescribed density tests on filling				
In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	36		
Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	24		
Carried Forward			R	

Brought Forward			R	
Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	12		
UCS test in accordance with method A14 of TMH 1	No	12		
Bituminous premix road surfacing				
Parking areas, roadways, etc	m^2	800		
ROADLINES AND SIGNS				
Non-reflectorised 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	300		
Numbering to kerbs	No	70		
Paraplegic sign, in yellow paint	No	50		
FENCING				
Concrete palisade fencing				
Precast concrete panel fencing 2m high above ground level with exposed faces of all components finished smooth and with one side of infill panels with "big brick" design comprising 150 x 150mm posts 2,5m long having tapered recesses on two sides and reinforced with 12mm diameter mild steel continuous bars, founded in and including 450 x 450 x 450mm unreinforced concrete bases as 1,59m centres and with precast concrete caps cemented on top of each post and with 38 x 1525 x 305mm infill panels reinforced with type 395 high tensile steel fabric reinforcement including grouting panels in cement mortar.	m	100		
Galvanised steel security fencing				
Security fencing 2.4m high formed of six straining wires passed through posts and tied to straining posts or eye bolts covered with welded wire mesh fixed at ?mm centres to each straining wire	m	100		
Continuous razor wire security roll to top of fence flat wrapped in 450mm diameter rings fixed together and to straining wire	m	100		
Carried Forward			R	

Section No.2
Bill No.19
EXTERNAL WORKS

Brought Forward			R	
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	30		
Steel Palisade Galvanized Steel palisade fence fitted between 100 x 55 IPE galvanized steel post 2850mm long in panel approximately 2500 wide x 1800 high with 17 no. 40 x 40 x 3mm rolled steel pales fixed to and including 2no. 50 x 50 x 5mm horizontal cross-bars at 1,65m centers and 450 x 450 x 900 deep mass concrete base				
New fence complete	m	70		
Carried Forward			R	

Brought Forward			R	
Sliding driveway gate made of 100 x 50 x 3,0mm bottom rail, 75 x 50 x 3,0mm side, diagonal and top rail. - filled with 40 x 40 x 3mm galv. mild steel angle iron welded to mild steel surround sharpened to match palisade fence and spaced equally not exceeding 150mm Centre's. - 100 x 100 x 3,0mm end post in concrete base. (25mPa) - 75 x 50 x 2,5 end U-shaped portal guide post in concrete base - 2no. 100mm heavy duty GMS wheels with dust proof sealed roller bearings. - 50 x 50 x 5mm GMS angle track with 16mm solid round bar welded on top of angle iron, 30 x 75mm fish tails at 300 Centre's cast in concrete base (25mPa) - GMS guide with nylon guide wheels bolted to column - 200 x 100 x 75 closing channel welded to gate - 100 x 100 x 6 locking plates welded to gate and closing channel.				
Sliding driveway gate approx. 8,0m wide x 1,8m high	No	4		
Pedestrian gate	No	6		
Carried to sectional summary			R	

Section No.2
Bill No.19
EXTERNAL WORKS

SECTIONAL SUMMARY				
ALTERATIONS	Page	C2.2-55-		
EARTHWORKS	Page	C2.2-60-		
CONCRETE AND REINFORCEMENT	Page	C2.2-67-		
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CEILINGS, PARTITIONS AND ACCESS FLOORING	Page	C2.2-96-		
FLOOR COVERINGS	Page	C2.2-98-		
IRONMONGARY	Page	C2.2-106-		
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STRUCTURAL STEELWORK	Page	C2.2-116-		
PLASTERING	Page	C2.2-118-		
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PLUMBING AND DRAINAGE	Page	C2.2-135-		
GLAZING	Page	C2.2-137-		
PAINTWORK	Page	C2.2-141-		
EXTERNAL WORKS	Page	C2.2-145-		
carried to final summary				

SECTION NO. 3 **BILL NO. 1** **PROVISIONAL SUMS** NOTE: For Preambles see the Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors Preliminaries The contractor is refered to the Preliminaries section of the bills of quantities for further amplification of "Prim Cost Amounts and Provisional Sums" **PROVISIOANL SUMS AND PRIME COST AMOUNTS** **SPECIALIST'S WORK** The following provisional sums and prime cost amount are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, persentage or allowance what so ever on the value of any provisional sum or prime cost amount other the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion. In general specialist installations envisaged will be of the following, but not limited thereto; Electrical Installations HVAC Installations ITC Installation Fire Detection Intruder Alarm Joinery Fittings, Signage, etc				
Carried Forward			R	

Brought Forward			R	
ELECTRICAL INSTALLATION				
Provide the Provisional sum of R5,000,000.00 for Electrical Installation to be executed complete by Sub-Contractor	Item	1	5,000,000.00	5,000,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
HVAC INSTALLATION				
Provide the Provisional sum of R5,000,000.00 for HVAC Installation to be executed complete by Sub-Contractor	Item	1	5,000,000.00	5,000,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
ITC INSTALLATION				
Provide the Provisional sum of R1,900,000.00 for ITC Installation to be executed complete by Sub-Contractor	Item	1	1,900,000.00	1,900,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
Carried Forward			R	

