



Rural development & agrarian reform

Department:
Rural Development & Agrarian Reform
PROVINCE OF THE EASTERN CAPE

BID FOR THE CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE

LOCATION: TSOLO

VOLUME 2 – RETURNABLE DOCUMENTS

BID NO - SCMU8-21/22-0106

Head Office: Supply Chain Management Private Bag X 0040 Bhisho 5605 Contact: Name: Nosibusiso Mateta Telephone: 040 605 5263 / 079 505 9722	Consultants: Intsika Architects & Principal Agents 1 st Floor, Leadwood House, Cedarsquare Bonza Bay Road, Beacon Bay, East London 5241 Contact: Name: Cobus Gouws Telephone: 043 748 2949
Tenderer	
CSD Number:	
LOGIS Number:	
Preference Points Claimed:	
Closing date on tender: 9th December 2021 Time at: 11:00 am	
Total of the prices inclusive of applicable taxes: R	
.....	

CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL
AND RURAL DEVELOPMENT INSTITUTE
FOR
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM



TABLE OF CONTENTS

VOLUME 1	TENDERING PROCEDURES
	T1.1 Notice and Invitation to Tender
	T1.2 Tender Data
	T1.3 Standard Conditions of Tender
VOLUME 2	RETURNABLE DOCUMENTS
	T2.1. List of Returnable Documents
	T2.2 Returnable Schedules required only for Tender Evaluation Purposes
	T2.2. Other Documents required only for Tender Evaluation Purposes
	T2.2 Returnable Schedules that will be incorporated into the Contract
	T2.2 Other Documents that will be incorporated into the Contract
	C1.1 Form of Offer and Acceptance
	C1.2 Contract Data (Data provided by the Contractor)
	<i>C2. Pricing Data</i>
	C2.1 Pricing Instructions
	C2.2 Bills of Quantities
VOLUME 3	THE CONTRACT
	<i>C1 Agreement and Contract Data</i>
	C1.2 Contract Data
	C1.2 Occupational Health and Safety Agreement
	C1.3 Form of Guarantee
	<i>C2. Pricing Data</i>
	C2.1 Pricing Instructions
	<i>C3 Scope of Work</i>
	C3.1 Scope of Work
	<i>C3.2 SPECIFICATIONS - Particular and Generic Specifications</i>
	C3.2.1 Architectural Specifications
	C3.2.2 Electrical Detailed Project Specific Specifications
	C3.2.3 Occupational Health and Safety Specification
	C3.2.4 HIV/AIDS Specification
	C3.2.5 Environmental Management Plan
	C3.2.6 Local Content Guidelines & Completed Example of Template
	<i>C4 Site Information</i>
	C4.1 Site Information
VOLUME 4	DRAWINGS AND DETAILS
	<i>C5 DRAWINGS</i>
	C5.1 Schedule of Contract Drawings

T 2.1 RETURNABLE DOCUMENTS

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND
RURAL DEVELOPMENT INSTITUTE AT TSOLO**

T2.1 List of Returnable Documents

The tenderer must complete the following returnable documents:

1 Returnable Schedules required only for tender evaluation purposes

- Certificate of authority for joint ventures (where applicable)
- Compulsory Enterprise Questionnaire
- Record of Addenda to Tender Documents
- Proposed Amendments and Qualifications
- Schedule of Subcontractors
- Schedule of Plant and Equipment
- Schedule of the Tenderer's Experience
- Schedule of current projects

2 Other documents required only for tender evaluation purposes

- Proof of registration on the CSD and copy of active and updated certificate attached.
- Certificate of Contractor Registration issued by the Construction Industry Development Board.
- Certificate of B-BBEE Registration with level of contribution.

3 Returnable Schedules that will be incorporated into the contract

- ECBD1 – Invitation to Bid Part A & B
- Preferencing Schedule SBD 6.1
- Declaration Certificate for Local Production and Content for Designated Sectors SBD 6.2

4 Other documents that will be incorporated into the contract

- Declaration of validity of information.
- Declaration of Interest - SBD 4.
- Declaration of tenderer's past SCM practices - SBD 8.
- Certification of independent tender determination - SBD 9.
- Certificate of tenderer's visit to site.
- Tenderer's financial standing.
- Surety and Bank details.
- Form of intent to provide a Performance Guarantee.
- Key personnel for project.
- Curriculum Vitae of key personnel.
- Preliminary Construction Programme.
- Alteration by tenderer.
- Contractor's Health and Safety declaration.
- Contractor's Health and Safety Plan.
- Evaluation Schedule 1 – Project Reference Forms – 1
- Evaluation Schedule 1 – Project Reference Forms - 2
- Evaluation Schedule 1 – Project Reference Forms - 3

C1.1 Form of Offer and Acceptance

C1.2 Contract Data (Part 2 - Data provided by the Contractor)

C2.2 Bills of Quantities

**PART A
INVITATION TO BID**

ECBD 1

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM					
BID NUMBER:	SCMU8 - 21/22 - 0106	CLOSING DATE:	9th December 2021	CLOSING TIME:	11:00
DESCRIPTION	BID FOR THE CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL & RURAL DEVELOPMENT INSTITUTE AT TSOLO				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM					
UIF BUILDING, CNR PHALO AND RHARHABE ROAD, BHISHO					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Ms Nosibusiso Mateta		CONTACT PERSON	Mr Cobus Gouws	
TELEPHONE NUMBER	040 605 5263 / 079 505 9722		TELEPHONE NUMBER	043 748 2949	
E-MAIL ADDRESS	Nosibusiso.Minya@drdar.gov.za		E-MAIL ADDRESS	cobus@intsika.com	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELL PHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA _____
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
1. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		2. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?		<input type="checkbox"/> YES		<input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?		<input type="checkbox"/> YES		<input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?		<input type="checkbox"/> YES		<input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?		<input type="checkbox"/> YES		<input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?		<input type="checkbox"/> YES		<input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					
STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW,					

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
<p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED – (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</p> <p>1.3. BIDDERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.</p> <p>1.4. WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS MAY BE SUBMITTED WITH THE BID DOCUMENTATION. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.</p> <p>1.5. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE JOINT BUILDING CONTRACT COMMITTEE (JBCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.</p> <p>1.6. BIDDERS ARE REQUIRED TO ACHIEVE A STIPULATED MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT AS PER DTI DESIGNATED SECTOR AS PER SECTION 8 OF THE PPPFA REGULATION OF 2017. BIDDERS MUST COMPLETE SBD6.2 WITH ANNEXURE C AND MUST BE SUBMITTED WITH THE QUOTE. FAILURE TO SUBMIT WILL INVALIDATE THE BID</p> <p>1.7. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).</p>
2. TAX COMPLIANCE REQUIREMENTS
<p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.</p> <p>2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.</p> <p>2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.</p> <p>2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.</p> <p>2.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.</p> <p>2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."</p>

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms
, authorised signatory of the company
, acting in the capacity of lead partner, to sign all documents in connection with the
 tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature Name Designation
		Signature Name Designation
		Signature Name Designation
		Signature Name Designation

COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise: _____

Section 2: VAT registration number, if any: _____

Section 3: cidb registration number, if any: _____

Section 4: CSD number: _____

Section 5: Particulars of sole proprietors and partners in partnerships:

Name*	Identity number*	Personal income tax number*

** Complete only if sole proprietor or partnership and attach separate page if more than 3 partners*

Section 6: Particulars of companies and close corporations

Company registration number: _____

Close corporation number: _____

Tax reference number: _____

Section 7: SBD4 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 8: SBD 6 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 9: SBD8 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 10: SBD9 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

The undersigned, who warrants that he / she is duly authorized to do so on behalf of the enterprise:

- i) Authorize the employer to verify the tenderers tax clearance status from the South African Revenue Service that it is in order;
- ii) Confirms that neither the name of the enterprise or the name of any partner, manager, director or any other person, who wholly or partly exercises or may exercise control over the enterprise, appears on the Register of Tender Defaulters established in terms of the Prevention and combating of Corruption Activities Act of 2004;
- iii) Confirms that no partner, manager, director or any other person, who wholly or partly exercises or may exercise control over the enterprise, has within the last five years been convicted of fraud or corruption;
- iv) Confirms that I/we are not associated, linked or involved with any other rendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- v) Confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed		Date	
Name		Position	
<i>Enterprise name</i>			

RECORD OF ADDENDA TO TENDER DOCUMENTS

The undersigned confirm that the following communications received from the employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

Attach additional pages if more space is required.

Signed		Date	
Name		Position	
Tenderer			

PROPOSED AMENDMENTS AND QUALIFICATIONS

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

The Tenderer's attention is drawn to clause C.3.8 of the Standard Conditions of Tender referenced in the Tender Data regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed Date

Name Position

Tenderer

SCHEDULE OF PROPOSED SUBCONTRACTORS

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

We confirm that all Subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor.
1.			
2.			
3.			
4.			
5.			

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

SCHEDULE OF PLANT AND EQUIPMENT

The following are lists of major items of relevant equipment that I / we presently own or lease and will have available for this contract or will acquire or hire for this contract if my / our tender is accepted.

(a) Details of major equipment that is owned by and immediately available for this contract.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

(b) Details of major equipment that will be hired, or acquired for this contract if my / our tender is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed _____ Date

Name _____ Position

Tenderer

SCHEDULE OF THE TENDERER'S EXPERIENCE

The following is a statement of similar work in respect of this tender successfully executed by myself / ourselves during the past three (3) years:

Employer, contact person and telephone number.	Description of contract	Value of work inclusive of VAT (Rand)	Date contract started	Date contract completed (Date on Completion Certificate)

Signed Date

Name Position

Tenderer

SCHEDULE OF CURRENT PROJECTS

Tenderers must submit a max one-page description of all projects under construction/ on hold/ just handed over/ towards completion (if they exist). **Attach an Appointment letter for each of the projects provided.**

The description of each project must include the following information:

1. Essential introductory information:
 - 1.1. Name of project.
 - 1.2. Name of client.
 - 1.3. Contact details of client.
 - 1.4. Contact details (including telephone numbers and email addresses) of currently contactable references.
 - 1.5. The period during which the project was performed, and also, if this is different, the period during which the tenderer's team members were contracted.
 - 1.6. Cost of works and/or contract value (making it clear in broad terms what this cost/value purchased, and to what extent (if any) this cost/value was part of a larger project budget or programme budget).

NO.	NAME OF PROJECT.	NAME OF CLIENT.	CONTACT DETAILS OF CLIENT.	PROJECT VALUE	STAGE OF PROJECT
1					
2					
3					

Attach a separate page to address this issue (the above table is just for reference purposes).

The undersigned, who warrants that she/ he is duly authorised to do so on behalf of the enterprise, confirms that the content of this schedule that presented by the tenderer are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed _____ Date _____

Name _____ Position _____

Enterprise name _____

CONTRACTORS CERTIFICATE OF REGISTRATION ON CSD

[The tenderer shall submit the Contractor's Certificate of Registration on the CSD. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer is not registered on the National Treasury Central Suppliers Database and therefore not eligible to tender].

CONTRACTORS CERTIFICATE OF REGISTRATION WITH CIDB

[The tenderer shall submit the Contractor's Certificate of Registration with CIDB. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer is not registered with the CIDB and therefore not eligible to tender].

CONTRACTORS CERTIFICATE OF B-BBEE REGISTRATION

[The tenderer shall submit the Contractor's Certificate of B-BBEE Registration. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer does not claim any B-BBEE points. Alternatively, the Contractor must complete the Sworn Affidavit after SBD 6.1].

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

SBD 6.1

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R 50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R 50 000 000 (all applicable taxes included).

1.2

- a) The value of this bid is estimated to **not exceed R 50 000 000** (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable; or
- b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) “**B-BBEE**” means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) “**B-BBEE status level of contributor**” means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) “**bid**” means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) “**Broad-Based Black Economic Empowerment Act**” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) “**EME**” means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) “**functionality**” means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) “**prices**” includes all applicable taxes less all unconditional discounts;
- (h) “**proof of B-BBEE status level of contributor**” means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) “**QSE**” means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

- P_s = Points scored for price of bid under consideration
- P_t = Price of bid under consideration
- P_{min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: _____ = _____ (maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

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

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted? %
- ii) The name of the sub-contractor:
- iii) The B-BBEE status level of the sub-contractor:
- iv) Whether the sub-contractor is an EME or QSE:
- v)

(Tick applicable box)

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

vi) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:

8.2 VAT registration number:

8.3 Company registration number:

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and

6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;

iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –

- (a) disqualify the person from the bidding process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution.

<p>WITNESSES</p> <p>1.</p> <p>2.</p>	<p>..... SIGNATURE(S) OF BIDDERS(S)</p> <p>DATE:</p> <p>ADDRESS</p> <p>.....</p> <p>.....</p>
--	---

SWORN AFFIDAVIT – B-BBEE EXEMPTED MICRO ENTERPRISE - GENERAL

SWORN AFFIDAVIT – B-BBEE QUALIFYING SMALL ENTERPRISE (QSE) – CONTRACTORS

I, the undersigned,

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

Enterprise Name:	
Trading Name (If	
Registration Number:	
Enterprise Physical Address:	
Type of Entity (CC, (Pty) Ltd, Sole Prop	
Nature of Business:	
Definition of “Black People”	<p>As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 “Black People” is a generic term which means Africans, Coloureds and Indians –</p> <p>(a) Who are citizens of the Republic of South Africa by birth or descent; or (b) Who became citizens of the Republic of South Africa by naturalization- i. Before 27 April 1994; or ii. On or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date.</p>

3. I hereby declare under Oath that:
 - The Enterprise is _____% **Black Owned** as per Amended Code Series CSC000 of the Revised Construction Sector Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
 - The Enterprise is _____% **Black Woman Owned** as per Amended Code Series CSC000 of the Revised Construction Sector Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
 - The Enterprise is _____% **Black Designated Group Owned** as per Amended Code Series CSC000 of the Revised Construction Sector Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,

- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of _____, the annual Total Revenue was between R 10,000,000 million (Ten Million Rands) and less than R 50,000,000.00 (fifty Million Rands).
- Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% Black Owned	Level One (135% B-BBEE procurement recognition level)	
At least 51% Black Owned but less than 100% black owned	Level Two (125% B-BBEE procurement recognition level)	

NB: KEY NOTES FOR QSE (extract from Gazette No. 41287)

- 5.6.3 A QSE that is at least 51% Black Owned or 100% Black Owned that does not comply with paragraph 3.6.2.3 above, will be discounted by one level from that level awarded in paragraphs 5.3.1 and 5.3.2 respectively.
 - 5.3.4 Despite paragraphs 5.2, 5.3.1 and 5.3.2, an at least 51% Black Owned QSE's B-BBEE Status Level and corresponding B-BBEE Recognition Level will be enhanced by one level if it achieves full points (excluding the bonus points) for the Skills Development element of the QSE Scorecard (paragraphs 1.1, 1.2 and 1.3 of Statement CSC603) or the Preferential Procurement and Supplier Development element of the QSE Scorecard (paragraphs 1.1, 1.2, 1.3 and 2.1 of CSC604).
 - 5.3.5 For the avoidance of doubt, a Measured Entity that is measured in terms of the full QSE scorecard is not eligible for enhancement in terms of paragraph 5.3.4 above.
 - Contractors and/Built Environment Professionals are encouraged to familiarize themselves with the Construction Sector Codes (CSC000) as issued through Government Gazette No. 41287, Board No. NOTICE 931 OF 2017.
Details are available on: www.thedti.gov.za/economic_empowerment/bee_sector_charters.jsp
 - An electronic copy can also be requested through DPW offices (Supply Chain Offices)
4. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.
 5. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature: _____

Date: _____

Commissioner of Oaths
Signature & Stamp

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

SBD 6.2

NB: This Standard Tender Document (SBD) must form part of all tenders invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1 GENERAL CONDITIONS

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

A bid may be disqualified if –

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

2. Definitions

- 2.1 “**bid**” includes written price quotations, advertised competitive bids or proposals;
- 2.2 “**bid price**” price offered by the bidder, excluding value added tax (VAT);
- 2.3 “**contract**” means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4 “**designated sector**” means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5 “**duly sign**” means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
- 2.6 “**imported content**” means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour and intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7 “**local content**” means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8 “**stipulated minimum threshold**” means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9 “**sub-contract**” means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.
3. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

- 3.1 The stipulated minimum threshold(s) for local production and content for this tender is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
All Steel Products & Components for Construction	100 %
All Electrical & Telecom Cable Products	90%
Plastic Pipes	100%
Valve products and Actuators	70%
School Furniture	100%

Bidders are required to archive a stipulated minimum threshold for local production and content as per DTI designated sector as per section 8 of the PPPFA Regulation of 2017. Bidders must complete SBD6.2 with Annexure C and must be submitted with the quote. Failure to submit will invalidate the bid.

4. Does any portion of the services, works or goods offered?
have any imported content? **YES / NO**
- 4.1. If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by the SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information are accessible on **www.reservebank.co.za**.

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

5. Were the Local Content Declaration Templates, (Annex C, D and E) audited and certified as correct? **YES / NO**

5.1. If yes, provide the following particulars:

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

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

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

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

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

IN RESPECT OF BID NO: SCMU8-21/22-0106

ISSUED BY: (Procurement Authority / Name of Department / Departmental Entity):
.....

NB

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

I, the undersigned (full names),
do hereby declare, in my capacity as
of (name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that
- (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
 - (ii) the declaration templates have been audited and certified to be correct.
- (c) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

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

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

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

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

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

- (C1) Tender No.
- (C2) Tender description:
- (C3) Designated product(s)
- (C4) Tender Authority:
- (C5) Tendering Entity name:
- (C6) Tender Exchange Rate:
- (C7) Specified local content %

SCMU8-21 / 22-0106
 CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI
 ALL STEEL PRODUCTS & COMPONENTS FOR CONSTRUCTION
 DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM
 Pula EU GBP
 100%

Note: VAT to be excluded from all calculations

		Calculation of local content					
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
41	R8mm Diameter bars						
42	R10mm Diameter bars						
43	Y10mm Diameter bars						
44	Y12mm Diameter bars						
45	Y16mm Diameter bars						
1	0.58mm Thick 406 Brownbuilt Roof Covering						
2	0.58mm Thick 406 Brownbuilt Roof Covering Lean-to						
3	0.58mm Thick 406 Brownbuilt Side Cladding						
4	0.58mm Thick 406 Brownbuilt Side Cladding						
31	M10 (Grade 4.8) Galv bolts through timber						
32	Hilti M10 x 130mm Galv screw anchors into b/w						
33	Hilti M10 x 130mm Galv screw anchors into concrete						
1	203 x 203mm x 46kg/m H-section columns						
3	356 x 171mm x 45kg/m I-section roof beams/rafters						
5	Lattice eaves trusses of 125 x 75 x 20 x 3mm CFLC						
9	175 x 75 x 20 x 2,5mm CFLC purlins						
10	50 x 50 x 3mm Equal angle sag bars						
11	50 x 50 x 3mm Equal angle diagonal sag bars						
12	70 x 70 x 6mm Equal angle cross bracing						
14	0.80mm Thick Welded plate U-shaped box gutter						
17	M12 HT Galv bolts (Grade 8.8)						
18	M16 HT Galv bolts (Grade 8.8)						
1	80 x 80 x 4mm Galv SHS column posts						
2	250 x 100 x 4mm Thick Galv RHS stringers to stairs						
3	40 x 40 x 4mm Thick Galv Equal leg supporting angles						
1	125 x 85mm Seamless aluminium eaves gutters						
4	75 x 50 Rectangular alumin rainwater downpipes						

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
2.33			
2.33			
2.33			
2.33			
2.33			
660.00			
114.00			
60.00			
46.00			
155.00			
86.00			
155.00			
0.62			
6.48			
1.64			
3.46			
0.29			
0.17			
0.42			
64.00			
860.00			
96.00			
2.00			
603.00			
247.00			
38.00			
19.00			

Signature of tenderer from Annex B _____

Date: _____

(C20) Total tender value	
(C21) Total Exempt imported content	
(C22) Total Tender value net of exempt imported content	
(C23) Total Imported content	
(C24) Total local content	
(C25) Average local content % of tender	

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(D2) Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(D3) Designated Products:	ALL STEEL PRODUCTS & COMPONENTS FOR CONSTRUCTION	
(D4) Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula _____ EU _____ GBP _____	

A. Exempted imported content

Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value											

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer											

C. Imported by a 3rd party and supplied to the Tenderer

Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Calculation of imported content						Summary	
				Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party											

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Calculation of foreign currency payments		Summary of payments
			Foreign currency value paid	Tender Rate of Exchange	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

Date: _____

This total must correspond with Annex C - C 23

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1) Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(E2) Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(E3) Designated products:	ALL STEEL PRODUCTS & COMPONENTS FOR CONSTRUCTION	
(E4) Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(E5) Tendering Entity name:		

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
	(E9) Total local products (Goods, Services and Works)		

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

Annex C

Local Content Declaration - Summary Schedule

(C1) **Tender No.** SCMU8-21 / 22-0106
 (C2) **Tender description:** CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI
 (C3) **Designated product(s)** ALL ELECTRICAL AND TELECOM CABLE PRODUCTS
 (C4) **Tender Authority:** DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM
 (C5) **Tendering Entity name:**
 (C6) **Tender Exchange Rate:** Pula EU GBP
 (C7) **Specified local content %** 90%

Note: VAT to be excluded from all calculations

Calculation of local content

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
1	4mm2 1-Phase 2-Core + ECC SWA Cu cable						
2	6mm2 1-Phase 2-Core + ECC SWA Cu cable						
3	10mm2 3-Phase 4-Core + ECC SWA Cu cable						

Tender summary

Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
45			
231			
110			

(C20) Total tender value

(C21) Total Exempt imported content

(C22) Total Tender value net of exempt imported content

(C23) Total Imported content

(C24) Total local content

(C25) Average local content % of tender

Signature of tenderer from Annex B

Date: _____

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(D2) Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(D3) Designated Products:	ALL ELECTRICAL AND TELECOM CABLE PRODUCTS	
(D4) Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula <input type="text"/> EU <input type="text"/> GBP <input type="text"/>	

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer											

(D32) Total imported value by tenderer

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party											

(D45) Total imported value by 3rd party

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

(D52) Total of foreign currency payments declared by tenderer and/or 3rd party

Signature of tenderer from Annex B

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

Date: _____

This total must correspond with Annex C - C 23

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(E2)	Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(E3)	Designated products:	ALL ELECTRICAL AND TELECOM CABLE PRODUCTS	
(E4)	Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(E5)	Tendering Entity name:		

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

Annex C

Local Content Declaration - Summary Schedule

(C1) **Tender No.** SCMU8-21 / 22-0106
 (C2) **Tender description:** CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI
 (C3) **Designated product(s)** PLASTIC PIPES
 (C4) **Tender Authority:** DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM
 (C5) **Tendering Entity name:**
 (C6) **Tender Exchange Rate:** Pula EU GBP
 (C7) **Specified local content %** 100%

Note: VAT to be excluded from all calculations

Calculation of local content

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
7	160mm uPVC rainwater downpipes						
8	160mm uPVC rainwater downpipes to tanks						
44	40mm uPVC pipes						
45	50mm uPVC pipes						
46	110mm uPVC pipes						
68	15mm Polycop pipes						
69	22mm Polycop pipes						
1	200mm uPVC Stormwater pipes						
6	110mm uPVC Sewer pipes						
7	110mm uPVC sewer pipes						
8	160mm uPVC Sewer pipes						
9	160mm uPVC Sewer pipes						
1	40mm HDPE water pipes						
2	40mm HDPE water pipes						
7	75mm uPVC pressure water pipes						
8	75mm uPVC pressure water pipes						
7	M110 PVC sleeves for DB's						

Tender summary

Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
	15.00		
	6.00		
	15.00		
	14.00		
	14.00		
	24.00		
	10.00		
	49.00		
	20.00		
	43.00		
	10.00		
	58.00		
	20.00		
	6.00		
	30.00		
	5.00		
	110.00		

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value
 (C21) Total Exempt imported content
 (C22) Total Tender value net of exempt imported content
 (C23) Total Imported content
 (C24) Total local content
 (C25) Average local content % of tender

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(D2) Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(D3) Designated Products:	PLASTIC PIPES	
(D4) Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula <input type="text"/> EU <input type="text"/> GBP <input type="text"/>	

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer											

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party											

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with Annex C - C 23

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(E2)	Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(E3)	Designated products:	PLASTIC PIPES	
(E4)	Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(E5)	Tendering Entity name:		

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(D2) Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(D3) Designated Products:	VALVE PRODUCTS AND ACTUATORS	
(D4) Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula <input type="text"/> EU <input type="text"/> GBP <input type="text"/>	

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer											

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party											

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with Annex C - C 23

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(E2)	Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(E3)	Designated products:	VALVE PRODUCTS AND ACTUATORS	
(E4)	Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(E5)	Tendering Entity name:		

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

Annex C

Local Content Declaration - Summary Schedule

(C1) **Tender No.** SCMU8-21 / 22-0106
 (C2) **Tender description:** CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI
 (C3) **Designated product(s)** SCHOOL FURNITURE
 (C4) **Tender Authority:** DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM
 (C5) **Tendering Entity name:**
 (C6) **Tender Exchange Rate:** Pula EU GBP
 (C7) **Specified local content %** 100%

Note: VAT to be excluded from all calculations

Calculation of local content								Tender summary			
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
43	La Mia'Side chair without arms with upholstered seat							300.00			
44	Breaking News' rectangular table/desk with 16mm top & modesty panel							300.00			
45	'Cube Quilted" double seater couch with black leather look							4.00			

Signature of tenderer from Annex B _____
 Date: _____

(C20) Total tender value	<input type="text"/>
(C21) Total Exempt imported content	<input type="text"/>
(C22) Total Tender value net of exempt imported content	<input type="text"/>
(C23) Total Imported content	<input type="text"/>
(C24) Total local content	<input type="text"/>
(C25) Average local content % of tender	<input type="text"/>

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(D2) Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(D3) Designated Products:	SCHOOL FURNITURE	
(D4) Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula <input type="text"/> EU <input type="text"/> GBP <input type="text"/>	

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer											

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party											

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					

Signature of tenderer from Annex B

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with Annex C - C 23

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	SCMU8-21 / 22-0106	Note: VAT to be excluded from all calculations
(E2)	Tender description:	CONSTRUCTION OF 300 SEATER EXAM HALL AT TARDI	
(E3)	Designated products:	SCHOOL FURNITURE	
(E4)	Tender Authority:	DEPT OF RURAL DEVELOPMENT & AGRARIAN REFORM	
(E5)	Tendering Entity name:		

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

DECLARATION (VALIDITY OF INFORMATION PROVIDED)

I declare that the information provided is true and correct, the signature to the tender document is duly authorised and documentary proof regarding any tendering issue will, when required, be submitted to the satisfaction of the Department of Rural Development and Agrarian Reform.

DATE **SIGNATURE OF DECLARER**

POSITION OF DECLARER

NAME OF COMPANY OR TENDERER

Should the tenderer have, in the opinion of the Department of Rural Development and Agrarian Reform, acted fraudulently illegally, in bad faith or in any improper manner, misrepresented itself with regard to the tender, then the Department of Rural Development and Agrarian Reform may, in its sole discretion:

- * Ignore any tenders without advising the tenderer thereof
- * Cancel the contract without prejudice to any legal rights the Department of Rural Development and Agrarian Reform may have

Should the tenderer disregard this or conduct affairs in a way that transgresses from good business practices, this could seriously impair future business relations between the Department of Rural Development and Agrarian Reform and such tenderer.

DECLARATION OF INTEREST

SBD 4

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to tender (includes an advertised competitive tender, a limited tender, a proposal or written price quotation). In view of possible allegations of favouritism, should the resulting tender, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the tenderer or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the tenderer is employed by the state; and/or
- the legal person on whose behalf the tender document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the tender(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the tender.

2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the tender.**

2.1 Full Name of tenderer or his or her representative:

2.2 Identity Number.....

2.3 Position occupied in the Company (director, trustee, shareholder², member):
.....

2.4 Registration number of company, enterprise, close corporation, partnership agreement or trust:
.....

2.5 Tax Reference Number:

2.6 VAT Registration Number:

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / PERSAL numbers must be indicated in paragraph 3 below.

¹“State” means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

²“Shareholder” means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

2.7 Are you or any person connected with the tenderer presently employed by the state? **YES / NO**

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

Name of state institution at which you or the person connected to the tenderer is employed:

Position occupied in the state institution:

Any other particulars:

.....
.....
.....

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? **YES / NO**

2.7.2.1 If yes, did you attach proof of such authority to the tender document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the tender.

2.7.2.2 If no, furnish reasons for non-submission of such proof:
.....
.....
.....

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:
.....
.....
.....

2.9 Do you, or any person connected with the tenderer, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this tender? **YES / NO**

2.9.1 If so, furnish particulars.
.....
.....
.....

2.10 Are you, or any person connected with the tenderer, aware of any relationship (family, friend, other) between any other tenderer and any person employed by the state who may be involved with the evaluation and or adjudication of this tender? **YES / NO**

2.10.1 If so, furnish particulars.
.....
.....
.....

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are tendering for this contract? **YES / NO**

2.11.1 If so, furnish particulars:
.....
.....

3. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Income Tax Reference Number	State Employee Number / Personal Number

4. DECLARATION

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT. I ACCEPT THAT THE STATE MAY REJECT THE TENDER OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of tenderer

DECLARATION OF TENDERER PAST SCM PRACTICES

SBD 8

1. This Standard Tender Document must form part of all tenders invited.
2. It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
3. The tender of any tenderer may be disregarded if that tenderer, or any of its directors have: -
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
4. **In order to give effect to the above, the following questionnaire must be completed and submitted with the tender.**

Item	Question	Yes	No
4.1	<p>Is the tenderer or any of it's directors listed on the National Treasury's database as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the tenderer or any of it's directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p>The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so furnish particulars:		
4.3	<p>Was the tenderer or any of it's directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
4.4	<p>Was any contract between the tenderer and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Tenderer

CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

SBD 9

- 1 This Standard Tender Document (STD) must form part of all tenders¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive tendering (or tender rigging). ² Collusive tendering is a *per se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the tender of any tenderer if that tenderer, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the tendering process or the execution of that contract.
- 4 This STD serves as a certificate of declaration that would be used by institutions to ensure that, when tenders are considered, reasonable steps are taken to prevent any form of tender-rigging.
- 5 In order to give effect to the above, the attached Certificate of Tender Determination (ECBD 9) must be completed and submitted with the tender:

¹ Includes price quotations, advertised competitive tenders, limited tenders and proposals.

² Tender rigging (or collusive tendering) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a tender process. Tender rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

SBD 9

I, the undersigned, in submitting the accompanying tender:

(Tender Number and Description)

in response to the invitation for the tender made by:

(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of tenderer)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the tenderer to sign this Certificate, and to submit the accompanying tender, on behalf of the tenderer;
4. Each person whose signature appears on the accompanying tender has been authorized by the tenderer to determine the terms of, and to sign the tender, on behalf of the tenderer;
5. For the purposes of this Certificate and the accompanying tender, I understand that the word "competitor" shall include any individual or organization, other than the tenderer, whether or not affiliated with the tenderer, who:
 - (a) has been requested to submit a tender in response to this tender invitation;
 - (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the tenderer and/or is in the same line of business as the tenderer
6. The tenderer has arrived at the accompanying tender independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive tendering.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;

- (d) the intention or decision to submit or not to submit, a tender;
 - (e) the submission of a tender which does not meet the specifications and conditions of the tender; or
 - (f) tendering with the intention not to win the tender.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this tender invitation relates.
 9. The terms of the accompanying tender have not been, and will not be, disclosed by the tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening or of the awarding of the contract.
 10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to tenders and contracts, tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Tenderer

CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that, I

representative of (tenderer)

.....

.....

of (address)

.....

.....

.....

Telephone number:

Fax number:

in the company of (Principal Agent/Engineer's representative)

visited and examined the site on (date)

I further certify that I have made myself familiar with all local conditions likely to influence the work and the cost thereof, that I am satisfied with the description of the work and the explanations given by the said Engineer's Representative and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

TENDERER'S REPRESENTATIVE: (Signature)

(Name)

ENGINEER'S REPRESENTATIVE: (Signature)

(Name)

FORM OF INTENT TO PROVIDE A PERFORMANCE GUARANTEE

[The tenderer must provide a letter from the bank or institution with whom he has made the necessary arrangements, to the effect that the said bank or institution will be prepared to provide the required performance guarantee when asked to do so].

KEY PERSONNEL

In terms of the Project Specification and the Conditions of Tender, unskilled workers may only be brought in from outside the local municipality if such personnel are not available locally.

The tenderer shall list below the personnel, which he intends to utilise on the Works, including key personnel, which may have to be brought in from outside if not available locally.

EMPLOYEE SKILLS TEAM No ____	NUMBER OF PERSONS			
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION	KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY	UNSKILLED PERSONNEL TO BE RECRUITED FROM LOCAL COMMUNITY	YEARS EXPERIENCE
Director				
Contracts Manager				
Site Agent				
OHS Officer (Registered with SACPCMP)				
Foreman				
Skilled Worker				
Semi-skilled Worker				
Unskilled Worker				
Other				
Other				
Other				
Other				

DATE **SIGNATURE OF TENDERER**
(of person authorised to sign on behalf of the Tenderer)

BASELINE RISK ASSESSMENT

PROJECT TITLE	CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE AT TSOLO
SCMU NUMBER	SCMU8-21/22-0106

1.1. Preliminary Hazard Identification and Risk Assessments

Every Contractor performing Construction work shall, before the commencement of any Construction work or work associated with the aforesaid Construction work and during such work, cause a Risk Assessment to be performed by a competent person, appointed in writing, and the Risk Assessment shall form part of the Health and Safety Plan and be implemented and maintained as contemplated in the Construction Regulations 9(1).

The tenderer is to refer to the Detailed Base Line Risk Assessment for this project included together with the Project Specific Health and Safety Specification under C 3.2.3 of Volume 3 (Contract) of the Tender Documentation for a full detailed overview of the risks and hazards applicable to this project that need to be taken into consideration.

The Risk Assessment shall include, at least:

- The identification of the risks and hazards to which persons may be exposed to
- The analysis and evaluation of the risks and hazards identified
- A documented plan of safe work procedures to mitigate, reduce or control the risks and hazards that have been identified
- A monitoring plan and
- A documented review plan Based on the Risk Assessments, Principle Contractor must develop a Site Specific OHS rules that will be applied to regulate the Health and Safety aspects of the Construction.

Baseline Risk Assessment Items to be considered:

Risk Rating: 1-3 Low Risk		4-7 Medium Risk		8-10 High Risk	
Task / situation	Personal protective equipment	Risk to safety	Risk to health	Risk to Environment	Risk Rating

HAZARD IDENTIFICATION

Task / situation	Personal protective equipment	Risk to safety	Risk to health	Risk to Environment	Risk Rating
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EQUIPMENT RISKS

Task / situation	Personal protective equipment	Risk to safety	Risk to health	Risk to Environment	Risk Rating
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PHYSICAL RISKS

Task / situation	Personal protective equipment	Risk to safety	Risk to health	Risk to Environment	Risk Rating
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ERGONOMICS RISKS

Task / situation	Personal protective equipment	Risk to safety	Risk to health	Risk to Environment	Risk Rating
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CONTRACTORS HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2014.

To that effect a person duly authorised by the tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby confirm that adequate provision has been made in my tendered rates and prices in the Bill of Quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2014, including the cost of the specific items listed in the tables hereafter.

(Tables to be completed by tenderer)

TABLE 1: COST OF SAFETY PERSONNEL

PERSONNEL	COSTS AS ALLOWED IN TENDER	NOMINATED PERSON/S
Construction Manager		
Construction Safety Officer		
Health and Safety Representative		
Working at Heights plan developer		
Working at Heights team		
Medical Assessment for all employees		

TABLE 2: COST OF SAFETY EQUIPMENT

EQUIPMENT	STATE YES or NO	COST ALLOWED FOR IN TENDER
Hard hats		
Safety boots		
Add items as per risk assessment:		

4. I hereby undertake, if my tender is accepted, to provide, before commencement of the works under the contract, a suitable and sufficiently documented Health and Safety Plan in accordance with Regulation 7(1)(a) of the Construction Regulations, which plan shall be subject to approval by the Employer.

5. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHS 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
6. I hereby confirm that, I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations (Regulation 33) for failure on the Contractor's part to comply with the provisions of the Act and the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHS 1993 Construction Regulations 2014, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.

DATE **SIGNATURE OF TENDERER**
(of person authorised to sign on behalf of the Tenderer)

CONTRACTORS HEALTH AND SAFETY PLAN

[Not applicable for tender purposes]

[The successful Tenderer, only, shall be required to submit the Contractor's Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014, and referred to in T2.1, List of Returnable Documents point 4 (other documents that will be incorporated into the contract) after acceptance of the tender]

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 1

Project title:	CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE AT TSOLO
Project Number:	SCMU8-21/22-0106

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of _____ (company name) declare that I was the Project Manager on the following building construction project successfully executed by _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting “Yes” in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

- Would you consider / recommend this tenderer again:

YES	NO

- Any other comments:

- My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 2021

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 2

Project title:	CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE AT TSOLO
Project Number:	SCMU8-21/22-0106

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of _____ (company name) declare that I was the Project Manager on the following building construction project successfully executed by _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting “Yes” in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
6. Project performance						
7. Quality of Service						
8. Resources: Personnel						
9. Time management / programming						
10. Financial management / Project budget management/cash flow, etc.						
TOTAL						

- Would you consider / recommend this tenderer again:

YES	NO

- Any other comments:

- My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 2021

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 3

Project title:	CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE AT TSOLO
Project Number:	SCMU8-21/22-0106

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of
 _____ (company name) declare
 that I was the Project Manager on the following building construction project successfully executed by
 _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting “Yes” in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
11. Project performance						
12. Quality of Service						
13. Resources: Personnel						
14. Time management / programming						
15. Financial management / Project budget management/cash flow, etc.						
TOTAL						

- Would you consider / recommend this tenderer again:

YES	NO

- Any other comments:

- My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 2021

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

PART C1 FORM OF OFFER AND CONTRACT DATA

C 1.1 FORM OF OFFER AND ACCEPTANCE

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

BID FOR THE CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE AT TSOLO

C1.1 Form of Offer and Acceptance

Note: 1 This form of offer and acceptance is identical to that contained in Annex F of SANS 10845 - 1: Construction Procurement Processes, Procedures and Methods.

2 SAICE's Practice Manual #1, The use of South African National Standards in Construction Procurement, provides guidance on the formulation of the wording for the actual offer where it is not based on the offered total of prices.

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL AND RURAL DEVELOPMENT INSTITUTE AT TSOLO**

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

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

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

.....
..... Rand (in words);

R (in figures) (or other suitable wording)

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

Signature(s)		Date:	
Name(s)			
Capacity:			
For tenderer: (Name and address)			
Name & Signature of witness:		Date:	

ACCEPTANCE

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

The terms of the contract, are contained in:

Part C1 Agreements and contract data, (which includes this agreement)

Part C2 Pricing data

Part C3 Scope of work

Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

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

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

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five (5) working days of the date of such receipt notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s)		Date:	
Name(s)			
Capacity:			
For the employer: (Name and address)			
Name & Signature of witness:		Date:	

SCHEDULE OF DEVIATIONS

Notes:

1. *The extent of deviations from the tender documents issued by the employer before the tender closing date is limited to those permitted in terms of the conditions of tender.*
2. *A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.*
3. *Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.*
4. *Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.*

1 Subject _____

Details: _____

2 Subject _____

Details: _____

3 Subject _____

Details: _____

4 Subject _____

Details: _____

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

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

C 1.2 CONTRACT DATA – PART 2 DATA PROVIDED BY THE CONTRACTOR

42.0	Part 2: Contract Data provided by the Contractor:
	POST-TENDER INFORMATION Note: All information for this section requires consultation with the contractor. The principal agent shall not pre-select any of the alternatives available to the contractor
42.5	CONTRACT DETAILS
42.5.1	Contractor: Postal address: Tel: Fax: E-mail: TAX / VAT Registration No: Physical address:
42.5.2	The accepted contract sum inclusive of tax is R Amount in words:
42.5.3 [31.3]	The latest day of the month for the issue of an interim payment certificate :
42.5.4 [32.12]	The preliminaries amounts shall be paid in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>
42.5.5 [32.12]	The preliminaries amounts shall be adjusted in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>
42.5.7	The security to be provided by the contractor :

[14]	<p>(a) in respect of contracts up to R1 million, the contractor will provide security in terms of 14.1</p> <p>(b) in respect of contracts above R1 million, the contractor will provide, as security, one of the following:</p> <p>(1) cash deposit of 10 % of the contract sum (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(2) variable construction guarantee of 10 % of the contract sum (excluding VAT) (DPW-10.3 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(4) cash deposit of 5% of the contract sum (excluding. VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding. VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(5) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) (DPW-10.1 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</p>
42.5.8 [29.7.2]	<p>The annual building holiday period after the commencement of the construction period:</p> <p>From: to</p>

42.6 42.6.1	DOCUMENTS		
	Contract documents marked and annexed hereto:		
	Priced bills of quantities:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Lump sum document:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Guarantees:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Contract drawings:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Other documents 	Yes <input type="checkbox"/> No <input type="checkbox"/> 	(attach additional pages if more space is required)

PART C2 – PRICING DATA

C 2.1 PRICING INSTRUCTIONS

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID FOR THE CONSTRUCTION OF 300 SEATER EXAM HALL AT THE TSOLO AGRICULTURAL
AND RURAL DEVELOPMENT INSTITUTE IN TSOLO**

C2.1 Pricing Instructions

1. Measurement and payment shall be in accordance with the relevant provisions of clause 8 of each of the SABS 1200 Standardised Specifications for Civil Engineering Construction and Standard System of Measuring Building Work 2015 referred to in the Scope of Work. The Preliminary and General items shall be measured in accordance with the provisions of SABS 1200-A, General and JBCC 4.1 March 2005 JBCC General Preliminaries.
2. The units of measurement described in the Bills of Quantities are metric units. Abbreviations used in these Bills of Quantities are as follows:

%	=	percent
h	=	hour
ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometre
km-pass	=	kilometre-pass
kPa	=	kilopascal
kW	=	kilowatt
l	=	litre
m	=	metre
mm	=	millimetre
m ²	=	square metre
m ² -pass	=	square metre-pass
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
month	=	month
MN	=	meganewton
MN.m	=	meganewton-metre
MPa	=	megapascal
No.	=	number
Prov sum	=	Provisional sum
PC sum	=	Prime Cost sum
R/only	=	Rate only
sum	=	lump sum
t	=	ton (1000 kg)
W/day	=	Work day

3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
4. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.

5. It will be assumed that prices included in these 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)
6. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
7. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
8. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
9. Reasonable compensation will be received where no pay item appears in respect of work required in the Bills of Quantities in terms of the Contract and which is not covered in any other pay item.
10. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
11. Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the SABS 1200 Standardised Specifications and The Standard System of Measuring Building Work 2015.

C 2.2 BILLS OF QUANTITIES

BILLS OF QUANTITIES

FOR

**Construction of 300 Seater Exam Hall at the Tsolo Agricultural and Rural
Development Institute**

FOR

Department of Rural Development & Agrarian Reform

ARCHITECTS

Intsika Architects
1st Floor, Leadwood House, Cedarsquare
Bonza Bay Road
Beacon Bay, East London
5241

Tel. 043 748 2949
Fax: 043 748 1702
e Mail: rob@intsika.com

Principal Agent

Intsika Architects
Tel. 043 748 2949
Fax: 043 748 1702
e Mail: rob@intsika.com

Electrical & Mechanical Engineers

BVI Engineers
Tel. 043 722 2738
Fax: 043 747 7698
e Mail: WernerDL@bvi.co.za

QUANTITY SURVEYORS

Bisiwe Van Niekerk Inc.
Quantity Surveyors & Project Managers
The Ridge Office Park, 2nd Floor
3 Berea Terrace
Berea
East London

Tel. 043 721 1043
Fax: 043 721 1239
e Mail: admin@bisiwe.co.za

Civil & Structural Engineers

BVI Engineers
Tel. 043 722 2738
Fax: 043 747 7698
e Mail: WernerDL@bvi.co.za

SECTION 1

PRELIMINARIES

Amount

SECTION NO. 1
PRELIMINARIES

MEANING OF TERMS "TENDER / TENDERER"

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

PRELIMINARIES

The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. 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. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable".

PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 A1 DEFINITIONS AND INTERPRETATION

Clause 1.0

Clause 1.1 Definition of "Commencement Date" is added:

"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect

Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:

"CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule

Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:

Carried To Section Summary

R

Section No. 1
Bill No. 1
Preliminaries

Amount

“CONSTRUCTION PERIOD” means the period commencing on the commencement date and ending on the date of practical completion

Clause 1.1 Definition of “Corrupt Practice” is added:

“CORRUPT PRACTICE” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

Clause 1.1 Definition of “Fraudulent Practice” is added:

“FRAUDULENT PRACTICE” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

Clause 1.1 Definition of "Interest" is amended by replacing it with the following:

“INTEREST” means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).