Section No.3
Bill No.1
PROVISIONAL SUMS

Brought Forward			R	
FIRE DETECTION INSTALLATION				
Provide the Provisional sum of R1,300,000.00 for Fire Detection Installation to be executed complete by Sub-Contractor	Item	1	1,300,000.00	1,300,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
DESIGN, SUPPLY AND INSTALLATION OF SPRINKLER SYSTEM				
Provide the amount of R1,955,000.00 for the design, supply and installation of the sprinkler system including professional fees for specialist sprinkler consultant, 140L Abeco tank and possible removal of existing water tank in roof space.	Item	1.000	1,955,000.00	1,955,000.00
Allow for profit	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
INTRUDER ALARM INSTALLATION				
Provide the Provisional sum of R900,000.00 for Intruder Alarm Installation to be executed complete by Sub-Contractor	Item	1	900,000.00	900,000.00
Allow for profit if required	%			
Allow for general attendance	%			
CCTV INSTALLATION				
Provide the Provisional sum of R1,000,000.00 for supply and installation of CCTV to be executed complete by Sub-Contractor	Item	1	1,000,000.00	1,000,000.00
Allow for profit if required	%			
Allow for general attendance	%			
Carried Forward			R	

Section No.3
Bill No.1
PROVISIONAL SUMS

Brought Forward			R	
BIOMETRIC ACCESS CONTROL				
Provide the Provisional sum of R850,000.00 for supply and installation of Biometric Access Control to be executed complete by Sub-Contractor	Item	1	850,000.00	850,000.00
Allow for profit if required	%			
Allow for general attendance	%			
GLAZED INTERNAL PARTITION				
Provide the Provisional sum of R2,000,000.00 for supply and installation of Glazed Internal Partition to be executed complete by Sub-Contractor	Item	1	2,000,000.00	2,000,000.00
Allow for profit if required	%			
Allow for general attendance	%			
CAT LADDER				
Provide the Provisional sum of R60,000.00 for supply, manufacture and installation of Cat Ladder to be executed complete by Sub-Contractor	Item	1	60,000.00	60,000.00
Allow for profit if required	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
SPECIALIST ALUMINIUM FACADE CLADDING, AND ALL OTHER ALUMINIUM SHOPFRONTS, WINDOWS AND DOORS				
Provide the amount of R7,000,000.00 for the supply and installation of the specialist aluminium fa×§ade cladding and all other aluminium shopfronts, windows and doors to be executed complete by Spacialist Sub-Contractor	Item	1	7,000,000.00	7,000,000.00
Allow for profit	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
PERFORATED ALUPANEL CLADDING SYSTEM INCLUDING TOGGLE AND RAIL ALUPANEL CLADDING SYSTEM				
Provide the amount of R5,000,000.00 for the supply and installation of the Alupanel type fa×§ade cladding type toggle system and perforated cladding system by hunter douglas to be executed complete by Sub-Contractor	Item	1.000	5,000,000.00	5,000,000.00
Allow for profit	%			
Allow for attending upon for the use of scaffolding, plant, etc and making good after Sub-Contractor	%			
Carried Forward			R	

Section No.3
Bill No.1
PROVISIONAL SUMS

Brought Forward			R	
SAFETY RAIL FOR FAÇADE CLEANING				
Allow the Budgetary Allowance of R100,000.00 for safety rail for fa×§ade cleaning	Item	1	100,000.00	100,000.00
Allow for profit	%			
Allow for general attendance	%			
OFFICE FURNITURE				
Provide the amount of R1,000,000.00 for the supply and installation of the office furniture to all office (workstations, desks, etc..)	Item	1.000	1,000,000.00	1,000,000.00
Allow for profit	%			
Allow for general attendance	%			
WATER RESERVOIRS				
Provide the Provisional sum of R350,000.00 for Valves and other connections	item	1	350,000.00	350,000.00
Allow for profit	%			
Allow for general attendance	%			
MOBILE OFFICE				
Provide the Provisional sum of R300,000.00 for the supply of a Mobile Office Unit to be supplied by Sub-Contractor	Item	1	300,000.00	300,000.00
Allow for profit if required	%			
Allow for general attendance	%			
MOBILE ABLUTION FACILITIES				
Provide the Provisional sum of R100,000.00 for the supply of a Mobile Ablution unit to be supplied by Sub-Contractor	Item	1	100,000.00	100,000.00
Allow for profit if required	%			
Allow for general attendance	%			
carried to forward			R	

Section No.3
Bill No.1
PROVISIONAL SUMS

Brought Forward			R	
MOBILE SLEEPING QUARTERS				
Provide the Provisional sum of R450,000.00 for the supply of a Mobile Sleeping Quarter Unit to be supplied by Sub-Contractor	Item	1	450,000.00	450,000.00
Allow for profit if required	%			
Allow for general attendance	%			
MOBILE STANDBY QUARTERS				
Provide the Provisional sum of R450,000.00 for the supply of a Mobile Standby Quarter Unit to be supplied by Sub-Contractor	Item	1	450,000.00	450,000.00
Allow for profit if required	%			
Allow for general attendance	%			
COMMUNITY LIAISON OFFICER				
Provide the amount of R180,000.00 (Sixty Thousand Rand) for the appointment of a Community Liaison Officers. Provide the R5,000.00 Allowance inclusive cell phone monthly.	Item	1	180,000.00	180,000.00
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: 4 PROVISIONAL SUMS				
Sub Total				
Add 10% Contingency	%	10		
Sub Total				
Add VAT @ 15%	%	15		
Total carried of form of offer				