Clause 1.1 Definition of “Principal Agent” is amended by replacing it with the following:

“PRINCIPAL AGENT” means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule

Clause 1.1 Definition of “Security” is amended by replacing it with the following:

“SECURITY” means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss

Clause 1.6 is amended by replacing the words “prepaid registered post, telefax or e-mail” with “prepaid registered post or telefax”

Clause 1.6.4 is amended by replacing it with the following:

No clause

F: V: T:

OBJECTIVE AND PREPARATION

2 A2 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

F: V: T:

Carried To Section Summary

Section No. 1

Bill No. 1

Preliminaries

Item

Item

R

		Amount
3	<p>A3 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing “14.1” with “14.0”</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times</p> <p>Clause 3.10 is amended by replacing the second reference to “principal agent” with the word “employer”</p> <p>F: V: T:</p>	Item
4	<p>A4 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>F: V: T:</p>	Item
5	<p>A5 EMPLOYER’S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>F: V: T:</p>	Item
6	<p>A6 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>F: V: T:</p>	Item
7	<p>A7 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: The provisions herein include inter alia, compliance with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor</p>	
	Carried To Section Summary	R
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	

Amount

Note: A separate section has been included in the BOQ document for the Contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.

F: V: T:

8 A8 WORKS RISK

Item

Clause 8.0

F: V: T:

9 A9 INDEMNITIES

Item

Clause 9.0

F: V: T:

Item

(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion

(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed

(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

	Amount
<p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>10.7.2 Injury to persons or loss of or damage to property</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>F: V: T:</p>	<p>Item</p>
<p>10 A10 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p>	
<p>Section No. 1 Bill No. 1 Preliminaries</p>	<p>Carried To Section Summary</p> <p>R</p>

Amount

(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary

(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works

(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6

(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Injury to Persons or loss of or damage to Properties

(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable

(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable

(c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor

11 A11 LIABILITY INSURANCES

Clause 11.0

F: V: T:

12 A12 EFFECTING INSURANCES

Clause 12.0

F: V: T:

Carried To Section Summary

Item

Item

R

Section No. 1
Bill No. 1
Preliminaries

		Amount
13	<p>A13 No Clause F: V: T:</p>	Item
14	<p>A14 SECURITY Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected. 14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor 14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor 14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p>	
	Carried To Section Summary	R
	Section No. 1	
	Bill No. 1	
	Preliminaries	

Amount

14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor

14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party

14.4 Where security as a variable construction guarantee of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender

14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring

14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee

14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)

14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion

14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring

14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both

14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:

14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

Carried To Section Summary

R

Section No. 1
Bill No. 1
Preliminaries

	Amount
<p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p> <p>14.6.3 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)</p> <p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(B)</p> <p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p>F: V: T:</p>	
<p><u>EXECUTION</u></p>	
<p>15 A15 PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p>	
<p style="text-align: right;">Carried To Section Summary</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>

		Amount
	Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4 F: V: T:	Item
16	A16 ACCESS TO THE WORKS Clause 16.0	Item
	F: V: T:	
17	A17 CONTRACT INSTRUCTIONS Clause 17.0	
	Clause 17.1.11 is amended by deleting the words “and the appointment of nominated and selected subcontractors”	Item
	F: V: T:	
18	A18 SETTING OUT OF THE WORKS Clause 18.0	Item
	F: V: T:	
19	A19 ASSIGNMENT Clause 19.0	Item
	F: V: T:	
20	A20 NOMINATED SUB-CONTRACTORS Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No clause	
	Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums	Item
	F: V: T:	
21	A21 SELECTED SUB-CONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No clause	
	F: V: T:	Item
22	A22 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0	Item
	F: V: T:	
23	A23 CONTRACTOR'S DOMESTIC SUB-CONTRACTORS	
	Carried To Section Summary	R
	Section No. 1 Bill No. 1 Preliminaries	

		Amount
	<p>31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Alternative B</p> <p>31.8(B) Where security as a payment reduction in terms of 14.7 has been selected, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>F: V: T:</p>	
32	<p>A32 ADJUSTMENT TO THE CONTRACT VALUE</p> <p>Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the contractor"</p> <p>F: V: T:</p>	Item
33	<p>A33 RECOVERY OF EXPENSE AND LOSS</p>	Item
	Carried To Section Summary	R
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	

		Amount
	Clause 33.0	
	F: V: T:	
34	A34 FINAL ACCOUNT AND FINAL PAYMENT	
	Clause 34.0	
	Clause 34.1 is amended by removing “#” next to 34.1	
	Clause 34.2 is amended by inserting “#” next to 34.2	
	Clause 34.8 is amended by deleting the words “where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1”	
	Clause 34.13 is amended by replacing “seven (7) calendar days” with “twenty-one (21) calendar days” and deleting the words “subject to the employer giving the contractor a tax invoice for the amount due”	Item
	F: V: T:	
35	A35 PAYMENT TO OTHER PARTIES	
	Clause 35.0	Item
	F: V: T:	
	<u>CANCELLATION</u>	
36	A36 CANCELLATION BY EMPLOYER – CONTRACTOR'S DEFAULT	
	Clause 36.0	
	Clause 36.1 is amended by the addition of the following clauses:	
	36.1.3 refuses or neglects to comply strictly with any of the conditions of contract	
	36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa	
	36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract	
	Clause 36.3 is amended by removing the reference to “No clause” and replacing the words “principal agent” with “employer”	
	Clause 36.0 is amended by the addition of the following clause:	
	36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever	Item
	F: V: T:	
37	A37 CANCELLATION BY EMPLOYER – LOSS AND DAMAGE	
	Carried To Section Summary	R
	Section No. 1	
	Bill No. 1	
	Preliminaries	

		Amount
	<p>Clause 37.0</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>Clause 37.3.5 is amended by replacing “ninety (90)” with “one-hundred and twenty (120)”</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>F: V: T:</p>	Item
38	<p>A38 CANCELLATION BY CONTRACTOR – EMPLOYER’S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing “ninety (90)” with “one-hundred and twenty (120)”</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>F: V: T:</p>	Item
39	<p>A39 CANCELLATION – CESSATION OF THE WORKS</p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence: “within one hundred and twenty (120) working days of completion of such a report”</p> <p>F: V: T:</p>	Item
40	<p><u>DISPUTE</u></p> <p>A40 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing “one (1) year” with “three (3) years”</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing “(10)” with “(15)” and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p> <p>F: V: T:</p>	Item
	Carried To Section Summary	R
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	

		Amount
<u>SUBSTITUTE PROVISIONS</u>		
41	A41 STATE CLAUSES	
	Clause 41.0	Item
	F: V: T:	
<u>CONTRACT VARIABLES</u>		
<u>THE SCHEDULE OF CONTRACT VARIABLES</u>		
42	A42 THE SCHEDULE - PRE-TENDER INFORMATION	
	Clause 42.0	
	Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract	Item
	F: V: T:	
<u>SECTION B: JBCC PRELIMINARIES</u>		
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
43	B1.1 Definitions and interpretation	
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section	Item
	F: V: T:	
<u>B2.0 DOCUMENTS</u>		
44	B2.1 Checking of documents	Item
	F: V: T:	
45	B 2.2 Provisional bills of quantities	Item
	F: V: T:	
46	B2.3 Availability of construction documentation	Item
	F: V: T:	
47	B2.4 Interests of agents	Item
	F: V: T:	
48	B2.5 Priced documents	Item
	F: V: T:	
49	B2.6 Tender submission	
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance"	Item
	F: V: T:	
<u>B3.0 THE SITE</u>		
50	B3.1 Defined works area	Item
	F: V: T:	
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount
51	B3.2 Geotechnical investigation F: V: T:	Item
52	B3.3 Inspection of the site Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission. F: V: T:	Item
53	B3.4 Existing premises occupied F: V: T:	Item
54	B3.5 Previous work - dimensional accuracy F: V: T:	Item
55	B3.6 Previous work - defects F: V: T:	Item
56	B3.7 Services - known F: V: T:	Item
57	B3.8 Services - unknown F: V: T:	Item
58	B3.9 Protection of trees F: V: T:	Item
59	B3.10 Articles of value F: V: T:	Item
60	B3.11 Inspection of adjoining properties, etc. F: V: T:	Item
<u>B4.0 MANAGEMENT OF CONTRACT</u>		
61	B4.1 Management of the works F: V: T:	Item
62	B4.2 Programme for the works F: V: T:	Item
63	B4.3 Progress meetings F: V: T:	Item
64	B4.4 Technical meetings F: V: T:	Item
65	B4.5 Labour and Plant records F: V: T:	Item
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>		
66	B5.1 Samples of materials F: V: T:	Item
67	B5.2 Workmanship samples F: V: T:	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount
68	B5.3 Shop drawings F: V: T:	Item
69	B5.4 Compliance with manufacturers instruction F: V: T:	Item
<u>B6.0 TEMPORARY WORKS AND PLANT</u>		
70	B6.1 Deposits and fees F: V: T:	Item
71	B6.2 Enclosure of the works F: V: T:	Item
72	B6.3 Advertising F: V: T:	Item
73	B6.4 Plant, equipment, sheds and offices F: V: T:	Item
74	B6.5 Main notice board F: V: T:	Item
75	B6.6 Subcontractors notice board F: V: T:	Item
<u>B7.0 TEMPORARY SERVICES</u>		
76	B7.1 Location F: V: T:	Item
77	B7.2 Water F: V: T:	Item
78	B7.3 Electricity F: V: T:	Item
79	B7.4 Telecommunication facilities F: V: T:	Item
80	B7.5 Ablution facilities F: V: T:	Item
<u>B8.0 PRIME COST AMOUNTS</u>		
81	B8.1 Responsibility for prime cost amounts F: V: T:	Item
<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
82	B9.1 General attendance F: V: T:	Item
83	B9.2 Special attendance F: V: T:	Item
84	B9.3 Commissioning - fuel, water and electricity F: V: T:	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount
<u>B10.0 FINANCIAL ASPECTS</u>		
85	B10.1 Statutory taxes, duties and levies F: V: T:	Item
86	B10.2 Payment of preliminaries F: V: T:	Item
87	B10.3 Adjustment of preliminaries Clauses B10.3.1 and B10.3.2 are amended by replacing “within fifteen (15) working days of taking possession of the site” with “when submitting his priced bills of quantities / lump sum document” F: V: T:	Item
88	B10.4 Payment certificate cash flow F: V: T:	Item
<u>B11.0 GENERAL</u>		
89	B11.1 Protection of the works F: V: T:	Item
90	B11.2 Protection/isolation of existing/sectionally occupied works F: V: T:	Item
91	B11.3 Security of the works F: V: T:	Item
92	B11.4 Notice before covering work F: V: T:	Item
93	B11.5 Disturbance F: V: T:	Item
94	B11.6 Environmental Disturbance F: V: T:	Item
95	B11.7 Works cleaning and clearing F: V: T:	Item
96	B11.8 Vermin F: V: T:	Item
97	B11.9 Overhand work F: V: T:	Item
98	B11.10 Instruction manuals and guarantees F: V: T:	Item
99	B11.11 As built information F: V: T:	Item
100	B11.12 Tenant installations F: V: T:	Item
<u>B12 SCHEDULE OF VARIABLES</u>		
101	B12.1 Schedule of variables - Pre-tender information F: V: T:	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount
102	<p>B12.1 Schedule of variables - Pre-tender information</p> <p>This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.</p> <p>Spaces requiring information must be filled in, shown as “not applicable” or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets</p> <p>F: V: T:</p> <p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional bills of quantities</p> <p>[2.2] The quantities are provisional (yes/no) NO</p> <p>12.1.2 Availability of construction documentation</p> <p>[2.3] Construction documentation is complete (yes/no) NO</p> <p>12.1.3 Interests of agents</p> <p>[2.4] Details: To be advised</p> <p>12.1.4 Defined works area</p> <p>[3.1] Details: The site is on the existing Tsolo Agricultural and Rural Development Institute, Farm No: 61, Tsolo.</p> <p>12.1.5 Geotechnical investigation</p> <p>[3.2] Details: N/A - NONE</p> <p>12.1.6 Existing premises occupied</p> <p>[3.4] Specific requirements: The site is on the existing campus with other surrounding buildings which are occupied and will need to remain occupied and in operation during construction. There are no buildings on the specific site.</p> <p>12.1.7 Previous work – dimensional accuracy</p> <p>[3.5] Details: N/A</p> <p>12.1.8 Previous work – defects</p> <p>[3.6] Details: N/A</p> <p>12.19. Service – known</p> <p>[3.7] Details:</p> <p>Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent.</p>	
	<p style="text-align: right;">Carried To Section Summary</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	<p>R</p>

	Amount
<p>12.1.10 Protection of trees [3.9] Specific requirements: All trees on the site outside of the position of the proposed structure must be protected.</p>	
<p>12.1.11 Inspection of adjoining properties [3.11] Specific requirements: The contractor must inspect adjoining properties and immediately bring to the notice of the Principal Agent of any consequences that may arise from the building works.</p>	
<p>12.1.12 Enclosure of the works [6.2] Specific requirements: The contractor shall enclose the works as required by the Occupational Health and Safety Act and prevent any unauthorised access to the site.</p>	
<p>12.1.13 Offices [6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.</p>	
<p>12.1.14 Main notice board [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3000 x 3420mm constructed of suitable boarding with flat smooth surface and with edging bead 40mm thick all round. The board shall be securely fixed to hoarding where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted EPWP "orange" with 40mm wide white dividing lines. All wording shall be inscribed in black painted sans serif lettering. (Proof to be sent to Client for approval). Sub-contractor's individual boards will be allowed on the site subject to the written approval of the Representative/Agent.</p>	
<p>12.1.15 Subcontractors' notice board 6.6] Specific requirements: (yes/no) NO</p>	
<p>12.1.16 Water [7.2] Option A (by contractor) (yes/no) YES Option B (by employer – free of charge) (yes/no) NO</p>	
<p style="text-align: right;">Carried To Section Summary</p>	R
<p>Section No. 1 Bill No. 1 Preliminaries</p>	

	Amount
Option C (by employer – metered) (yes/no) NO	
12.1.17 Electricity	
[7.3] Option A (by contractor) (yes/no) YES	
Option B (by employer – free of charge) (yes/no) NO	
Option C (by employer – metered) (yes/no) NO	
12.1.18 Telecommunications	
[7.4] Telephone (yes/no) YES	
Facsimile (yes/no) NO	
E-mail (yes/no) YES	
12.1.19 Ablution facilities	
[7.5] Option A (by contractor) (yes/no) YES	
Option B (by employer) (yes/no) NO	
12.1.20 Protection of existing/sectionally occupied works	
[11.2] Protection is required (Only when existing buildings) (yes/no) NO	
12.1.21 Special attendance	
[9.2] Electrical Subcontractor (1) details: Site Meetings	
Mechanical Subcontractor (2) details: Site Meetings	
12.1.22 Protection of the works	
[11.1] Specific requirements:	
The contractor shall protect the works for the duration of the contract.	
12.1.23 Disturbance	
[11.5] Specific requirements:	
The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent	
12.1.24 Environmental disturbance	
[11.6] Specific requirements: N/A - NONE	
12.2 POST-TENDER INFORMATION	
12.2.1 Payment of preliminaries	
[10.2] Option A (prorated) (yes/no) -	
Option B (calculated) (yes/no) -	
12.2.2 Adjustment of preliminaries	
[10.3] Option A (three categories) (yes/no) -	
Option B (detailed breakdown) (yes/no) -	
Carried To Section Summary	R
Section No. 1	
Bill No. 1	
Preliminaries	

12.2.3 Additional agreed preliminaries items

Details: EPWP requirements as per form C3.5 of the tender documentation.

SCHEDULE OF SUPPLEMENTARY INFORMATION

NOTE:

Amount of insurance against removal of support to adjoining properties in respect of any single occurrence - Not specifically prescribed

Contract Price Adjustment Provisions (CPAP): - YES - Contract Price Adjustment is applicable

Contract period - 12 (Twelve) Months

The date for site handover :- TBA

Amount of penalty per day on which the completion of the works may be in arrear:

R2.75c per R100 of contract value per calendar day (Excluding VAT)

Contract drawing numbers: Refer to Attached Set of Tender Drawings for all Disciplines under Volume 4

Specification of materials and methods to be used: - PW 371, Fourth Revision, October 1993

Edition of Standard System of measuring building work: Seventh Edition including the latest amendments

The information listed below is in respect of certain clauses in the Preliminaries, requiring the supplementary information :

Amount of insurance against injury to person or property in respect of any single occurrence - R 5 million

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

C1 CONTRACT DRAWINGS

103 The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed.

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.

F: V: T:

Carried To Section Summary

Section No. 1
Bill No. 1
Preliminaries

Amount

Item

R

		Amount
<u>C2 GENERAL PREAMBLES</u>		
104	<p>The document "Specification of Materials and Methods to be used (PW371-A)" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used</p> <p>F: V: T:</p>	Item
<u>C3 TRADE NAMES</u>		
105	<p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>F: V: T:</p>	Item
<u>C4 IMPORTED MATERIALS AND EQUIPMENT</u>		
106	<p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>F: V: T:</p>	Item
<u>C5 VIEWING THE SITE IN SECURITY AREAS</u>		
107	<p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>F: V: T:</p>	Item N/A
<u>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</u>		
108	<p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account</p> <p>F: V: T:</p>	Item N/A
Carried To Section Summary		R
Section No. 1 Bill No. 1 Preliminaries		

		Amount
<u>C7 ENTRANCE PERMITS TO SECURITY AREAS</u>		
109	<p>As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer</p> <p>F: V: T:</p>	Item N/A
<u>C8 SECURITY CHECK OF PERSONNEL</u>		
110	<p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>F: V: T:</p>	Item N/A
<u>C9 PROHIBITON ON TAKING OF PHOTOGRAPHS</u>		
111	<p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>F: V: T:</p>	Item N/A
<u>C10 HIV/AIDS AWARENESS</u>		
112	<p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>C10.1 AWARENESS CHAMPION</p>	
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification F: V: T:	Item
113	C10.2 AWARENESS WORKSHOPS	
	Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification F: V: T:	Item
114	C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.	
	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification F: V: T:	Item
115	C10.4 ACCESS TO CONDOMS	
	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification F: V: T:	Item
116	C10.5 MONITORING	
	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification F: V: T:	Item
	<u>C11 OCCUPATIONAL HEALTH AND SAFETY ACT</u>	
117	The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.	
	Carried To Section Summary	R
	Section No. 1 Bill No. 1 Preliminaries	

	Amount
<p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>Note: A separate section has been included in the BOQ document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>F: V: T:</p>	
<p><u>C12 EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) Infrastructure Projects: NATIONAL YOUTH SERVICE (NYS)</u></p>	
<p>118 The Contractor shall comply with Additional Specification SL: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS) as attached to these Bills of Quantities.</p> <p>The Contractor shall identify a minimum number of youth workers as indicated, from a priority list and employ them at the statutory labour rates for a minimum period of 6 months and train them as per Specification SL.</p> <p>The Contractor shall liaise and co-ordinate with the Service Provider in providing the priority list and the selection of youth workers and with the employment and training of the identified youth workers.</p> <p>The Contractor shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers to act as their construction supervisor. This foreman will be responsible for continuously monitoring the progress of the youth workers and to address questions and issues that may arise from the youth workers.</p> <p>A separate provisional allowance item, subject to re-measurement, has been scheduled in the Provisional Allowances section of this bill to cover the direct costs associated with training.</p> <p>F: V: T:</p>	<p>Item</p> <p>Item</p>
<p>119 <u>C13 SITE INSTRUCTION</u></p> <p>Contract 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 at all times.</p> <p>F: V: T:</p>	<p>Item</p>
<p style="text-align: right;">Carried To Section Summary</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>

		Amount
<u>C14 WARRANTIES FOR MATERIAL AND WORKMANSHIP</u>		
120	<p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F: V: T:</p>	Item
<u>C15 CO-OPERATION OF THE CONTRACTOR FOR COST MANAGEMENT</u>		
121	<p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors</p> <p>F: V: T:</p>	Item
<u>C16 PROPPING OF FLOORS BELOW</u>		
122	<p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p> <p>F: V: T:</p>	Item
<u>C17 TESTING OF WINDOWS FOR WATER TIGHTNESS</u>		
123	<p>Each window shall be tested for water tightness with water sprayed on using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means</p> <p>F: V: T:</p>	Item
Carried To Section Summary		R
Section No. 1 Bill No. 1 Preliminaries		

		Amount
<u>C18 TESTING OF FLAT ROOF WATERPROOFING FOR WATER TIGHTNESS</u>		
124	<p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent , flooded with water and kept 'ponded' for at least 36 hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing.</p> <p>F: V: T:</p>	Item
<u>C19 PROPRIETARY BRANDED PRODUCTS</u>		
125	<p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.</p> <p>F: V: T:</p>	Item
<u>C20 CONTRACTORS RESPONSIBILITY</u>		
126	<p>The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.</p> <p>F: V: T:</p>	Item
<u>C21 OVERTIME</u>		
127	<p>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.</p> <p>F: V: T:</p>	Item
<u>C22 AS BUILT DRAWINGS</u>		
128	<p>The position of construction breaks and the extend of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>F: V: T:</p>	Item
<u>C23 SPECIAL WORKS/DIRECT CONTRACTS</u>		
129	<p>The Employer and tenants shall have the right to employ other Contractors (hereinafter referred to as 'Direct Contractors') to execute any special or other Works whether contained in this Contract or not, concurrently with the work being executed under this contract.</p>	
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

		Amount
	<p>The Contractor shall not be entitled to any percentage, profit or discount on the value of any work executed by 'Direct Contractor's and reflected as 'Provisional Sums' but shall nevertheless allow these direct Contractors and Employers employees to have access to the Works, allocate reasonable space for the storage of their materials, tools and equipment, and co-ordinate the work of such Direct Contractors as necessary, all to the satisfaction of the Architect. The Contractor shall also allow Direct Contractors, etc., to use, free of charge, the latrine accommodation and water and power supply on the site, and shall not in any way hinder or prevent the execution of their work.</p> <p>F: V: T:</p>	Item
	<p><u>C24 GUARANTEES AND MAINTENANCE MANUALS</u></p>	
130	<p>The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by manufacturer's, suppliers or Sub-Contractors.</p> <p>The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.</p> <p>F: V: T:</p>	Item
	<p><u>C25 MEDIA RELEASES</u></p>	
131	<p>All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer. The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media.</p> <p>F: V: T:</p>	Item
	<p><u>C26 COST OF CLAIM</u></p>	
132	<p>All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.</p> <p>F: V: T:</p>	Item
	<p><u>C27 TENDER SUM TO BE FULLY INCLUSIVE</u></p>	
133	<p>The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for:</p> <p>The supply of all materials.</p> <p>Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet the stipulated programme dates.</p> <p>All making, transport, conveying, cartage, carriage and delivery, etc.</p> <p>Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings fixing and building into positions, cutting and waste, templates, patterns and models.</p>	
	Carried To Section Summary	R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>	

		Amount
	<p>Provision and maintenance of all plant equipment, machines trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc.</p> <p>All applicable import taxes and duties.</p> <p>Overheads and profit.</p> <p>All obligations arising out of the Bills of Quantities, and all costs and charges deemed necessary for complying with the terms and conditions herein.</p> <p>All charges required by the Contractor in connection with Preliminary and General, site establishment and the like.</p> <p>F: V: T:</p> <p><u>C28 REMOVAL AND MAKING GOOD OF TEMPORARY WORK, ETC, ON COMPLETION</u></p>	Item
134	<p>The Contractor shall remove all (except where specifically stated otherwise) temporary Works, roads, services and the like used for this Contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p> <p>F: V: T:</p> <p><u>C29 LOCATION OF TEMPORARY BUILDINGS AND TEMPORARY SERVICES</u></p>	Item
135	<p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and Sub-Contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> <p>F: V: T:</p> <p><u>C30 MAKING GOOD</u></p>	Item
136	<p>All materials and workmanship in building up, making good, etc., are to match existing and where new materials abutt existing, they are to be neatly jointed to same.</p> <p>'Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.</p> <p>'Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Principal Agent's satisfaction.</p> <p>F: V: T:</p>	Item
	Carried To Section Summary	R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>	

		Amount
<u>C31 STANDARD OF WORKMANSHIP AND MATERIALS</u>		
137	<p>In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.</p> <p>F: V: T:</p>	Item
<u>C32 COMMODITIES TO BE NEW</u>		
138	<p>All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work.</p> <p>F: V: T:</p>	Item
<u>C33 SHOP DRAWINGS</u>		
139	<p>The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work. The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure:</p> <p>A) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.</p> <p>B) Shop drawings shall be submitted to the Principal Agent for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.</p> <p>C) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instructions shall not constitute grounds for any claims for delay, extension of time and the like.</p> <p>D) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agents stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agents approval.</p>	
Carried To Section Summary		R
Section No. 1 Bill No. 1 Preliminaries		

		Amount
	<p>E) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.</p> <p>F) The Principal Agents approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.</p> <p>G) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Principal Agent constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive.</p> <p>H) One copy of the final approved set of 'Shop Drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.</p> <p>F: V: T:</p> <p><u>C34 MODE OF PROCEDURE</u></p>	Item
140	<p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> <p>F: V: T:</p> <p><u>C35 UNAUTHORIZED PERSONS/WORKMEN ON PREMISES</u></p>	Item
141	<p>The Contractor shall at all times strictly exclude all unauthorized persons from the Works and the Site, and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p> <p>F: V: T:</p> <p><u>C36 METHOD STATEMENT</u></p>	Item
142	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p> <p>F: V: T:</p>	Item
	Carried To Section Summary	R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>	

		Amount
<u>C37 SAFETY HELMETS</u>		
143	<p>The Contractor shall take all necessary steps to ensure that all workmen employed on the Works comply with regulations regarding the wearing of safety helmets and shall provide safety helmets for authorized site visitors. The Contractor shall erect notice boards warning all workmen and visitors to wear safety helmets on or about the Works.</p> <p>F: V: T:</p>	Item
<u>C38 ENCROACHMENT</u>		
144	<p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p> <p>F: V: T:</p>	Item
<u>C39 SCAFFOLDING</u>		
145	<p>In accordance with the 7th Edition of the Standard System of Measurement, no special scaffolding has been measured. The Tenderer is advised to visit the site and to study the drawings to assess any special requirements he may deem necessary for the Works. The Tenderer is to price against this item in respect of any special scaffolding and temporary propping requirements for the Works.</p> <p>F: V: T:</p>	Item
<u>C40 ENVIRONMENTAL PLAN</u>		
146	<p>The Contractor shall for the duration of this contract be deemed to be the mandatory of the Council for the purposes of the Environmental Management Plan and he shall prior to taking occupation of the site satisfy Council by means of written representations that he has fully complied with the relevant requirements of the said Act. The Contractor is referred to the Environmental Management Plan Document appended to the back of this Bills of Quantities.</p> <p>F: V: T:</p>	Item
<u>C41 LOCAL LABOUR</u>		
147	<p>The extend of usage of local labour will be as set out in the Scope of Works. The contractor is to make every effort to make use of local labour for the contract.</p> <p>F: V: T:</p>	Item
<u>C42 CONTRACTORS REPORTS / LABOUR RECORDS / PLANT RECORDS</u>		
148	<p>Monthly the contractor shall provide the principal agent with a written record, in an approved schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day as well as the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p> <p>The contractor shall maintain records on a daily basis of all persons employed on the site as well as all plant on the site.</p>	
Carried To Section Summary		R
Section No. 1		
Bill No. 1		
Preliminaries		

The Contractor is required to furnish the Employer with a detailed report in a required format on a monthly basis and is to make provision under this item for completing the reports on a monthly basis.

F: V: T:

C43 ACCELARATION OF WORKS

149 The contractor is advised that for the duration of the contract every alternative weekend will be regarded as a seven day week in order to accelarate the works. The contractor must make due allowance for this in his pricing.

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Item	Amount
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Item	N/A
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Carried To Section Summary

R

Section No. 1
Bill No. 1
Preliminaries

SECTION NO. 1

PRELIMINARIES

SECTION SUMMARY

Amount

Page

Brought forward from page	1
Brought forward from page	2
Brought forward from page	3
Brought forward from page	4
Brought forward from page	5
Brought forward from page	6
Brought forward from page	7
Brought forward from page	8
Brought forward from page	9
Brought forward from page	10
Brought forward from page	11
Brought forward from page	12
Brought forward from page	13
Brought forward from page	14
Brought forward from page	15
Brought forward from page	16
Brought forward from page	17
Brought forward from page	18
Brought forward from page	19
Brought forward from page	20
Brought forward from page	21
Brought forward from page	22
Brought forward from page	23
Brought forward from page	24
Brought forward from page	25

Carried to Next

R

Section No. 1
SECTION SUMMARY

		R	Amount
Brought from Previous			
	Brought forward from page	26	
	Brought forward from page	27	
	Brought forward from page	28	
	Brought forward from page	29	
	Brought forward from page	30	
	Brought forward from page	31	
	Brought forward from page	32	
	Brought forward from page	33	
	Brought forward from page	34	
Carried to Final Summary		R	

Section No. 1
SECTION SUMMARY

SECTION 2
BUILDING WORKS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 1</u> <u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Nature of ground:</u> The Tenderer must acquaint himself with the nature of the material to be excavated. The nature of the ground is assumed to be loose fine to medium sandy material, therefore earth, but possibly interspersed with hard rock or soft rock. In most areas the nature of the ground is assumed to be well compacted filling as a result of platforms created under Bulk Earthworks, therefore 'earth'.</p> <p><u>Subterranean Water:</u> No information regarding subterranean water is available. The Tenderer must acquaint himself of the presence and depth of the subterranean water and allow therefore in his price. The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water.</p> <p><u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 1 Earthworks (provisional)</p>			R	

	Unit	Quantity	Rate	Amount
<u>Density Testing :</u>				
Prices for filling are to include for all necessary density and other tests.				
Rates of filling, etc shall include for all density and soil type testing to prove that the specified compaction is achieved.				
When additional testing is done on instruction of the Architect/Engineer and these tests are successful, they will be paid for additionally.				
<u>EARTHWORKS (PROVISIONAL)</u>				
<u>EXCAVATION OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
1				
	m ³	173		
2				
	m ³	70		
<u>Extra over excavations other than bulk in earth for excavation in:</u>				
3				
	m ³	12		
4				
	m ³	6		
<u>Risk of collapse of excavations other than bulk:</u>				
5				
	m ²	568		
<u>CARTING AWAY.</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
6				
	m ³	243		
7				
	m ³	116		
<u>EARTH FILLING, ETC.</u>				
<u>Filling with selected material from the excavations compacted to a density of at least 93% Mod. AASHTO maximum density:</u>				
8				
	m ³	121		
9				
	m ³	6		
<u>Filling with approved G7 material supplied and carted onto site by the Contractor, compacted to a density of at least 93% Mod. AASHTO maximum density:</u>				
10				
	m ³	250		
Carried to Collection			R	
Section No. 2				
Bill No. 1				
Earthworks (provisional)				

	Unit	Quantity	Rate	Amount
11 Under pavings, aprons, etc. <u>Filling with approved G5 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>	m ³	44		
12 Under surface beds, floors, etc. <u>Coarse river sand filling compacted to 95% Mod. AASHTO maximum density:</u>	m ³	124		
13 25mm thick under floors, etc. <u>Selected topsoil filling obtained from the excavations and/or prescribed stock piles on site, lightly consolidated :</u>	m ²	742		
14 In planter boxes <u>Surface Preparation:</u>	m ³	4		
15 Trim and level off surface of ground (excavated or filled under this Contract) to receive concrete surface beds, aprons, ramps, etc., including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 95% Mod. AASHTO maximum density. <u>KEEPING EXCAVATIONS FREE OF WATER</u> <u>Keeping excavations free of water:</u>	m ²	1 032		
16 Allow for keeping excavations free of all water by hand or machinery. <u>WEED KILLERS, INSECTICIDES, ETC</u> <u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasion 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m</u>	Item			
17 Under paving, aprons, etc. <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>	m ²	290		
18 Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m ²	742		
19 To bottoms and sides of trenches, etc.	m ²	811		
Carried to Collection				
Section No. 2 Bill No. 1 Earthworks (provisional)			R	

	Unit	Quantity	Rate	Amount
<p>TESTS</p> <p>Rates of filling, etc shall include for all density and soil type testing to prove that the specified compaction is achieved.</p> <p>When additional testing is done on instruction of the Architect/Engineer and these tests are successful, they will be paid for additionally.</p> <p><u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u></p>				
20 Modified AASHTO Density test	No	15		
<p>Section No. 2 Bill No. 1 Earthworks (provisional)</p>				<p style="text-align: right;">Carried to Collection</p> <p style="text-align: right;">R</p>

SECTION NO. 2
BUILDING WORKS
BILL NO. 1
EARTHWORKS (PROVISIONAL)
COLLECTION

Brought Forward from Page

Page No

37

38

39

40

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 1
Earthworks (provisional)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p>				
<p><u>PREAMBLES</u></p>				
<p>For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
<p><u>Cost of Tests:</u></p>				
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect/Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect/Engineer. (Test cubes are measured separately).</p>				
<p><u>Formwork:</u></p>				
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p>				
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p>				
<p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>				
<p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>				
<p>Carried to Collection</p>				
<p>Section No. 2 Bill No. 2 Concrete, Formwork And Reinforcement</p>				
			R	

	Unit	Quantity	Rate	Amount
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15Mpa/19mm Concrete:</u>				
1				
1	m ³	12		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25Mpa/19mm Concrete:</u>				
2	m ³	53		
3	m ³	28		
4	m ³	1		
5	m ³	2		
6	m ³	73		
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
<u>30MPa/19mm concrete</u>				
7	m ³	2		
8	m ³	11		
9	m ³	1		
10	m ³	1		
11	m ³	3		
12	m ³	3		
13	m ³	1		
14	m ³	23		
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
15	Sets	25		
Carried to Collection				
Section No. 2				
Bill No. 2				
Concrete, Formwork And Reinforcement				
			R	

	Unit	Quantity	Rate	Amount
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a wood float (Class U2):</u>				
16				
16	m ²	18		
<u>Finishing top surfaces of concrete smooth with a power float :</u>				
17	m ²	639		
<u>GROUTING</u>				
<u>25MPa non-shrink grout :</u>				
18	No	12		
19	No	2		
20	No	2		
21	No	2		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough Formwork to Sides:</u>				
22	m ²	18		
23	m ²	115		
24	m ²	6		
25	m ²	22		
26	m ²	27		
27	m ²	4		
28	m	65		
<u>Rough formwork to soffits</u>				
29	m ²	10		
30	m ²	101		
Carried to Collection				
Section No. 2			R	
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<u>Rough formwork to sides and soffits</u>				
31	Lintel beams propped up exceeding 1,5m and not exceeding 3.5m high	m ²	5	
32	Beams propped up exceeding 1,5m and not exceeding 3.5m high	m ²	28	
<u>Boxing in rough formwork to form</u>				
33	50 x 50mm Chamfers along top or bottom edges. (Provisional).	m	12	
34	50 x 50mm Vertical chamfers at corners. (Provisional).	m	134	
<u>MOVEMENT JOINTS ETC</u>				
<u>Two layers of 3-ply malthoid in slip joints between horizontal concrete and brick surfaces including cement mortar bed.</u>				
35	Not exceeding 300mm wide	m	122	
<u>Isolation joints with 10mm Thick 'Sondor' or equally approved jointex joint between horizontal concrete and brick surfaces</u>				
36	10mm Joints not exceeding 300mm high.	m	281	
37	10mm Joints not exceeding 300mm high at rainwater plinths	m	12	
<u>Horizontal joggle construction joints through concrete including thick cement slurry or bitumen paint to one face to form bond breaker.</u>				
38	Surface beds not exceeding 300mmm thick.	m	147	
<u>Saw cut joints:</u>				
39	3 x 25mm Saw cut joints in top of concrete surface beds to saw cut joints.	m	433	
40	3 x 25mm Saw cut joints in top of concrete surface beds to construction joints.	m	147	
<u>REINFORCEMENT, ETC. (PROVISIONAL)</u>				
<u>Mild steel reinforcement to structural concrete work :</u>				
41	R8mm Diameter bars	Tonnes	2.33	
42	R10mm Diameter bars	Tonnes	2.33	
<u>High tensile steel reinforcement to structural concrete work :</u>				
43	Y10mm Diameter bars	Tonnes	2.33	
Carried to Collection			R	
Section No. 2				
Bill No. 2				
Concrete, Formwork And Reinforcement				

SECTION NO. 2
BUILDING WORKS
BILL NO. 2
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

Brought Forward from Page

Page No

42

43

44

45

46

Amount

Carried To Section Summary

Section No. 2
Bill No. 2
Concrete, Formwork And Reinforcement

R

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 3</u> <u>MASONRY</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>BRICKWORK</u> <u>Cement Mortar</u> Unless otherwise described, all brickwork shall be built in 1:5 cement mortar</p> <p><u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.</p> <p><u>Hollow walls etc</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole and galvanised butterfly wire ties at 5 per square meter. Descriptions of hollow walls to receive concrete filled cavities shall be deemed to include building up brickwork in increments not exceeding 1m high or as otherwise instructed by Engineer, filling cavity with concrete infill, before raising brickwork further. Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats 'Brixal' bitumen emulsion waterproofing coating.</p> <p><u>Brick reinforcement</u> Descriptions of brickwork shall be deemed to include for steel reinforcing fabric as specified every fourth course in superstructure and every course in foundations. Additional reinforcement in lintols, etc. are measured seperately</p>				
Carried to Collection				R
<p>Section No. 2 Bill No. 3 Masonry</p>				

	Unit	Quantity	Rate	Amount
<u>Face bricks</u>				
Bricks shall be ordered timeously to obtain uniformity in size and colour.				
<u>Pointing:</u>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
<u>Samples:</u>				
Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.				
Rates for brickwork, faced brickwork, etc shall include for all required samples.				
<u>Brickwork:</u>				
All brickwork to comply with SANS 10164 Part 1-1980 or the latest revision.				
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>				
1		One brick walls.	m ²	172
2		One brick walls in planter boxes and bench seating.	m ²	24
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar:</u>				
3		Half brick walls in beamfilling.	m ²	7
4		One brick walls.	m ²	202
5		One brick walls in internal gable fire walls above concrete beam.	m ²	29
6		One brick walls in rainwater tank plinths.	m ²	7
7		One brick walls in planter boxes and bench seating.	m ²	21
8		One brick walls of two half brick skins bagged and sealed.	m ²	458
9		350mm Brick walls of three half brick skins bagged and sealed.	m ²	12
Carried to Collection				
Section No. 2				
Bill No. 3				
Masonry				
			R	

	Unit	Quantity	Rate	Amount
<u>BRICKWORK SUNDRIES</u>				
<u>Joint forming material in movement joints:</u>				
10				
10	m ²	20		
11				
11	m ²	11		
<u>Brickwork reinforcement:</u>				
12	m	21		
13	m	2 187		
14	m	784		
<u>Turning pieces:</u>				
15	m	4		
<u>Prestressed fabricated concrete lintels including necessary temporary supports :</u>				
16	m	88		
17	m	23		
<u>Galvanised hoop iron cramps, ties, etc:</u>				
18	No	250		
19	No	135		
20	No	54		
<u>Bagging of 1:3 cement and sand mixture</u>				
21	m ²	19		
22	m ²	7		
Carried to Collection			R	
Section No. 2				
Bill No. 3				
Masonry				

	Unit	Quantity	Rate	Amount
<u>FACE BRICKWORK</u>				
<u>Corobrick Midrand 27-40Mpa Firelight Imperial FBX Clay satin face bricks (or equally approved), size 222 x 106 x 73mm, manufactured in accordance with 227:2007, bedded and jointed in Class II mortar and pointed with recessed horizontal and vertical joints, suitable for exposure zones 1-4 :</u>				
23	m ²	46		
24	m ²	236		
25	m ²	18		
26	m	5		
27	m	9		
<u>FACE BRICKWORK COPINGS, SILLS, ETC.</u>				
<u>Brick-on-edge header course copings, sills, etc of Selected Face Bricks as before, pointed with recessed joints on all exposed faces:</u>				
28	m	64		
<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>				
<u>'Everite Nutec' (or equally approved) window sills in single lengths not exceeding 3.6m, bedded in class I mortar including fixing lugs screwed to underside with self tapping screws:</u>				
29	m	64		
<u>PAVING ETC</u>				
Paving shall be laid in accordance with SANS 1200 MJ, SANS 1058 and the Concrete Masonry Associations specifications and manuals.				
Paving shall be laid to Stack Bond pattern on 25mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere), laid with a minimum longitudinal fall of 1% on a transverse fall of at least 2%.				
Clean fine jointing sand shall be swept and vibrated into joints between paving at completion and paving is to be inspected and re-sanded after three (3) months.				
Carried to Collection				
Section No. 2				
Bill No. 3				
Masonry				
			R	

	Unit	Quantity	Rate	Amount
<p><u>'Corobrik (KwaZulu Natal) Flagstone Charcoal S-C concrete paving bricks (or equally approved), manufactured in accordance SANS 1058.</u></p> <p><u>Paving of 440 x 440 x 40mm thick concrete paving bricks with butt joints on 25mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling (Filling elsewhere measured) :</u></p>				
30				
	m ²	290		
31				
	m	140		
<p><u>Precast concrete edging/kerbing finished smooth on exposed surfaces including bedding, jointing and pointing, etc.</u></p>				
32				
	m	140		
Carried to Collection				
Section No. 2				
Bill No. 3				
Masonry				
			R	

SECTION NO. 2
BUILDING WORKS
BILL NO. 3
MASONRY
COLLECTION

Brought Forward from Page

Page No

48

49

50

51

52

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 3
Masonry

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p>Waterproofing is to be laid in strict accordance with the manufacturers Code of Practice and by an Approved Contractor.</p> <p>Preparation of substrata: Screeded roof surfaces shall be firm, dry and clean. Corners shall be coved or arris rounded. All surfaces to receive waterproofing are to be fully primed with a solvent based bitumen primer.</p> <p>Timber boarded roof surfaces shall be dry, clean and even. All internal angles are to receive a timber triangular fillet. Corners and edges shall be arris rounded.</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u> <u>One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:</u></p> <p>1 In walls. m² 70</p> <p><u>One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:</u></p> <p>2 Under surface beds. m² 728</p> <p>3 Under surface beds at rainwater tank plinths. m² 14</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 4 Waterproofing</p>				
			R	

	Unit	Quantity	Rate	Amount
<u>One layer 375 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape :</u>				
4				
Vertically to walls at rainwater tank plinths.				
	m ²	7		
<u>'ABE Dura flex' or equally approved liquid application with ecofelt. All surfaces to be free from oil, grease, wax, dirt or any other form of foreign matter that might affect adhesion. Mix using a mechanical mixer until homogeneous and free of lumps. Apply three coats dura.@flex with alternate coats at right angles to each other using a brush, squeegee, trowel or spray with an overcoating time of 16 hours, all in accordance with manufacturer's recommendations.</u>				
5				
On concrete floors to bottom of planter boxes.				
	m ²	9		
6				
On bagged brick walls to planter boxes.				
	m ²	19		
7				
On bagged brick walls at rainwater tank plinths.				
	m ²	7		
<u>WATERPROOFING TO ROOFS ETC</u>				
<u>'ABE Dura flex' or equally approved liquid application with ecofelt. All surfaces to be free from oil, grease, wax, dirt or any other form of foreign matter that might affect adhesion. Mix using a mechanical mixer until homogeneous and free of lumps. Apply three coats dura.@flex with alternate coats at right angles to each other using a brush, squeegee, trowel or spray with an overcoating time of 16 hours, all in accordance with manufacturer's recommendations.</u>				
8				
On balcony floors to receive tiles (elsewhere measured).				
	m ²	53		
9				
On tops and sides of upstand plastered beams.				
	m ²	23		
10				
Dressing and sealing into 75mm internal diameter outlet , including additional membrane				
	No	2		
<u>FLASHINGS ETC.</u>				
<u>Prepare, prime and apply Geoflex or equally approved and mat fabric and two coats Geoflex liquid plastic flashing compound at 2 l/m2 :</u>				
11				
Parapet walls (Provisional).				
	m ²	14		
12				
Bandage flashing 500mm wide (Provisional.				
	m	24		
Carried to Collection				
Section No. 2				
Bill No. 4				
Waterproofing				
			R	

		Unit	Quantity	Rate	Amount
<u>JOINT SEALANTS ETC</u>					
<u>Approved silicone or equally approved sealing compound :</u>					
13	In pointing joints around timber frames and face brick walls externally.	m	12		
<u>Approved two-part polyurethane sealing compound including backing cord, bond breaker, primer, etc</u>					
14	3 x 25mm In saw cut joints in floors.	m	580		
15	10 x 10mm In isolation expansion joints in floors including raking out expansion joint filler as necessary.	m	293		
16	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	124		
Carried to Collection					
Section No. 2					
Bill No. 4					
Waterproofing					
					R

SECTION NO. 2
BUILDING WORKS
BILL NO. 4
WATERPROOFING
COLLECTION

Brought Forward from Page

Page No

54

55

56

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 4
Waterproofing

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 5</u> <u>ROOF COVERINGS</u></p>				
<p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p>				
<p><u>Notes:</u> The following roof sheeting systems are to be manufactured and/or supplied and installed in strict accordance with the Manufacturer's and/or Supplier's specifications. Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved Instruction Book.</p>				
<p><u>Sheeting :</u> The roof sheeting shall be interlocking concealed-fix roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Galvanized 0.58mm steel. Galvanized steel shall be certified and comply with ASTM A 653 SG 550 (3T) and be finished as described. A certificate verifying compliance shall be issued by the manufacturer. 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 a female rib. When interlocked, the minimum sheet depth shall be 48mm. Each trough shall incorporate two stiffener ribs. Contractor to ensure that the roof sheeting is to be turned up at ridges to form a dam and turned down at gutters to form a drip. Ensure that the female overlap is not facing in the direction of the prevailing wind and ensure that overlapping sheets are positively locked into position.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 5 Roof Coverings</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>Fixing :</u></p> <p>The sheets shall be fixed to every purlin by means of patented D1 Starting clips, D2 Duplex clips and D3 Finishing clips which will securely hold the sheets in position and lock-in both the sidelap and centre rib. The D1, D2 and D3 clips shall be manufactured from Galvanized steel and shall be fixed to the steel purlin with the appropriate self-drilling/tapping screws or with ZAP no 10x45mm Waferhead screws type 17 to timber purlins.</p> <p><u>Flashings :</u></p> <p>Flashings specifications shall be to the manufacturers standards and fixed to the sheeting with S1 brackets or, sliding brackets at apex where roof sheets are 30m or longer, to obviate any direct fixing perforations. 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. Transverse flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer.</p> <p><u>Erection, safety, handling and storage:</u></p> <p>Every precaution shall be taken to prevent damage to roof sheets, cladding, etc., during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.</p> <p>Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.</p> <p>Sheetings should be suitably supported, clear of the ground, under well ventilated cover, away from risk of damage from building operations, contact with cement, dust, lime and abrasive dust, until required to be installed.</p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 5 Roof Coverings</p>			R	

	Unit	Quantity	Rate	Amount
<p>The contractor shall ensure that all materials used on site for roofing/cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.</p>				
<p><u>Protrusion through sheeted surfaces :</u></p>				
<p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. 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 corrugations.</p>				
<p><u>Guarantee :</u></p>				
<p>The manufacturer shall comply with ISO 9001:2008 Quality Management System. The standing seam concealed fix 406 sheeting shall be laid in strict accordance with the manufacturer's specifications by an approved contractor.</p>				
<p>A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection and approval of concealed-fix roofing, cladding, etc., by the Manufacturer on condition that the sheeting was laid by an approved contractor.</p>				
<p><u>Cleaning of roof, etc:</u></p>				
<p>All debris, swarf, etc. arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters.</p>				
<p>Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc.</p>				
<p>Carried to Collection</p>				
<p>Section No. 2 Bill No. 5 Roof Coverings</p>				
			R	

	Unit	Quantity	Rate	Amount
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>'Global Roofing Solutions' 0.58mm Thick 406mm cover Brownbuilt profile (or equally approved) Chromadek Z200 spelter ISQ550 ArcelorMittal brand C3 medium corrosion risk, profiled steel roofing sheets in single lengths with Dark Dolphin colour finish on top side and standard Pebble Grey backing coat finish on reverse side, fixed to steel intermediate purlins at max 1800mm centres and eaves and ridge purlins at max 1500mm centres using Duplex clips fixed with 10No. 16 x 16mm long self drilling wafer head PH2 screws, No. 3 drill point fasteners, all in accordance with the manufacturers specifications and recommendations.</u>				
1	m ²	660		
2	m ²	114		
<u>'Global Roofing Solutions' 0.58mm Thick 406mm cover Brownbuilt profile (or equally approved) Chromadek Z200 spelter ISQ550 ArcelorMittal brand C3 medium corrosion risk, profiled steel roofing sheets in single lengths with Dark Dolphin colour finish on top side and standard Pebble Grey backing coat finish on reverse side, fixed to steel roof eaves truss framework using Duplex clips fixed with 10No. 16 x 16mm long self drilling wafer head PH2 screws, No. 3 drill point fasteners, all in accordance with the manufacturers specifications and recommendations.</u>				
3	m ²	60		
<u>'Global Roofing Solutions' 0.58mm Thick 406mm cover Brownbuilt profile (or equally approved) Chromadek Z200 spelter ISQ550 ArcelorMittal brand C3 medium corrosion risk, profiled steel vertical cladding roofing sheets in single lengths with Dark Dolphin colour finish on top side and standard Pebble Grey backing coat finish on reverse side, a 15mm gap to be provided between exterior brickwall and side cladding and cladding is fixed to the exterior brickwork wall with Hilti M8x80mm long "HUS3-H screw anchors – galvanized (or similar approved) with a minimum concrete / brickwork embedment depth of 60mm. Fixing bolts every 300mm in both directions. Off-set achieved with steel spacer plates or shims, all done in accordance with manufacturers specifications and recommendations.</u>				
4	m ²	46		
Carried to Collection			R	
Section No. 2				
Bill No. 5				
Roof Coverings				

	Unit	Quantity	Rate	Amount
<p><u>'Global Roofing Solutions' 0,58mm Thick to suit Brownbuilt profile (or equally approved) galvanised steel Z200 steel sheet accessories to preceding roof coverings roll-formed in continuous lengths with Chromadek Dark Dolphin colour one side and standard Pebble Grey backing coat to other side and fitted in strict accordance with manufacturers specifications and recommendations.</u></p>				
5	m	32		
6	m	41		
7	m	38		
8	m	24		
9	m	62		
10	m	71		
11	m	63		
12	m	13		
13	m	204		
14	m	43		
<p><u>ROOF AND WALL INSULATION</u></p>				
<p><u>'Isover' (or equally approved) 100mm Thick Factorylite non-combustible light weight fibreglass Glasswool thermal blanket roof insulation with reinforced foil facing (Code: 12089), nominal density 12kg/m3, R-value 2.56m2 K/W and a thermal conductivity of 0.039 W/m2/K.</u></p>				
15	m ²	774		
Carried to Collection				
Section No. 2			R	
Bill No. 5				
Roof Coverings				

SECTION NO. 2
BUILDING WORKS
BILL NO. 5
ROOF COVERINGS
COLLECTION

Brought Forward from Page

Page No

58

59

60

61

62

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 5
Roof Coverings

		Unit	Quantity	Rate	Amount
2	38 x 114mm Backing pieces fixed to purlins at approximately 1200mm centres with galvanised steel 'Trip-L-Grip' brackets to receive barge boards (elsewhere measured). (Provisional).	m	41		
3	38 x 114mm Backing piece fixed to end of rafters at approximately 1200mm centres with galvanised steel 'Trip-L-Grip' brackets to receive fascia boards (elsewhere measured).	m	38		
4	50 x 76mm Purlins.	m	238		
5	50 x 228mm Rafters.	m	164		
<u>Roof Sundries :</u>					
6	50 x 1.6mm 90 Degree Eco truss hanger bracket, bolted to wall with and including 2 x anchor bolts, to receive timber rafters (elsewhere measured).	No	54		
<u>EAVES, VERGES, ETC</u>					
<u>Fibre Cement medium density plain ungrooved fascias and barge boards:</u>					
7	10 x 225mm Plain fascia boards, including PVC H-profile jointing strips and corner jointers, twice screwed on with 12x40mm countersunk brass screws at 900mm centres.	m	38		
8	80 x 275mm Socketless barge board, butt jointed and with PVC H-profile joiners and corner jointers, twice screwed on.	m	41		
<u>SKIRTINGS</u>					
<u>'Supreme Mouldings' or equally approved :</u>					
9	21 x 150mm High ERP010-D profiled skirtings with Polmethyl Methacrylate wear layer, fixed to walls with approved adhesive, all in accordance with the manufacturers specifications and recommendations.	m	133		
<u>WROUGHT HARDWOOD DOORS, ETC.</u>					
All glazing is elsewhere measured.					
All doors are to be pre-treated with a linseed oil based transit stabilizing sealer.					
<u>'Swartland Cape Culture' (or equally approved) 10 Year Guarantee Hardwood Doors hung to timber frames:</u>					
10	44mm Type MDF Horizontal (MDFHRZH10) slatted heavy duty hardwood interior door, size 813 x 2032mm high. (See Architects Door Schedule - D 02).	No	3		
Carried to Collection					
Section No. 2					
Bill No. 6					
Carpentry And Joinery					
				R	

		Unit	Quantity	Rate	Amount
11	44mm Type MDF Horizontal (MDFHRZH10) slatted heavy duty hardwood interior door, size 913 x 2032mm high. (See Architects Door Schedule - D 03).	No	1		
12	44mm Type MDF Horizontal (MDFHRZH10) slatted heavy duty hardwood interior door, size 813 x 2032mm high with 180 x 880mm high framed opening viewing panel fitted with and including wrought timber glazing beads on both sides (glazing elsewhere measured). (See Architects Door Schedule - D 04).	No	2		
13	44mm Type SD30 Horizontal slatted hardwood double door in two equal leaves with rebated meeting stiles, fitted with composite gaskets to prevent drafts, size 1612 x 2032mm high with 180 x 880mm high framed opening viewing panels to each leaf, fitted with and including wrought timber glazing beads on both sides (glazing elsewhere measured). (See Architects Door Schedule - D 01).	No	5		
14	Extra over for 500 x 300mm high framed opening in slatted doors for aluminium louvre unit (louvre unit elsewhere measured). (Provisional).	No	6		
<u>FRAMED FRAMES ETC</u>					
All door frame profiles are to be manufactured according to SABS specification No. 1129 of 1977.					
All door frames are to be pre-treated with a linseed oil based transit stabilizing sealer.					
<u>'Swartland Cape Culture' (or equally approved) 10 Year Guarantee Hardwood timber door frames constructed from solid laminated wood and fitted with and including composite gaskets to prevent drafts :</u>					
15	SK1 86 x 76mm Heavy duty rebated door frame with 44mm rebate, size 923 x 2114mm high, plugged and screwed to wall.	No	5		
16	SK1 86 x 76mm Heavy duty rebated door frame with 44mm rebate, size 1023 x 2114mm high, plugged and screwed to wall.	No	1		
17	SK3 86 x 76mm Heavy duty rebated double door frame with 44mm rebate, size 1722 x 2114mm high, plugged and screwed to wall.	No	5		
<u>TIMBER STAGE FLOORS</u>					
The following in timber stage floors (Refer to Engineers Drawing Timber Stage - Layout and Details No D34435S-220-01 Rev B) :					
Carried to Collection					
Section No. 2					
Bill No. 6					
Carpentry And Joinery					
				R	

		Unit	Quantity	Rate	Amount
<u>Grade 5 SABS approved Structural laminated timber members in structural supporting joists :</u>					
18	75 x 110mm High laminated timber beams in lengths not exceeding 2,4m, twice holed and bolted to brickwall with M10 x 130mm long galvanised 'HUS3-H screw anchors at 300mm centres, embedded to a min depth of 55mm into brickwork, (bolts elsewhere measured).	m	13		
19	75 x 421mm High laminated timber beams in lengths not exceeding 2,4m, resting on concrete surface bed and fixed to concrete with and including 70 x 70 x 6mm galvanised mild steel angle cleat 60mm long at 250mm centres for full length of timber beams and cleats twice holed and bolted to concrete surface bed with M10 x 130mm long galvanised 'HUS3-H screw anchors (elsewhere measured) and bolted to timber beam with galvanised M10 (Grade 4.8) bolts (elsewhere measured).	m	36		
20	75 x 421mm High extreme profiled laminated timber beams cut to take shape of steps profile in lengths not exceeding 2,4m at steps, resting on concrete surface bed and fixed to concrete with and including 70 x 70 x 6mm galvanised mild steel angle cleat 60mm long at 250mm centres for full length of timber beams and cleats twice holed and bolted to concrete surface bed with M10 x 130mm long galvanised 'HUS3-H screw anchors (elsewhere measured) and bolted to timber beam with galvanised M10 (Grade 4.8) bolts (elsewhere measured).	m	1		
21	75 x 480mm High laminated timber beams in lengths not exceeding 2,4m at steps, resting on concrete surface bed and fixed to concrete with and including 70 x 70 x 6mm galvanised mild steel angle cleat 60mm long at 250mm centres for full length of timber beams and cleats twice holed and bolted to concrete surface bed with M10 x 130mm long galvanised 'HUS3-H screw anchors (elsewhere measured) and bolted to timber beam with galvanised M10 (Grade 4.8) bolts (elsewhere measured).	m	1		
<u>'Getzner' or equally approved Sylomer pads for vibration absorption :</u>					
22	40mm 'Getzner' or equally approved Sylomer pad layer for absorption of vibration, laid to top of timber beam joists to receive shutterboard (elsewhere) and floor boards (elsewhere) over, and fixed all together with stage flooring with and including suitable concealed nails as per manufacturers instructions and specifications, at equal recommended centres.	m ²	29		
Carried to Collection					
Section No. 2					
Bill No. 6					
Carpentry And Joinery					
				R	

		Unit	Quantity	Rate	Amount
<u>SABS approved shutterboard :</u>					
23	Stage deck flooring underlay of 19mm thick Shutterboard layer laid to top of Sylomer pads (elsewhere) on timber beams (elsewhere) and fixed all together with stage flooring with and including suitable concealed nails as per manufacturers instructions and specifications, at equal recommended centres.	m ²	29		
24	Stage deck flooring underlay of 19mm thick Shutterboard layer at steps laid horizontally in treads to top of timber profiled beam (elsewhere) and fixed all together with stage flooring with and including suitable concealed nails as per manufacturers instructions and specifications, at equal recommended centres.	m ²	1		
25	Stage deck flooring underlay of 19mm thick Shutterboard layer at steps laid vertically in risers to top of timber profiled beam (elsewhere) and fixed all together with stage flooring with and including suitable concealed nails as per manufacturers instructions and specifications, at equal recommended centres.	m ²	1		
<u>SABS approved tonque and groove Saligna wood flooring :</u>					
26	Stage deck flooring of 20 x 96mm thick tongue and groove Saligna wood flooring planks each 3075mm long, concealed fixed to timber beams (elsewhere) all together with underlay shutterboard (elsewhere) and sylomer pads (elsewhere) with and including suitable concealed nails at equal recommended centres, all in accordance with manufacturers instructions and specifications.	m ²	29		
27	Stage deck flooring of 20 x 96mm thick tongue and groove Saligna wood flooring planks to stage steps in treads, fixed as before.	m ²	1		
28	Stage deck flooring of 20 x 96mm thick tongue and groove Saligna wood flooring planks to stage steps in risers, fixed as before.	m ²	1		
29	20 x 96mm Thick tongue and groove Saligna wood flooring planks fixed vertically to front of stage 421mm high, concealed fixed to timber beams (elsewhere) with and including suitable concealed nails at equal recommended centres, all in accordance with manufacturers instructions and specifications.	m ²	5		
Carried to Collection					
Section No. 2					
Bill No. 6					
Carpentry And Joinery					
				R	

		Unit	Quantity	Rate	Amount
30	20 x 80mm Thick tongue and groove Saligna wood flooring plank cut to size and fitted horizontally along stage front edge surround and concealed fixed to shutterboard and stage flooring with and including suitable nails at equal recommended centres, all in accordance with manufacturers instructions and specifications.	m	13		
	<u>Galvanised bolts, anchors, etc.</u>				
31	M10 (Grade 4.8) galvanised bolts through timber.	No	155		
32	'Hilti' or equally approved M10 x 130mm long galvanised 'HUS3-H screw anchors' into brickwork.	No	86		
33	'Hilti' or equally approved M10 x 130mm long galvanised 'HUS3-H screw anchors' into concrete.	No	155		
	<u>BEADS, ARCHITRAVES, SILLS, ETC</u>				
	<u>Wrought meranti:</u>				
34	19mm Quadrant beads	m	121		
35	44 x 44mm Rebated, splayed and grooved weather boards, fixed to external doors, including grooves in doors.	m	5		
	<u>NOTICE BOARDS, PINNING BOARDS, WRITING BOARDS, KEYBOARDS, DUCKBOARDS, ETC</u>				
	<u>"Parrot", or similar approved bulletin boards with carpet and anodised aluminium frame.</u>				
36	Pinning/bulletin board size 1800 x 1200mm high plugged to walls. (Provisional).	No	3		
	<u>JOINERY FITTINGS, ETC.</u>				
	<u>General :</u>				
	The following joinery cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc.				
	The joinery fittings are deemed to include clear silicone sealant along all the edges between the tiles/wall and counter tops and around the edge of the sinks where applicable.				
	Carried to Collection				
	Section No. 2				
	Bill No. 6				
	Carpentry And Joinery				
				R	

	Unit	Quantity	Rate	Amount
<p>The references given in the descriptions are to the respective types of fittings detailed on the Architect's drawings as numbered and annexed to these Bills of Quantities for tender purposes.</p> <p><u>Kitchen Cupboards and Worktops, etc.</u></p> <p>Kitchen Cupboards Specifications:</p> <p>Kitchen Tops</p> <p>32mm Rustenburg Granite fixed with silicone and polished edges</p> <p>Faces of Cupboards & Drawers</p> <p>PG Bison or equally approved 16mm thick MelaWood® in Verzasca Oak™Linear™, manufactured in accordance with SANS 1763:1998, constructed using 1830mm wide BisonBord® boards in accordance with the approved shop drawings.</p> <ul style="list-style-type: none"> • 2mm Heavy duty impact edging <p>Carcasses</p> <p>PG Bison or equally approved 16mm thick MelaWood® in Folkstone Grey™Peen™, manufactured in accordance with SANS 1763:1998, constructed using 1830mm wide BisonBord® boards in accordance with the approved shop drawings.</p> <p>Kick Plate</p> <p>100x 20mm Meranti Kickplate with 1mm Brushed Stainless Steel 204 cover.</p> <p>Hinges</p> <p>GRASS® Nexis or equally approved Click-on 110° opening angle screw-in hinge in nickel plated (Item No: 146.322.53.0815) with 2D-cross mounting plate with 2 point fixing (Item No: 314.493.71.0215) and plain hinge cover cap, fixed with 3,5 x 15mm nickel plated chipboard screws including Soft Close closing mechanism (Item No: 924.200.40.0215).</p> <p>Drawer Runners</p> <p>500mm Heavy Duty bearing drawer runners with soft closers.</p> <p>Handles</p> <p>170mm Brushed Satin Nickel bar handles SKU#8373</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 6 Carpentry And Joinery</p>			R	

	Unit	Quantity	Rate	Amount
<u>Kitchen Cupboards, etc.</u>				
37	Kitchen Floor Cupboard Unit type complete at Surverey Hatch, size 1950 x 600 x 900mm high with six (6) equal size open shelves, with and including 32mm Granite worktop 900mm wide with overhang to hatch, cut out around brickwalls to form serverey hatch on same level, and 16mm melawood sides, bottom, division, shelf, back and dividing framework, etc,. Including all ironmongery, brackets, skirtings, blocking pieces, edging, etc. - All in accordance with the Architects Kitchen Joinery Schedule/Drawing No: A.02.1.	No	1	
38	Kitchen Floor Cupboard Unit type complete at Surverey Hatch, size 3370 x 600 x 900mm high with twelve (12) equal size open shelves, with and including 32mm Granite worktop 900mm wide with overhang to hatch, cut out around brickwalls to form serverey hatch on same level, and 16mm melawood sides, bottom, division, shelf, back and dividing framework, etc,. Including all ironmongery, brackets, skirtings, blocking pieces, edging, etc. - All in accordance with the Architects Kitchen Joinery Schedule/Drawing No: A.02.1.	No	1	
39	Kitchen Floor Cupboard Unit type complete, size 3000 x 600 x 900mm high with three (3) cupboard doors, one (1) trash drawer and four (4) drawers, with and including 32mm Granite worktop, with cut out in top for 1500 x 535mm wide double centre bowl drop on sink (sink elsewhere measured), and 16mm melawood sides, bottom, division, shelf, back and hinged doors, dividing framework, etc,. Including all ironmongery, brackets, runners, rails, skirtings, blocking pieces, edging, etc. - All in accordance with the Architects Kitchen Joinery Schedule/Drawing No: A.02.1.	No	1	
40	L-Shaped Kitchen Floor Cupboard Corner Unit type complete, size 3200 x 600 x 900mm high and 1350 x 600 x 900mm high respectively, with four (4) cupboard doors and two (2) sets of four (4) drawers (8 Drawers total), with and including 32mm Granite worktop and 16mm melawood sides, bottom, division, shelf, back and hinged doors, dividing framework, etc,. Including all ironmongery, brackets, runners, rails, skirtings, blocking pieces, edging, etc. - All in accordance with the Architects Kitchen Joinery Schedule/Drawing No: A.02.1.	No	1	
Carried to Collection				
Section No. 2				
Bill No. 6				
Carpentry And Joinery				
			R	

	Unit	Quantity	Rate	Amount
<u>Ablution Vanity Tops, etc.</u>				
41				
32mm 'Rustenburg' granite floating vanity top 600mm wide with polished edges, with and including 150mm downstand to front elevation, vanity supported on approved concealed steel support brackets at required centres, including cut outs for waste from lay-on basins and silicone sealer between vanity top and wall.	m	7		
<u>STORAGE SHELVING, ETC.</u>				
<u>Supply and fit wall mounted timber and steel shelving complete, consisting of 1820mm long wall bands (code WB1820) with standard epoxy powder coated finish fitted vertically at approximately 670mm centres, fitted as per manufacturers specifications, complete with heavy duty brackets (code WBR 300) for wood shelves and fit six (6) rows of 22mm thick x 380mm wide SAP Lamboard Laminated pine shelving with and including preparation and finish with two coats high quality polyurethane varnish, sanding lightly between coats and shelves screwed to brackets from below :</u>				
42				
Steel shelving with six rows of 22mm x 380mm wide laminated SAP timber board shelving on wall bands and brackets, approximately 1916mm high, including finish, fixed to walls. (Provisional).	m	14		
<u>FURNITURE AND FITTINGS, ETC. (PROVISIONAL)</u>				
<u>'Cecil Nurse' or equally approved Furniture & Fittings, etc.</u>				
43				
'La Mia' side chair without arms with upholstered seat, epoxy coated 'Grey' metal frame with matching injection moulded polypropylene seat & back (Code LM06GRCOM), with and including upholstered seat in 'Loomcraft' contract mega cloth (Code SPELNLL3168), chair size 520mm wide x 540mm deep x 810mm high. (Provisional).	No	300		
44				
'Breaking News' rectangular table/desk with 16mm Top including modesty panel (Code BN750BLKME), in colour 'Mondega Elm' with black painted legs, size 750mm wide x 500mm deep x 700mm high. (Provisional).	No	300		
45				
'Cube Quilted' double seater couch with 'Black Leather-Look' upholstery diamond double-needle stitching detail to seat and back, flanked by shelter-style arms that provide a comforting embrace, set on simple chrome metal T-legs (Code CBQ02BLK), size 1400mm wide x 700mm deep x 795mm high. (Provisional).	No	4		
Carried to Collection				
Section No. 2				
Bill No. 6				
Carpentry And Joinery				
			R	

SECTION NO. 2
BUILDING WORKS
BILL NO. 6
CARPENTRY AND JOINERY
COLLECTION

Brought Forward from Page

Page No

64
65
66
67
68
69
70
71
72

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 6
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 7</u> <u>CEILING PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>CEILING PARTITIONS AND ACCESS FLOORING</u></p> <p><u>Ceilings :</u> Unless otherwise described ceilings shall be deemed to be horizontal.</p> <p><u>Fixing :</u> Items described as nailed shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as plugged and screwed shall be deemed to include screwing to fibre, plastic or metal plugs at centres not exceeding 600mm, and where described as bolted the bolts have been given elsewhere.</p> <p><u>Steel components :</u> All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><u>Descriptions:</u> Boards must be stacked on a level surface in a dry place on a timber platform. Boards must be carried on edge.</p> <p>'Nutec' ceiling boards shall be secured to timber bracing with 32 x 2.5mm galvanized serrated nails at centres not exceeding 150mm.</p> <p>Skimming of plasterboard ceilings must be plastered the same day that the plasterboard has been erected.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 7 Ceilings Partitions And Access Flooring</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>Acoustic Ceiling System with Concealed Ceiling Grid :</u></p> <p><u>1 Layer Gyproc Acoustic Ceiling System (Boards) Gyptone. Rigitone® 8-15-20 Super (or equally approved) fixed to Gypframe./DONN ceiling grid using Gyproc Sharp-point Screws 25mm at maximum 150mm centres. Finish the joints and spot the screw heads using Rigitone® Vario Joint Filler. Gypframe./DONN T37K Main Tees (0.4mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200mm centres and Gypframe./DONN T32K Cross Tees at 300mm centres. Where required, install additional cross tees. Gypframe./DONN T37K Main Tees suspended using Gyproc Galvanised Steel Angle 25mm x 25mm at 1200mm centres. Gyproc RhinoArt Cornice (elsewhere measured).</u></p>				
2	Sloping ceilings suspended not exceeding 1m below steel purlins at 1400mm centres between rafter trusses at 6m centres.	m ²	147	
<p><u>1 Layer Gyproc Acoustic Ceiling System (Boards) Gyptone. BIG Line 6 (with Activ'Air®) fixed to Gypframe./DONN ceiling grid. Fix Gyptone. boards using Gyproc Sharp-point Screws 25mm at maximum 150mm centres. Apply Gyproc RhinoTape® to all joints. Jointed finish and covering of the screw heads is done using Gyproc RhinoGlide®. Ceiling grid consisting of Gypframe./DONN T37K Main Tees at 1200mm centres and Gypframe./DONN T32K Cross Tees at 600mm centres. Gypframe./DONN T37K Main Tees suspended using Gyproc Galvanised Steel Angle 25mm x 25mm at 1200mm centres. Fix galvanised steel angles to Gypframe./DONN T37K Main Tees using Gyproc Wafer Head Tek Screws 13mm. Gyproc RhinoArt Cornice (elsewhere measured).</u></p>				
3	Sloping ceilings in acoustic bulkheads suspended not exceeding 1m below steel purlins at 1400mm centres (trusses at 6m centres).	m ²	246	
4	Ceilings suspended not exceeding 1m below timber purlins at 1100mm centres (rafter trusses at 1m centres).	m ²	14	
Carried to Collection				
Section No. 2				
Bill No. 7				
Ceilings Partitions And Access Flooring				
			R	

	Unit	Quantity	Rate	Amount
<u>Exposed Ceiling System with Exposed Ceiling Grid :</u>				
<u>Lay Gyproc Gyprex® White 1200mm x 600mm ceiling tile into the Gypframe./DONN ceiling grid. Ceiling grid consisting of Gyproc/DONN Wall Angle (SM25/M6) fixed to the perimeter wall using fixings at 300mm centres. Space Gypframe./ DONN Main Tees T38 FR at 1200mm centres. Suspend main tees using Gyproc Pre-stretched Galvanised Hanger wire 2.5mm thick or Gyproc hanger strap 19mm at 1200mm centres. Gyproc Pre-stretched Galvanised Hanger wire shall be put through the main tees hole and would wind 3 times around itself. 2 steel pop-rivets or one Gyproc Wafer-head Tek screw 13mm shall be used to fix the hanger strap to the main tees web. Install Gypframe./DONN Cross Tees T38V/T32V (1200 long) at 600mm centres to create a 1200mm x 600mm ceiling grid. Main tee should be fixed to the wall using angle cleats.</u>				
5				
Ceilings suspended not exceeding 1m below timber purlins at 1100mm centres (rafter trusses at 1m centres).	m ²	88		
6				
Ceilings suspended not exceeding 1m below concrete soffits.	m ²	62		
<u>Cornices, perimeter trims, etc to suspended ceilings :</u>				
7				
Gyproc RhinoArt Cove fixed Gyproc RhinoBed® or Gyproc RhinoArt Cornice fixed using Gyproc RhinoArt adhesive, (or equally approved).	m	210		
8				
Type SM25 pre-painted recessed wall angles, plugged.	m	229		
<u>DRYWALL PARTITIONS</u>				
Partitions consisting of 146mm galvanised steel studs at 610mm centres as vertical support secured in matching galvanised steel floor and ceiling channels, clad on one or both sides as described, including additional studs as necessary at abutments, ends, etc. Board cladding shall be fixed and jointed in strict accordance with the manufacturer's instructions.				
Paint or varnish finishes are given separately.				
Carried to Collection				
Section No. 2				
Bill No. 7				
Ceilings Partitions And Access Flooring				
			R	

	Unit	Quantity	Rate	Amount
<p><u>'Gyproc' or equally approved Sound Resistant Wall System UltraSTEEL® Stud Drywall, consisting of stud and track system with 146 x 50mm (1 resilient bar) Gypframe™ Drywall UltraSTEEL® studs at recommended centres, friction fitted into head track and floor track with 102mm Isover Cavitybatt/Cavitylite (14kg/m³) insulation inserted into cavity of partitioning and clad on both sides with 12.5mm Gyproc Rhinoboard SoundBloc, with all external angles to have Gypframe™ Corner Beads attached and all joints to be covered with Gyproc RhinoTape®. Wall surface to be finished with minimum 3mm thick RhinoLite® Multipurpose, all in accordance with the manufacturer's recommendations.</u></p>				
9	m	60		
10	No	4		
11	No	16		
<p><u>TOILET CUBICLES AND PARTITIONS</u></p> <p><u>Supply and install Pelican Systems T1 Toilet Partition System (or equally approved) comprising of 16mm thick particle board panels, laminated both sides with Melawood or Formica (Colour to be later determined by Architect), edged all round with 22 x 22mm lipped channel and fixed into position by means of full height vertical aluminium receiving channels fixed to the abutting wall, floor or pilaster. Pilasters and end partitions are stabilized by a continuous 25 x 25mm aluminium transom section over doors and supplied with a complete set of standard ironmongery comprising of indicator bolts, hat and coat hooks, door stops, toilet roll holders and rubber buffers. Aluminium surrounds, receiving channels and transom sections shall be natural anodised. Note: Door hinges are to be falling butt hinges (Door to move to open position if left open).</u></p>				
12	No	2		
13	No	6		
14	No	4		
15	No	6		
Carried to Collection				
Section No. 2				
Bill No. 7				
Ceilings Partitions And Access Flooring				
			R	

		Unit	Quantity	Rate	Amount
16	Doors size 762 x 1762mm high, complete.	No	8		
	Carried to Collection				R
	Section No. 2				
	Bill No. 7				
	Ceilings Partitions And Access Flooring				

SECTION NO. 2
BUILDING WORKS
BILL NO. 7
CEILINGS PARTITIONS AND ACCESS FLOORING
COLLECTION

Brought Forward from Page

Page No

74

75

76

77

78

79

Amount

Carried To Section Summary

R

Section No. 2

Bill No. 7

Ceilings Partitions And Access Flooring

	Unit	Quantity	Rate	Amount
<p><u>Polyflor 3.7mm thick Silentflor PUR Heterogeneous vinyl floor sheeting with a 0.65mm clear wear layer colour Honey Oak (Colour code: 9959), (or equally approved), laid in an approved adhesive spread with a notched trowel on suitably prepared steel surfaces, with joints welded with a fully flexible coloured Polyflor welding rod to provide a smooth, hygienic sealed finish and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u></p>				
2	m ²	19		
<p><u>WALL LININGS, ETC</u></p>				
<p><u>Belgotex Conqueror (or equally approved) colour Sword, heavy residential (SABS location grade: 3) Stainproof Miracle Fibre (Polypropylene) 5mm thick, level-loop pile MiracleBac® woven polypropylene backed SABS Class 2 fire rating broadloom carpet sheeting laid on and including Orange undercushion, with approved adhesive, all in accordance with the manufacturers recommendations.</u></p>				
3	m ²	138		
4	m	33		
<p><u>EDGE TRIMS, NOSINGS, JOINT COVERS, ETC</u></p>				
<p><u>Stainless steel edge trims, nosings, etc</u></p>				
5	m	47		
<p><u>'Polyflor' or equally approved structural movement joints and covers:</u></p>				
6	m	147		
<p><u>POLISH, SEALERS, ETC</u></p>				
<p><u>Polish, sealers, etc :</u></p>				
7	m ²	583		
Carried to Collection				
Section No. 2				
Bill No. 8				
Floor Coverings, Wall Linings, Etc				
			R	

	Unit	Quantity	Rate	Amount
<u>MATS (PROVISIONAL)</u>				
<u>'Mat-lok Aluguard' or equally approved single sided barrier mat :</u>				
8				
Door mat size 1800 x 1200 x 12mm gauge, heel-proof, closed construction barrier mat consisting of electrostatic, buffed-nylon tyre-rubber strips, inserted and fixed into modular natural anodised aluminium scraper sections, fixed with nail-in-anchors in sunken AMF31/31 aluminium mat surround (elsewhere measured). (Provisional)				
	No	1		
<u>'Decramat' or equally approved Mat-well Frame :</u>				
9				
Mat surround size 1800 x 1200mm formed of natural anodised aluminium pre-formed matwell frame AMF31/31, complete with mitred edges and corner connectors, bedded into screed. (Provisional)				
	No	1		
Carried to Collection				
Section No. 2				
Bill No. 8				
Floor Coverings, Wall Linings, Etc				
			R	

SECTION NO. 2

BUILDING WORKS

BILL NO. 8

FLOOR COVERINGS, WALL LININGS, ETC

COLLECTION

Brought Forward from Page

Page No

81

82

83

Amount

Carried To Section Summary

R

Section No. 2

Bill No. 8

Floor Coverings, Wall Linings, Etc

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 9</u>				
<u>IRONMONGERY</u>				
<u>PREAMBLES</u>				
For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.				
<u>SUPPLEMENTARY PREAMBLES</u>				
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.				
<u>Finishes to ironmongery:</u>				
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.				
<u>Fixing:</u>				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs in brickwork or concrete.				
<u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC</u>				
<u>Approved hinges, floor springs, bolts, panic bolts, etc.:</u>				
1		2040 200mm Aluminium sinkless hinge, centre pin, Anodised.	No	6
2		DBB-SS-009 102x75x3mm Stainless steel two ball bearing butt hinge.	Pairs	24
3		DFB-SC-180 Satin chrome 153mm manual flush bolt with heel.	No	10
4		DPS-SS-032 Stainless steel dust proof strike.	No	5
5		PHA2 S SD Two point locking panic bar - Single door - Door leaf 1000mm wide x 2270mm high (2201.2104.PHX02.PHX04).	Sets	3
		Carried to Collection		
		Section No. 2		
		Bill No. 9		
		Ironmongery		
			R	

	Unit	Quantity	Rate	Amount
<u>LOCKS</u>				
<u>Approved locks, locksets, etc. :</u>				
6	No	3		
'Yale' or equally approved 51mm 'All Weather' 5 pin plastic covered external padlock and 3 keys.				
7	Pairs	4		
DCE-002 S.S Stainless steel round cylinder escutcheon.				
8	No	5		
D038R NP Nickel plated rebate conversion kit for Euro profile locks D036S, D037D				
9	No	3		
DSC104301 MK (43mm) Satin Nickel 43mm Five pin Euro-profile Single cylinder, Master Keyed.				
10	No	2		
DDC106601 MK (66mm) Satin Nickel 66mm Five pin Euro-profile Double cylinder, Master Keyed.				
11	No	4		
DKC106601 MK (66mm) Satin Nickel 66mm Five pin Euro-profile knob cylinder, Master Keyed.				
12	No	5		
D036S SS Stainless steel Cylinder sash lock, case dimensions 116.5mm high x 78mm deep, with forend dimensions 168mm high x 22mm wide and backset 57mm. Centres 61mm.				
13	No	3		
D037D SS Stainless steel Cylinder deadlock, case dimensions 116.5mm high x 78mm deep, with forend dimensions 168mm high x 22mm wide and backset 57mm.				
14	No	1		
DMWC-SS-008 Stainless steel bathroom deadlock, case dimensions 38mm high x 76mm deep, with forend dimensions 78mm high x 22.5mm wide and backset 55mm.				
15	Sets	8		
DWC-005 Stainless steel bathroom WC indicator (Red & White) and turn knob.				
16	Sets	1		
DWC-006 Stainless steel disabled WC indicator (Red & White) and turn knob for physically impaired.				
17	No	1		
PHT3901 Satin Nickel Exterior access lock with lever handle (Cylinder not included).				
<u>CATCHES, CABIN HOOKS, ETC</u>				
<u>Catches, cabin hooks, etc</u>				
18	No	7		
200mm 166 SC on brass cabin hook and eye, fixed to and including 100 x 100 x 75mm thick meranti block with chamfered edges, finished with and including clear varnish and twice bolted to wall with and including 6 x 80mm Rawlbolts.				
Carried to Collection			R	
Section No. 2				
Bill No. 9				
Ironmongery				

	Unit	Quantity	Rate	Amount
<u>HANDLES, FLUSH PULLS, ETC</u>				
<u>Handles, flush pulls, etc :</u>				
19	TH120 Latch S.S Stainless steel lever handle set on rose - Latch	Sets	1	
20	Ref TH120 Cyl S.S Stainless steel lever handle set on rose with cylinder escutcheons	Sets	4	
21	DPH301B Stainless steel 325x25mm Straight tubular pull handle flange fixing.	No	2	
22	DPH210 BTB Stainless steel 300x30mm Straight tubular pull handle BTB (BTB fixing sets included).	Pairs	2	
23	DPH206 BTB Stainless steel 400x30mm Offset tubular pull handle BTB (BTB fixing sets included)(Pull handle complies with BS 8424.Grade 3 - Heavy Duty).	Pairs	6	
<u>PUSH PLATES AND KICKING PLATES</u>				
<u>Push plates and kick plates :</u>				
24	DPP-430-BL-SF 150x300 - Grade 430 Brushed stainless steel blank push plate size 150mm x 300mm x 1,2mm thick, drilled and countersunk for stainless steel screw fixing to doors.	No	2	
25	DKP-430-SF 200 - Grade 430 Brushed stainless steel kick plate 200mm x 813mm x 1,2mm thick, finished size to be checked on site, drilled and countersunk for stainless steel screw fixing to doors.	No	4	
<u>DOOR CLOSERS</u>				
<u>Approved door closers:</u>				
26	TS90-SL - EN 3/4 Cam action slide channel NON HOLD OPEN door closer, hydraulic speed control, Pull side - leaf or transom fixing; Push side - leaf or transom fixing, EN3 850-950, EN4 950-1100. Colour Silver.	No	2	
27	TS73V PA DC-PAB-SL EN2-4 parallel arm DELAYED ACTION door closer, push side fitting (parallel arm bracket included) EN2 750-850, EN3 850-950, EN4 950-1100, colour silver.	No	1	
28	TS91B HO-SL MECHANICAL HOLD OPEN Cam action slide channel door closer, Max door width 950mm, Closing Force EN 3, hydraulic speed control, Pull-side door leaf fixing (Standard), Push side transom fixing. Door closer compliant with EN 1154. Door closer is CERTI FIRE approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240, Certified manufacturer to ISO 9001. Colour Silver.	No	4	
Carried to Collection			R	
Section No. 2				
Bill No. 9				
Ironmongery				

	Unit	Quantity	Rate	Amount
29 TS83 PA with Parallel arm bracket - EN 3-6 Parallel Arm NON HOLD OPEN door closer, adjustable strength, hydraulic speed control, Push side fixing (Parallel arm bracket included) EN3 850-950, EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door closer tested to EN 1154. Approved to AS1905 Part 1 Fire Resistant doors, Certified manufacturer to ISO 9001. Colour Silver.	No	1		
<u>LETTERS, NAMEPLATES, ETC.</u>				
<u>Door Signage:</u>				
30 DSS-130M "MALE" stainless steel information sign size 150x150mm, fixed to doors with stainless steel self tapping screws.	No	1		
31 DSS-131F "FEMALE" stainless steel information sign size 150x150mm, fixed to doors with stainless steel self tapping screws.	No	1		
32 DSS-133P "DISABLED PERSONS" stainless steel information sign size 150x150mm, fixed to doors with stainless steel self tapping screws.	No	1		
<u>PHOTOLUMINESCENT SIGNS</u>				
<u>SABS approved wall mounted / Ceiling mounted emergency photoluminescent statutory fire signs to SANS 1186, size 290 x 290mm, Framed and Single Sided :</u>				
33 290 x 290mm 'NO SMOKING' natural anodised sign with one pictogram fixed to wall.	No	2		
34 290 x 290mm 'FIRE BLANKET' photo luminescent sign, with one pictogram, single sided, framed and wall mounted.	No	1		
35 290 x 290mm 'EXIT' photo luminescent sign, with one pictogram, single sided, framed and wall mounted.	No	4		
36 380 x 290mm 'FIRE EXIT - KEEP CLEAR' photo luminescent sign, with one pictogram, single sided, framed and wall mounted.	No	4		
37 580 x 290mm 'RUNNING MAN & DOWNWARD ARROW' photo luminescent sign, with two pictograms, single sided, framed and wall mounted.	No	2		
38 580 x 290mm 'RUNNING MAN & SIDEWARD ARROW LEFT' photo luminescent sign, with two pictograms, single sided, framed and wall mounted.	No	2		
Carried to Collection				
Section No. 2			R	
Bill No. 9				
Ironmongery				

		Unit	Quantity	Rate	Amount
39	580 x 290mm 'RUNNING MAN & SIDEWARD ARROW RIGHT' photo luminescent sign, with two pictograms, single sided, framed and wall mounted.	No	2		
40	580 x 290mm 'FIRE EXTINGUISHER & DOWNWARD ARROW' photo luminescent sign, with two pictograms, single sided, framed and wall mounted.	No	2		
41	870 x 290mm 'FIRE HOSE REEL, EXTINGUISHER & DOWNWARD ARROW' photo luminescent sign, with three pictograms, single sided, framed and wall mounted.	No	2		
42	190 x 190mm 'ELECTRIC SHOCK HAZARD (EL1)' brushed stainless steel sign, with one pictogram, single sided, mounted to wall above DB board and other electrical hazards.	No	1		
	<u>Signarama or equally approved ceiling mounted suspended double sided signs with curv display, finished in silver anodised aluminium with convex frame, silver anodised aluminium end caps and clear non glare lens, supplied and installed to manufacturers specifications and instructions.</u>				
43	1000 x 200mm High 'RESTROOMS' Sign with three pictograms (Male, Female & Disabled)	No	1		
44	1000 x 200mm High 'KITCHEN' Sign with one pictogram (Knife, Fork & Spoon)	No	1		
	<u>BATHROOM FITTINGS</u>				
	<u>Bathroom Fittings:</u>				
45	'Kimberly Clarke' or equally approved Professional type MR2 surface mounted Satin finish stainless steel toilet tissue dispenser, White (Code: SA426130), overall size 130 x 135 x 256mm high, installed by manufacturers installation team, complete.	No	9		
46	'Kimberly Clarke' or equally approved Professional Aqua hand cleanser dispenser, stainless steel (Code:6983000), overall size 150 x 130 x 250mm high, installed by manufacturers installation team, complete.	No	8		
47	'Kimberly Clarke' or equally approved Professional 'Reflex' Hands Free rolled towel dispenser, stainless steel (Code: SA426125), overall size 315 x 260 x 365mm high, installed by manufacturers installation team, complete.	No	5		
	Carried to Collection				
	Section No. 2				
	Bill No. 9				
	Ironmongery				
				R	

	Unit	Quantity	Rate	Amount
48 'Kimberly Clarke' or equally approved Disposer wall mounted general waste bin, stainless steel (code: SA426135), overall size 345 x 290 x 390mm high, installed as per manufacturer, complete.	No	5		
49 Sanitary wall bin small (code: DIS-BINNS-051), plugged and screwed to wall with stainless steel screws, as per manufacturer, complete.	No	6		
50 Chrome plated toilet brush set (code: AC-0913-100) size 155 x 120 x 375mm high, plugged.	No	9		
<u>Grab Rails:</u>				
51 'Franke' CNTX700A or equally approved 32mm Diameter satin finished Grade 304 stainless steel angle bar (Code: 359877), size 618 x 95 x 256mm with Franke fine grip surface, plugged and screwed to walls with stainless steel screws.	No	1		
52 'Franke' CNTXBR or equally approved 32mm Diameter satin finished Grade 304 stainless steel cistern back rail (Code: 359912), size 750 x 260mm with Franke fine grip surface, plugged and screwed to walls with stainless steel screws.	No	1		
<u>SUNDRIES</u>				
<u>Approved door stops, coat hooks, etc. :</u>				
53 DDS-SS-017 Stainless steel floor mounted door stop plugged.	No	8		
54 DDS-SS-021 Stainless steel floor mounted door stop plugged.	No	1		
<u>VENETIAN BLINDS (PROVISIONAL)</u>				
<u>Supply and fit aluminium venetian blind, colour to Principal Agent later specification, with 16 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 lintol:</u>				
55 Venetian blinds to suit window opening size 1600 x 450mm high. (W3)	No	1		
56 Venetian blinds to suit window opening size 2400 x 450mm high. (W2)	No	2		
57 Venetian blinds to suit window opening size 800 x 1600mm high. (W3)	No	1		
Carried to Collection			R	
Section No. 2				
Bill No. 9				
Ironmongery				

SECTION NO. 2
BUILDING WORKS
BILL NO. 9
IRONMONGERY
COLLECTION

Brought Forward from Page

Page No

85
86
87
88
89
90

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 9
Ironmongery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 10</u> <u>STRUCTURAL STEELWORK</u></p>				
<p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
<p><u>Descriptions</u> 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 columns and beams shall be deemed to include flat section base, top, bearer and connection plates Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete NOTE: All structural steelwork to be fabricated and erected in accordance with SABS 0162 - 1984 and SABS 1200H - 1983. Dimensions and levels to be verified on site prior to manufacture. Any discrepancies found during site measure to be reported to and resolved by the Engineer prior to manufacture. All structural steel elements must be inspected by the Engineer prior to transporting to site. All bolts must be galvanised grade 8.8 unless otherwise specified by the Engineer. Bolts shall not have threads within the shear planes. All holes to be drilled at standard backmark. Baseplates to be properly grouted up and painted prior to backfilling being done. All box or circular section ends to be closed with 14mm plates. Where packer plates are used, longer bolts must be used to ensure that sufficient length of thread is taken up by the nuts.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Structural Steelwork</p>			R	

	Unit	Quantity	Rate	Amount
<p>All welds to be 6mm continuous fillet or the weld throat thickness to be the thickness of the thinnest of the two parent metals. All structural steel members to be of grade 350W. Purlins and girts to be pre-galvanised.</p> <p>All structural steelwork inclusive of bolts, nuts, washers, plates, connections, etc., other than purlins & girts to be hot dipped galvanised in accordance with SANS 121 or ISO 1461 All hot dipped members to be drilled, cut, welded, etc., prior to galvanising. Prices to include for preparation of shop drawings for approval of the Engineer prior to manufacture. A minimum of 7 days must be allowed for checking of shop drawings. Only structural sizes, connections and splices will be checked. Final dimensions and fitting of members shall remain the contractors responsibility. Prices to include for fabrication, cutting, drilling, bending, welding, etc., delivery to site, and hoisting up and erecting into position. The contractor is responsible for stabilising the structure and maintaining it in the correct position during erection.</p> <p>All purlins and girt cleat holes are to be 14mm Dia for M12 black bolts of grade 4.8. Fixing holes are to be on purlins. All purlin splices are to be fixed staggered and purlins are to be continuous over at least two spans. Purlins are to be fixed to cleats with two bolts at continuous connection and two bolts at purlin or cleat end.</p> <p>Note: The following restrictions are applicable on ground floor slab during construction and erection of structural steel. 0-7 days: Concrete curing; no loading on ground floor slab permitted. 7-14 days: Light foot traffic permitted. 14-28 days: Light vehicles<5 ton.28+ days: Maximum gross crane load during construction = 25 ton (excludes lifting load). Crane outrigger base footings to be on double cross layer of 50 x 228mm timber spreader supports over and area of 1,00 x 1,00m or similar approved by the Engineer to avert damage to concrete ground floor slab. Only tyre cranes permitted on</p> <p>Structural steelwork shall be completed by the Manufacturer - cleaned, hot-dipped galvanised in workshop before transportation to site.</p> <p>Structural steelwork shall be completed by the Manufacturer - cleaned and painted with specified primer in workshop before transportation to site ONLY if specified in the Engineering Structural Steel drawings.</p> <p><u>STRUCTURAL STEELWORK</u></p> <p>The following structural steelwork to roofs must be read in conjunction with Engineers Steel Roof Layout Drawing No D34435S-210-01 Rev A and Steel Roof Sections and Details Drawing D34435S-211-01 Rev A.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Structural Steelwork</p>			R	

	Unit	Quantity	Rate	Amount
<u>GALVANISED STEEL COLUMNS AND BEAMS</u>				
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete :</u>				
1				
203 x 203mm x 46kg/m H-section columns including 315 x 240 x 20mm thick base plate with 4 No holes for M16 holding down anchor bolts, column fully welded to rafter and including 10mm stiffener plates to both sides of columns. (12 No Columns).	Tonnes	0.62		
2				
70 x 70 x 6mm Equal angle cleats back to back 115mm long, fully welded to steel rafter columns, to receive CFLC eaves truss chord plate (elsewhere), 4 times holed to receive M12 bolts (elsewhere measured).	Kg	37		
<u>Welded beams in single lengths with flat bearer and connection plates, bolted to steel :</u>				
3				
356 x 171mm x 45kg/m I-section roof beams/rafters fully welded to H columns (elsewhere) one side and connected at apex to other rafter with and including connection plates size 707 x 190 x 20mm thick eight times holes, including haunch's at apex and at column connection cut from 356 x 171mm x 45kg/m I-Section beam rafter and stiffeners. (24 No Rafters).	Tonnes	6.48		
4				
70 x 70 x 6mm Equal angle cleats back to back 165mm long, fully welded to steel rafter beams to receive CFLC purlins (elsewhere), 4 times holed to receive M12 bolts (elsewhere measured).	Kg	208		
<u>GALVANISED STEEL TRUSSES</u>				
<u>Welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted and welded to steel :</u>				
5				
Lattice eaves trusses in sections spanning between steel rafters and bolted together at rafters/columns, each eaves truss approximately 6000mm long x 730mm high extreme, with each eaves truss consisting of 125 x 75 x 20 x 3mm Cold Formed Lipped Channels (CFLC) top chord, bottom chord, vertical bracing and diagonal bracing, with all bracing members fully welded to top and bottom chords. Trusses to be constructed using ungalvanised CFLC members and then all complete trusses to be hot dipped galvanised after fabrication. (10 No Eaves Trusses). See Engineers Steel Roof Drawing for Sections & Details - D34435S-211-01 Rev A).	Tonnes	1.64		
Carried to Collection				
Section No. 2				
Bill No. 10				
Structural Steelwork				
			R	

		Unit	Quantity	Rate	Amount
6	67.5 x 125 x 6mm Thick plate fully welded to steel eaves truss top and bottom chords where two trusses meet for fixing to back to back angles on columns (elsewhere), 4 times holed to receive M12 bolts (elsewhere measured).	Kg	14		
7	140 x 125 x 6mm Thick plate fully welded to steel eaves truss top and bottom chords on end trusses for fixing to back to back angles on columns (elsewhere), 4 times holed to receive M12 bolts (elsewhere measured).	Kg	7		
8	125 x 75 x 4mm Thick closure plate fully welded to steel eaves truss top and bottom chords on end trusses.	Kg	3		
<u>GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC</u>					
<u>Purlins and girts, bolted to steel</u>					
9	175 x 75 x 20 x 2,5mm Thick Cold-Formed Lipped Channels (CFLC) in purlins bolted to steel rafter beams at approximately 1385mm centres, continuous over 2 bays and staggered, fixed to steel rafters with 70 x 70 x 6mm back to back angle cleats 165mm long (elsewhere measured).	Tonnes	3.46		
<u>Welded bracing, anti-sag rails, etc with flat connection/gusset plates, etc, bolted to steel</u>					
10	50 x 50 x 3mm Thick Equal Angle sag bars, fixed to purlins each end with and including 50 x 50 x 3mm angle 145mm long welded to both ends of sag bar in vertical direction, twice holed for M12 bolts (elsewhere measured).	Tonnes	0.29		
11	50 x 50 x 3mm Thick Equal Angle diagonal sag bars, fixed to purlins and rafter beams each end with and including 50 x 50 x 3mm angle 145mm long welded to both ends of sag bar in vertical direction, twice holed for M12 bolts (elsewhere measured).	Tonnes	0.17		
12	70 x 70 x 6mm Thick Equal Angle cross bracing, fixed to gusset plates (elsewhere measured) on rafter beams and angles twice holed at connections to receive 2 M16 bolts (elsewhere measured) at each end.	Tonnes	0.42		
13	230 x 300 x 8mm Thick Gusset plate fully welded to bottom of top flange of steel rafter beams to receive cross bracing (elsewhere) and plates 4 times holed to receive M16 bolts (elsewhere measured).	Kg	61		
Carried to Collection					
Section No. 2					
Bill No. 10					
Structural Steelwork					
				R	

SECTION NO. 2
BUILDING WORKS
BILL NO. 10
STRUCTURAL STEELWORK
COLLECTION

Brought Forward from Page

Page No

92

93

94

95

96

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 10
Structural Steelwork

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 11</u> <u>METALWORK</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Descriptions:</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described. Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> <p><u>Note :</u> Also refer to Supplementary Preambles under Structural Steelwork Bill for clauses relevant to structural metalwork, such as steel stairs, under these bills of quantities.</p>				
<p>Section No. 2 Bill No. 11 Metalwork</p>			<p style="text-align: right;">Carried to Collection</p>	<p style="text-align: right;">R</p>

	Unit	Quantity	Rate	Amount
<u>GALVANISED STEEL STAIRS</u>				
<u>The following in 2 No galvanised welded single flight stairs with landing, excluding balustrades, each stair size 5957 x 1700mm on plan x 3000mm high overall, bolted to concrete surface bed at bottom end and downstand concrete beam top end with stringer on one side bolted to brickwall. Balustrading is elsewhere measured. (See Engineers Steel Stairs Drawing for Layout & Details - D34435S-210-03 Rev A)</u>				
1	80 x 80 x 4mm Galvanised SHS column posts 1490mm high overall, including 210 x 100 x 10mm thick galvanised base plate with 2 No holes for M16 chemical anchor holding down bolts (elsewhere measured) and twice holed at top to receive two M16 bolts (elsewhere measured).	No	2	
2	250 x 100 x 4mm Thick Galvanised RHS stringers to both sides of staircases.	Kg	603	
3	40 x 40 x 4mm Thick Galvanised equal leg supporting angles fully welded to stringers in treads and risers, to receive 'Vastrap' plate (elsewhere measured).	Kg	247	
4	40 x 40 x 4mm Thick Galvanised equal leg supporting angles approximately 440mm long, fully welded to stringers at landings, to receive 'Vastrap' plate (elsewhere measured).	Kg	13	
5	60 x 60 x 6mm Thick Galvanised equal leg angles 140mm long fully welded to stringer at landings one side and other side twice holed to receive 80x80x4mm SHS column (elsewhere measured).	No	2	
6	65 x 50 x 6mm Thick Galvanised unequal leg angle 400mm long fully welded to stringer one side and other side three times holed to receive chemical anchors to brickwork (anchors elsewhere measured).	No	6	
7	1700 x 262 x 12mm Thick Galvanised mild steel baseplate fully welded to stringers at ends and 7 times holed to receive M16 chemical anchoring rods for fixing to concrete beam at 1st floor slab (chemical anchor rods elsewhere measured) and exposed end of rods to be grinded flush with baseplate and welded all around.	No	2	
8	1700 x 455 x 10mm Thick Galvanised mild steel baseplate fully welded to stringers at bottom ends and 5 times holed to receive M16 chemical anchor bolts for fixing to concrete surface bed (chemical anchor bolts elsewhere measured).	No	2	
Carried to Collection				
Section No. 2				
Bill No. 11				
Metalwork				
			R	

		Unit	Quantity	Rate	Amount
9	4,5mm Thick 'Vastrap' mild steel chequer plate welded horizontally to supporting angles, both sides, (angles elsewhere measured) for continuous stair treads, with ribs on plate facing downwards.	m ²	14		
10	4,5mm Thick 'Vastrap' mild steel chequer plate welded vertically to supporting angles, both sides, (angles elsewhere measured) for continuous stair risers, with ribs on plate facing downwards.	m ²	11		
11	4,5mm Thick 'Vastrap' mild steel chequer plate welded to supporting angles, both sides, (angles elsewhere measured) on continuous stair landings, with ribs on plate facing downwards.	m ²	5		
12	M16 Galvanised Grade 8.8 bolts.	No	4		
13	M16 Galvanised chemical anchor bolt into brickwork.	No	18		
14	M16 Galvanised chemical anchor bolt 130mm long into concrete.	No	14		
15	M16 Galvanised chemical anchor rods 160mm long into concrete and exposed end grinded flush.	No	14		
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>					
<u>Welded galvanised steel hinged pedestrian gate to brickwork :</u>					
16	Single hinged pedestrian gate to service ducts to match double sliding gate detail, complete in single leaf, to suit opening size 870 x 2100mm high overall, consisting of 60 x 60 x 4mm SHS frame and 60 x 60 x 4mm SHS middle rail, with 30 x 30 x 3mm equal angles fully welded vertically to SHS framework to support fibre cement fascade infill, gate filled in with 'Everite Nutec Vermont' or equally approved external building planks size 770 x 150 x 9mm thick in cladding panels with a minimum gap of 30mm fixed to steel framing at 600mm centres using exposed 8 x 35mm self tapping galvanised screws and gate fitted with and including a suitable locking mechanism to lock gate in closed position, two galvanised gate hinges each 2 times holed for bolting to brickwork with M12 chemical anchors (elsewhere measured).	No	2		
Carried to Collection					
Section No. 2					
Bill No. 11					
Metalwork					
				R	

		Unit	Quantity	Rate	Amount
<u>Welded galvanised steel sliding gate and fixed screen to brickwork and concrete :</u>					
17	120 x 120 x 8mm Galvanised mild steel equal angle track 5100mm long with 20 x 5mm thick steel fishtale lugs welded to both sides of track at 250mm centres and track cast into reinforced concrete surface bed with angle iron corner projecting 65mm high. - (See Engineers Steel Sliding Gate Drawing for Layout & Details - D34435S-210-02 Rev A).	No	1		
18	Double sliding gate complete in two equal leaves, with one sliding leaf and one fixed leaf, to suit opening size 5722 x 2100mm high overall, with each leaf size 2880 x 2100mm high and consisting of 60 x 60 x 4mm SHS frame and 60 x 60 x 4mm SHS middle column, with 30 x 30 x 3mm equal angles fully welded vertically to SHS framework to support fibre cement fascade infill. Both leaves filled in with 'Everite Nutec Vermont' or equally approved external building planks size 1340 x 150 x 9mm thick in cladding panels with a minimum gap of 30mm fixed to steel framing at 600mm centres using exposed 8 x 35mm self tapping galvanised screws and gate fitted with and including a set of galvanised U-profile sliding gate wheels (200kg min safe working load rating) to sliding leaf as well as set of 2 rubber roller guides welded to top of fixed frame, with and including suitable locking mechanism to sliding leaf to lock gate in closed position, including 2 No baseplates size 170 x 115 x 12mm thick fully welded to base of columns of fixed panel and 4 times holed and bolted to surface bed with M12 chemical anchors (elsewhere measured), including 15mm non-shrink grout under base plate, all in accordance with Engineers Sliding Gate Detail. - (See Engineers Steel Sliding Gate Drawing for Layout & Details - D34435S-210-02 Rev A).	No	1		
19	M12 Galvanised chemical anchor bolt 180mm long into concrete or brickwork.	No	16		
<u>GLAZED STAINLESS STEEL BALUSTRADING</u>					
<u>316 Brushed stainless steel and glass balustrading to concrete balconies and steel staircases :</u>					
20	Horizontal balustrading 1000mm high of 50mm diameter stainless steel round tube continuous top rails, 38mm diameter stainless steel round tube posts with base plates at equal centres fixed with and including bolts to concrete with stainless steel washer to cover holes in baseplates, filled in between posts with 8mm toughened safety glass fixed with four stainless steel glass clamps, all as per Architects Balustrade Detail attached.	m	52		
Carried to Collection				R	
Section No. 2					
Bill No. 11					
Metalwork					

		Unit	Quantity	Rate	Amount
21	Raking balustrading 1000mm high to steel staircases of 50mm diameter stainless steel round tube continuous top rails, 38mm diameter stainless steel round tube posts with base plates at equal centres fixed with and including bolts to steel stairs with stainless steel washer to cover holes in baseplates, filled in between posts with 8mm toughened safety glass fixed with four stainless steel glass clamps, all as per Architects Balustrade Detail attached.	m	12		
22	Extra over for L- intersection of horizontal balustrades.	No	8		
23	Extra over for ends.	No	10		
24	Extra over for ramped junction of end of horizontal with end of raking balustrading.	No	4		
	<u>NATURAL ANODISED ALUMINIUM LOUVRE DOOR GRILLE</u>				
	<u>'Europair' or equally approved door grille louvre units with telescopic backframe extruded type 50S anodised grade aluminium with fixed horizontal chevron louvres fitted to openings in doors (openings elsewhere measured):</u>				
25	Door grille size 500 x 300mm high overall to fit opening size 500 x 300mm high, fixed to door with s/s screws punched and counter-sunk and sealed. (Provisional).	No	6		
	<u>ALUMINIUM ROLLER SHUTTERS ETC</u>				
	<u>'Xpanda' or equally approved aluminium push pull roller shutter in powder coated 'Charcoal Grey' colour finish, with 450mm headroom with 130mm clearance on free side and 130mm clearance on operator side, 50mm wide extruded slats, 75mm wide side guides, Rol-Lok, with pressed steel canopy cover and weather strip T-bar to bottom edge, with perimeter framing plugged and screwed to reveals at maximum 300mm centres to concrete or brickwork.</u>				
26	Manual push-up slatted roller shutter for 1600 x 1200mm high opening. (See Architects Door Schedule - D 06).	No	1		
27	Manual push-up slatted roller shutter for 2700 x 1200mm high opening. (See Architects Door Schedule - D 07).	No	1		
28	Manual push-up slatted roller shutter for 2440 x 2100mm high opening. (See Architects Door Schedule - D 08).	No	4		
	Carried to Collection				
	Section No. 2				
	Bill No. 11				
	Metalwork				
				R	

	Unit	Quantity	Rate	Amount
<p><u>ALUMINIUM WINDOWS.</u></p> <p>Aluminium windows, etc., are to be constructed and installed in accordance with the guidelines of The Association of Architectural Aluminium Manufactures of South Africa (AAAMSA). These frames cannot be built in and openings must be prepared by the Contractor for the aluminium frame to be fixed into, where after the plaster can be finished up against the frame. All dimensions to be checked and verified on site prior to manufacture.</p> <p>Unless otherwise stated ironmongery is to be the manufacturer's standard corrosion resistant ironmongery for the particular product range.</p> <p>Glazing is to be carried out in strict accordance with the SANS 0137/2000 Code of Practice: "The Installation of Glazing in Buildings" and where required, safety glazing materials must conform to SANS 1263.</p> <p>All opening sashes must be weather and draught proofed using wool pile, vinyl, etc. seals and the perimeter frames sealed to the structure using manufacturer approved sealants.</p> <p>All aluminium is to be protected after manufacture by removable PVC tape or other approved application. The protection is to be removed only when authorised by the Architect.</p> <p>Any component damaged in any way prior to the completion of the building is to be replaced with new. 'Touching up' of decorative finishes will not be permitted.</p>				
<p>Section No. 2 Bill No. 11 Metalwork</p>	<p>Carried to Collection</p>		<p>R</p>	

	Unit	Quantity	Rate	Amount
30 Aluminium top hung windows size 2400 x 450mm high overall, consisting of three equal top hung opening sections, all glazed with 6,35mm GSA SmartGlass IntruderprufeNS Clear laminated safety glass and opening sections all to receive burglar proofing, all as per Architects Window Schedule Detail - W02.	No	2		
31 Aluminium top hung windows size 2400 x 450mm high overall, consisting of three equal top hung opening sections and one larger fixed pane section size 800 x 1140mm high below left end opening section, all glazed with 6,35mm GSA SmartGlass IntruderprufeNS Clear laminated safety glass and opening sections all to receive burglar proofing, all as per Architects Window Schedule Detail - W03.	No	1		
32 Aluminium fixed windows size 5400 x 1590mm high overall, consisting of six equal fixed top sections and two larger fixed pane sections both size 900 x 1140mm high below left and right end fixed sections, all glazed with 6,35mm GSA SmartGlass IntruderprufeNS obscure laminated safety glass, all as per Architects Window Schedule Detail - W04.	No	2		
<u>ALUMINIUM DOORS, ETC.</u>				
Aluminium doors and shopfronts, etc., are to be constructed and installed in accordance with the guidelines of The Association of Architectural Aluminium Manufactures of South Africa (AAAMSA).				
Unless otherwise stated ironmongery is to be the manufacturer's standard corrosion resistant ironmongery for the particular product range.				
Glazing is to be carried out in strict accordance with the SANS 0137/2000 code of Practice: "The Installation of Glazing in Buildings" and where required, safety glazing materials must conform to SANS 1263 and AAAMSA selection guide for safety glazing materials.				
All opening sashes must be weather and draught proofed using wool pile, vinyl, etc. seals and the perimeter frames sealed to the structure using manufacturer approved sealants.				
All aluminium is to be protected after manufacture by removable PVC tape or other approved application. The protection is to be removed only when authorised by the Architect. Any component damaged in any way prior to the completion of the building is to be replaced with new. 'Touching up' of decorative finishes will not be permitted.				
A certificate of conformance with SANS 999 is required.				
Carried to Collection				
Section No. 2				
Bill No. 11				
Metalwork				
			R	

	Unit	Quantity	Rate	Amount
<p>Descriptions in the bills of quantities are to be read in conjunction with the Architects Door and Shopfront Schedules and Details attached. The references given in the descriptions are to the respective types of doors detailed on the Architect's schedules annexed to these Bills of Quantities for tender purposes.</p> <p><u>'Wispeco' or equally approved purpose made Cealco CLIP 44 epoxy powder coated aluminium hinged doors, with R4 (85mm) bottom rail and frames with 25 micron Natural Anodised aluminium protective coating, etc. including hinges with nylon bushes, clip on glazing beads with gasket seals, locksets, handles, bolts, etc., plugged to brickwork or concrete :</u></p>				
33	No	1		
<p>Single glazed aluminium door and frame, to fit opening size 900 x 2100mm high, glazed door with two unequal glass panes with one dividing transom, door glazed with and including 6,35mm PG Smartglass SolarVue PVB laminated safety glass, Grey HL, door fitted with approved standard ironmongery, lockset and handles, all as per attached Architects Door Schedule Detail - D05.</p>				
34	No	2		
<p>Double glazed aluminium door and frame, to fit opening size overall 1800 x 2100mm high, double glazed door in two equal leaves, each leaf with two unequal glass panes with one dividing transom, door glazed with and including 6,35mm PG Smartglass SolarVue PVB laminated safety glass, Grey HL, doors fitted with approved standard ironmongery, lockset and handles, all as per attached Architects Door Schedule Detail - D09.</p>				
<p><u>POWDER COATED ALUMINIUM SHOPFRONTS</u></p> <p>All work is to be executed in strict compliance with the Manufacturer and any other drawings, specifications, etc., issued by the manufacturer. Only specialist contractors approved by the manufacturer may be employed in the preparation and installation of the shop fronts and its ancillary components, e.g. sealant application, glazing.</p> <p>Sealants between aluminium components and between aluminium components and surrounding structures are to be two part polyurethane flexible sealants in accordance with SABS 1077.</p> <p>Silicone sealants for glazing are to be approved and selected and used in strict accordance with the manufacturer's instructions.</p> <p>Santoprene seals to mullions, transoms, etc., are to be Santoprene type G-25067 vent seals.</p> <p>Gasket seals for glazing are to be santoprene seals as recommended by the manufacturer.</p>				
Carried to Collection				
Section No. 2				
Bill No. 11				
Metalwork				
				R

	Unit	Quantity	Rate	Amount
<p>All glass and glazing is to be in accordance with SABS 0137.</p> <p>All junctions between mullions, transoms, etc., are to be mastic sealed.</p> <p>All contact surfaces between sub-frames, frames, cills, etc., and the enclosing structure are to be mastic pointed.</p> <p>All fixings are to be of aluminium or stainless steel. All fixing screws are to be stainless steel.</p> <p>Items described as plugged are to be stainless steel screwed into plastic plugs.</p> <p>Aluminium Shopfront System consisting of frames to be 60-80um Powder Coated Aluminium sections, constructed and installed according to the guidelines of The Association of Architectural Aluminium Manufactures of South Africa (AAASA). Glazing is to be carried out in strict accordance with the SABS 0137/2000 Code of Practice: "The Installation of Glazing in Buildings" and where required, safety glazing materials must conform to SABS 1263. Drawings of all sections and fixing details to be used to be submitted for approval and all dimensions are to be verified on site prior to manufacture. All shopfronts and windows need to be weatherproofed and sealed where necessary and all aluminium is to be protected during installation and for the duration of construction work by removable PVC tape. All ironmongery to be as specified by the manufacturer.</p> <p>Descriptions in the bills of quantities are to be read in conjunction with the Architects Shopfront Schedules, Door Schedules and Details attached. The references given in the descriptions are to the respective types of Shopfronts and Doors detailed on the Architect's schedules annexed to these Bills of Quantities for tender purposes.</p>				
<p>Section No. 2 Bill No. 11 Metalwork</p>			<p style="text-align: right;">Carried to Collection</p>	<p style="text-align: right;">R</p>

	Unit	Quantity	Rate	Amount
<p><u>'SHEERLINE CLIP 44' or equally approved Aluminium Shopfront System, with R4 (85mm) bottom rail, as manufactured and supplied by 'Sheerline' or equally approved Aluminium Systems, complete with sub frames (with 25 micron Natural Anodised Aluminium protective coating), ironmongery, glass, sealing, etc. and fixing to brickwork or concrete :</u></p>				
35	Aluminium Shopfront SF 01 size 24649 x 3684mm high overall, fitted between concrete columns and brickwork, consisting of seventeen (17) unequal top hung opening and fixed sections at high level, with aluminium doors to both bottom ends (doors elsewhere measured), all shopfronts glazed with 6.35mm GSA Smartglass Solarshield S30 Grey Laminated Safety Glass. (Refer to Architects Shopfront Schedule SF 01).	No	1	
36	Aluminium Shopfront SF 02 size 24649 x 3684mm high overall, fitted between concrete columns and brickwork, consisting of seventeen (17) unequal top hung opening and fixed sections at high level, with fixed shopfront sections to one bottom end and aluminium double doors to other bottom end (doors elsewhere measured), all shopfronts glazed with 6.35mm GSA Smartglass Solarshield S30 Grey Laminated Safety Glass. (Refer to Architects Shopfront Schedule SF 02).	No	1	
37	Aluminium Raking Shopfront SF 03 size 20448mm long overall with two ends 3794mm high and raking shopfront sections to gable end above, fitted between concrete columns and brickwork, consisting of eighteen (18) unequal fixed sections at high level to gable and with four equal fixed shopfront sections to both bottom ends, each size 1379 x 3794mm high, with all shopfronts glazed with 6.35mm GSA Smartglass Solarshield S30 Grey Laminated Safety Glass. (Refer to Architects Shopfront Schedule SF 03).	No	1	
38	Aluminium Raking Shopfront SF 04 size 20456mm long overall with two ends 3293mm high and raking shopfront sections to second gable end above, fitted between concrete columns and brickwork, consisting of twenty four (24) unequal fixed sections at high level to gable and with two equal fixed shopfront sections to both bottom ends, with all shopfronts glazed with 6.35mm GSA Smartglass Solarshield S30 Grey Laminated Safety Glass. (Refer to Architects Shopfront Schedule SF 04).	No	1	
Carried to Collection				
Section No. 2				
Bill No. 11				
Metalwork				
			R	

SECTION NO. 2
BUILDING WORKS
BILL NO. 11
METALWORK
COLLECTION

Brought Forward from Page

Page No

- 98
- 99
- 100
- 101
- 102
- 103
- 104
- 105
- 106
- 107
- 108

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 11
Metalwork

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 12</u> <u>PLASTERING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Preparation of surfaces to receive screeds, plaster, etc. :</u> Surfaces shall be dry and clean, free of dust, sand, grit and flaking particles, laitance and loose matter, contaminants such as oil, grease, etc. Surfaces shall have a moisture content not exceeding 4%. All free standing water to be removed prior to application of primers or compounds. Absorbent surfaces to be thoroughly pre-soaked in fresh water. Oil, grease, animal fats, etc. to be removed with suitable product to be applied in strict accordance with the manufacturer's instructions. Once clean, surfaces to be profiled mechanically (scabbling, blasting, scarifying, chipping or grinding) or by means of acid etching in strict accordance with the manufacturer's instructions.</p> <p>All floors should be level and free of all material as per SANS10155 and all existing screeds should be tested for satisfactory levelness using a level light meter.</p> <p>As a general rule, a maximum deviation of not more than 3mm over an area of 3m is a good guide and will give a quality level floor, with the deviation not being too close together and too frequent.</p> <p>Where the screed does not conform to these requirements then a self levelling screed is to be applied and the rates are to include for the testing of the existing screeds as described above.</p> <p><u>V-Grooves to plaster :</u> V-Grooves are deemed to be included and are to be provided in plaster where it meets with concrete columns, slabs or beams.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 12 Plastering</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>GRANOLITHIC:</u></p> <p><u>Method :</u> The method to be used shall be either the monolithic method or the bonded method.</p> <p><u>Preparation :</u> For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix :</u> Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p> <p><u>Panels :</u> Granolithic shall be laid in panels not exceeding 14m for monolithic finishes, not exceeding 9,5m for bonded finishes and not exceeding 6m for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints.</p> <p><u>Laying :</u> Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels.</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 12 Plastering</p>			R	

	Unit	Quantity	Rate	Amount
<u>EPOXY SCREEDS</u>				
<u>Chemical Resistant Epoxy Screed :</u>				
<u>All surfaces must be clean, mechanically sound and free of laitance, dust, grease and oil with vacuum abrasive blast cleaning being the preferred method of surface preparation. Wet grinding followed by vacuuming may also be used. All holes in the concrete or screed which are deeper than 40mm should be repaired before priming. Concrete surfaces should be prepared as above and apply a.b.e. Construction Chemicals (or equally approved) Medium Sea Grey G24 abe screed chemical resistant epoxy screed and comprising a clear resin and activator blended with a pre-packed graded aggregate and a colour pigment including abecote 436 sealer, applied strictly as directed , all in accordance with the manufacturers specifications and instructions.</u>				
7	m ²	62		
8	m	48		
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork :</u>				
9	m ²	924		
10	m ²	31		
<u>Cement plaster on concrete :</u>				
11	m ²	11		
12	m ²	94		
13	m ²	19		
14	m ²	20		
15	m ²	4		
16	m ²	48		
17	m ²	6		
<u>EXTERNAL PLASTER</u>				
<u>Cement plaster on brickwork :</u>				
18	m ²	3		
19	m ²	252		
Carried to Collection			R	
Section No. 2				
Bill No. 12				
Plastering				

SECTION NO. 2
BUILDING WORKS
BILL NO. 12
PLASTERING
COLLECTION

Brought Forward from Page

Page No

110

111

112

113

114

Amount

Carried To Section Summary

Section No. 2
Bill No. 12
Plastering

R

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 13</u> <u>TILING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Patterns</u> Unless otherwise described, tiles shall be laid with continuous joints in both directions.</p> <p><u>Fixing</u> Unless described as fixed with adhesive to plaster (plaster elsewhere) descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as fixed with adhesive on power floated concrete shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles</p> <p><u>Preparation of surfaces:</u> The area to be tiled is to be wood floated. If tiling onto critical surfaces prime with approved primer or use new generation flexible one part adhesives which enables application directly onto critical surfaces.</p> <p>Surfaces must be firm and free of dust, mould, oil, grease, wax polish and organic growth. Organic growth must be removed and the spores killed with an effective fungicide such as a household bleaching solution.</p> <p>On both walls and floors there are minimum curing periods for walls and concrete floors as well as screeds and plasters and they are as follows:</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 13 Tiling</p>			R	

	Unit	Quantity	Rate	Amount
<p>* New concrete floors require 6 weeks curing time before direct bedding</p> <p>* New brick walls require 6 weeks curing time before direct bedding</p> <p>* New concrete floors require 4 weeks curing time before screeding and the screed another 4 weeks before tiling can commence</p> <p>* New brick walls require 4 weeks curing time before plastering and the plaster another 2 weeks before tiling can commence</p>				
<u>CERAMIC WALL TILING</u>				
<u>'Union' Tiles Lin hard body ceramic wall tiles (Code: 1LINCARLIG30X60), or equally approved, size 300 x 600mm, fixed to internal wall plaster backing (elsewhere measured) with TAL or equally approved professional tile adhesive with flush pointed joints continuous in both directions and grouted with TAL or equally approved tinted tile grout, with excess grout on the surface to be cleaned with water as the work proceeds.</u>				
1	On walls.	m ²	146	
2	On narrow widths.	m ²	10	
<u>PORCELAIN FLOOR TILING</u>				
<u>'Union' Tiles porcelain floor tiles (Code: UNM129600), or equally approved, size 600 x 600mm, fixed to internal floor screed (elsewhere measured) with TAL or equally approved professional tile adhesive with flush pointed joints continuous in both directions and grouted with TAL or equally approved tinted tile grout, with excess grout on the surface to be cleaned with water as the work proceeds.</u>				
3	On floors and landings.	m ²	137	
4	Skirtings 100mm high of cut tiles.	m	100	
Carried to Collection				
Section No. 2				
Bill No. 13				
Tiling				
			R	

	Unit	Quantity	Rate	Amount
<p><u>'Union' Tiles porcelain floor tiles (Code: UNM129600), or equally approved, size 600 x 600mm, fixed to external floor screed (elsewhere measured) with TAL or equally approved professional tile adhesive, mixed with TAL or equally approved Bond in lieu of water, to a minimum 1:50 falls in accordance with SANS 1200 D, degree of accuracy I, with flush pointed joints continuous in both directions and grouted with TAL or equally approved tinted tile grout, with excess grout on the surface to be cleaned with water as the work</u></p>				
5				
	m ²	53		
6				
	m	41		
<p><u>NOSINGS, JOINT COVERS, PROTECTORS, ETC.</u></p>				
<p><u>Approved wall edge protectors:</u></p>				
7				
	m	151		
Carried to Collection				
Section No. 2				
Bill No. 13				
Tiling				
				R

SECTION NO. 2
BUILDING WORKS
BILL NO. 13
TILING
COLLECTION

Brought Forward from Page

Page No

116

117

118

Amount

Carried To Section Summary

R

Section No. 2
Bill No. 13
Tiling

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 14</u> <u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p>				
<p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
<p><u>'Polycop' polypropylene pipes:</u> Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with 'Fast-fuse' heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated. Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's All pipe diameters are nominal external.</p>				
<p><u>uPVC pressure pipes and fittings:</u> 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.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 14 Plumbing And Drainage (provisional)</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes, fittings, etc :</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p> <p>Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.</p> <p>Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.</p> <p><u>Chasing :</u></p> <p>Chasing pipes into new walls shall be regarded as "building in" and is not measured seperately. The cost of chasing and making good shall be included in the rates for the pipes.</p> <p><u>Reducing fittings:</u></p> <p>Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><u>Wire gratings:</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><u>Exposed concrete surfaces:</u></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 14 Plumbing And Drainage (provisional)</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>Excavations:</u></p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches). Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes)</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Flush pans:</u></p> <p>Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p> <p>Prices for sinks are to include for preparing the worktop to receive the fitting and for securely fixing sinks to worktops using the clips provided. The Contractor is to provide worktop manufacturers with details of cut outs ensure that the cut openings are sufficiently accurate to provide proper engagement for these clips.</p> <p><u>Waste unions:</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>General:</u></p> <p>All screw and bolt fixings for sanitary ware are to be stainless steel or chromium plate on brass.</p> <p>Prices for sanitary fittings are to include for the application of white anti-fungal silicone sealant between the fittings and abutting wall and floor finishes, vanity tops, bathroom fittings, etc.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 14 Plumbing And Drainage (provisional)</p>			R	

	Unit	Quantity	Rate	Amount
<u>RAINWATER DISPOSAL</u>				
<u>0.60mm Thick Approved seamless aluminium watertight gutters and rainwater accessories, with factory coated finish (colour to match roof sheeting to approval), installed complete as per manufacturers specifications and recommendations:</u>				
1	m	38		
2	No	8		
3	No	6		
4	m	19		
5	No	6		
6	No	4		
<u>uPVC rainwater pipes :</u>				
7	m	15		
8	m	6		
9	No	2		
10	No	2		
<u>Approved 'Fulbore' cast iron outlets, including stainless steel gratings, etc.</u>				
11	No	4		
12	No	2		
Carried to Collection				
Section No. 2				
Bill No. 14				
Plumbing And Drainage (provisional)				
			R	

	Unit	Quantity	Rate	Amount
<u>SANITARY FITTINGS</u>				
<u>'Franke' or equally approved grade 304 (18/10) stainless steel domestic drop on sinks:</u>				
13	'Franke Trendline' or equally approved drop on sink and drainer, size 1500 x 535mm DCB with two centre bowls size 343 x 410 x 146mm deep, set on cupboard fitting (cupboard elsewhere), including cutting one taphole.	No	1	
<u>'Geberit' or equally approved vitreous china wash hand basins :</u>				
14	550 x 480 x 150mm 'Geberit Selnova Comfort' or equally approved white Rectangular barrier free washbasin, ergonomically shaped front and shallow bowl with centred tap hole, including visible integrated overflow, washbasin suitable for use by disabled wheelchair users and mounted to brickwall with required fixing material as per manufacturer and sealed with approved sealant where basin meets the wall.	No	1	
<u>'Geberit' or equally approved fine fireclay lay-on wash hand basins :</u>				
15	600 x 450 x 158mm 'Geberit VariForm' or equally approved white Rectangular lay-on washbasin, with centred tap hole bench, for mounting on granite washtops, including visible integrated overflow and sealed with approved sealant where basin meets washtop.	No	9	
<u>'Geberit' or equally approved vitreous china WC suites :</u>				
16	'Geberit Selnova' or equally approved White vitreous china wall hung rimfree washdown WC with and including white 'Selnova' WC seat fastened from above, with stainless steel hinges, fitted to brick wall, and to receive concealed back inlet concealed cistern with flushvalve (elsewhere measured).	No	8	
17	'Geberit Selnova Comfort' or equally approved White vitreous china wall hung rimfree washdown, large projection WC, suitable for use by disabled wheelchair users, with and including white 'Selnova Comfort' WC seat ring, barrier free and fastened from above, with stainless steel hinge bar, fitted to brick wall, and to receive concealed back inlet concealed cistern with flushvalve (elsewhere measured).	No	1	
Carried to Collection				
Section No. 2				
Bill No. 14				
Plumbing And Drainage (provisional)				
			R	

	Unit	Quantity	Rate	Amount
<u>'Geberit' or equally approved vitreous china urinals :</u>				
18	'Geberit Selnova' or equally approved 360 x 370 x 610mm white vitreous china wall mounted rear inlet and outlet concealed control urinal with flush rim, hidden trap and hidden fastening with Kerafix fastening material for urinals, for operating with automatic water-saving flush and connecting to concealed urinal flush controls (elsewhere measured), fixed to brickwall.	No	6	
19	'Geberit' or equally approved white vitreous china wall mounted urinal division, size 400 x 700mm high, including approved fastening material and fixed to brickwork.	No	6	
<u>STAINLESS STEEL RACKS, TABLES, ETC.</u>				
<u>'Franke model T' or equally approved table manufactured from grade 304 stainless steel 1,2mm thick with a 50x10mm turndown all round. The underside sprayed with vermin proof bitumastic sound deadening and supported with a 30x30x3mm framework and galvanised mild steel backing sheet. Unit fixed 900mm high from the top of the front apron to the finish floor level with and including anchor bolts.</u>				
20	Stainless steel table size 1500 x 650mm wide. (Provisional).	No	1	
21	Stainless steel table size 1850 x 650mm wide. (Provisional).	No	1	
22	Solid Shelves manufactured from grade 304 stainless steel 1.2mm thick shelf designed to fit over the cross braces on the legs of table, size 1500 x 420mm wide.	No	1	
23	Slatted Shelves manufactured from 22mm diameter grade 304 stainless steel tubing. Under shelf designed to fit over the cross braces on the legs of table, size 1850 x 420mm wide.	No	1	
<u>WASTE UNIONS ETC</u>				
<u>Waste unions, etc:</u>				
24	32mm 'Geberit' or equally approved waste outlet with free outlet and valve cover.	No	10	
25	32mm 'Geberit' or equally approved waste outlet with free outlet screen.	No	10	
26	38mm Chrome plated heavy pattern slotted sink waste union with flange, shank, slotted with back nut plug, chain and stay.	No	2	
Carried to Collection				
Section No. 2				
Bill No. 14				
Plumbing And Drainage (provisional)				
			R	

		Unit	Quantity	Rate	Amount
<u>TRAPS ETC</u>					
<u>Traps, etc.:</u>					
27	40 x 50mm Rubber double bowl sink reseal P or S trap combination.	No	1		
28	'Geberit' or equally approved 40mm Bright chrome plated bottle trap with dip tube for washbasins, with horizontal outlet.	No	1		
29	'Geberit' or equally approved 50-56mm Bright chrome plated set of bottle trap for washbasins, with horizontal outlet, for concealed installation, including 32mm connection bend, cover plate, in-wall cabinet, concealed trap, seals, protection box and fastening material.	No	9		
30	'Geberit' or equally approved 50mm Diameter white urinal trap, horizontal rear outlet.	No	6		
<u>TAPS, VALVES, ETC</u>					
<u>Stopcocks, Stoptaps, Gate valves, Check valves, Strainers, etc:</u>					
31	15 x 10mm Code 232/10 Chrome plated angle regulating valve with adaptor nut and ring, including 10mm Diameter x 350mm long chrome plated supply tube and capnut (code C-232PIPE), to basins and sink.	No	11		
32	15mm Rough brass CxC 'Copcal' capillary type underwall stoptap (code 133-15), in line for supply to cisterns.	No	9		
33	15mm Chrome plated fullway ballcock with plastic coated plated steel lever handle.	No	2		
34	22mm Chrome plated fullway ballcock with plastic coated plated steel lever handle.	No	2		
35	22mm 1003/125RB fullway gate valve.	No	2		
<u>Crutch handle, elbow action and lockshield bibtaps:</u>					
36	20mm Rough brass hose crutch handle bibtap with 20mm BSP hose union to standpipes or gulleys.	No	3		
<u>Mixer fittings:</u>					
37	'Hansgrohe' Décor or equally approved chrome single lever basin mixer with 10mm flexible connection tubes (Code 31730000) to wash hand basins.	No	9		
Carried to Collection					
Section No. 2					
Bill No. 14					
Plumbing And Drainage (provisional)					
				R	

	Unit	Quantity	Rate	Amount
38 'Hansgrohe' Talis Care or equally approved chrome single lever basin mixer with extra long handle and 10mm flexible connection tubes (Code 32035000) to disabled wash hand basins.	No	1		
39 'Hansgrohe Décor' or equally approved chrome single lever wall mounted kitchen sink mixer (Code 31825000).	No	1		
<u>Toilet and urinal flushvalves and built in cisterns:</u>				
40 'Geberit' or equally approved installation set with flush pipe, for manual urinal flush control, universal, for concealed installation in solid construction, including protection box with cover, water supply connection, concealed housing, stop valve with throttle, conduit pipe, terminal and 32mm flush pipe, with and including urinal flush control with pneumatic flush actuation, actuation plate Type 10 in stainless steel finish, complete all in accordance with manufacturers instructions and specifications.	No	6		
41 'Geberit' Kombifix element or equally approved 8cm Sigma concealed cistern for wall hung WC (elsewhere measured), height 109cm, front actuated with and including Sigma 10 'Stop & Go flush' screwable actuator in stainless steel finish, including flush pipe and pan connector, water supply connection with angle stop valve, protection cover for service opening and protection cover for flush pipe, fixed with included fastening materials inside solid wall, complete all in accordance with manufacturers instructions and specifications.	No	9		
<u>Pressure reducing valves, vacuum breakers, etc.:</u>				
42 22mm 600kPa Mono pressure control valve (code KH3.116).	No	1		
43 22mm Vacuum breaker (code KHN4.200CX).	No	2		
<u>SANITARY PLUMBING</u>				
<u>uPVC (SANS 967) pipes:</u>				
44 40mm Pipes.	m	15		
45 50mm Pipes.	m	14		
46 110mm Pipes	m	14		
47 40mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	4		
48 50mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	2		
Carried to Collection			R	
Section No. 2				
Bill No. 14				
Plumbing And Drainage (provisional)				

	Unit	Quantity	Rate	Amount
49 110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	5		
<u>Extra over uPVC pipes for fittings (SANS 967):</u>				
50 50mm Reducer.	No	16		
51 110mm Reducer.	No	6		
52 40mm Bend.	No	10		
53 50mm Bend.	No	7		
54 110mm Bend.	No	5		
55 40mm Access bend.	No	10		
56 50mm Access bend.	No	7		
57 110mm Access bend.	No	5		
58 50mm Junction.	No	4		
59 110mm Junction.	No	5		
60 50mm Access junction.	No	2		
61 110mm Access junction.	No	5		
62 110mm Access reducing junction.	No	2		
63 110mm Pan connector	No	9		
64 110mm Two-way' vent valve.	No	5		
<u>Sundries:</u>				
65 Testing waste pipe systems, complete.	Item			
<u>WATER SUPPLIES</u>				
<u>Polycop' polypropylene pipes with and including compression fittings:</u>				
66 15mm Pipes laid in trenches not exceeding 2m deep, including excavation in all materials, bedding, backfilling, compaction and disposing of surplus excavated material.	m	4		
67 22mm Pipes laid in trenches not exceeding 2m deep, including excavation in all materials, bedding, backfilling, compaction and disposing of surplus excavated material.	m	8		
68 15mm Pipes.	m	24		
69 22mm Pipes.	m	10		
Carried to Collection			R	
Section No. 2 Bill No. 14 Plumbing And Drainage (provisional)				

	Unit	Quantity	Rate	Amount
<u>Class 2 copper pipes :</u>				
70	15mm Pipes	m	26	
71	22mm Pipes	m	11	
72	22mm Pipes laid in trenches not exceeding 2m deep, including excavation in all materials, bedding, backfilling, compaction and disposing of surplus excavated material.	m	5	
<u>Extra over Class 2 copper pipes for capillary fittings</u>				
73	15mm Fittings	No	36	
74	22mm Fittings	No	25	
<u>Extra over Class 2 copper pipes for brass compression fittings</u>				
75	15mm Fittings	No	42	
76	22mm Fittings	No	25	
<u>TESTING</u>				
<u>Testing:</u>				
77	Testing water pipe system, complete.	Item		
<u>ELECTRIC WATER HEATERS</u>				
<u>'Approved' Geysers (SABS 151:1992), to be compatible with heat pump installations, where required :</u>				
78	150 Litre horizontally mounted 3kW electric water heater, complete, mounted in duct space, including geyser platform and brackets.	No	1	
<u>'Approved' polyethylene geyser trays (SABS 1848:2000):</u>				
79	Geyser tray to suit 150 litre capacity horizontal geyser (elsewhere measured), with and including 50mm diameter PVC overflow connector.	No	1	
<u>WATER BOILERS AND CHILLERS</u>				
<u>Water boilers and water chillers:</u>				
80	Hydroboil code 3800 7,5/06' litre white powder coated water boiler, plugged and screwed to wall, and connected to water supply and electrical supply, (electrical connection elsewhere measured).	No	1	
Carried to Collection				
Section No. 2				
Bill No. 14				
Plumbing And Drainage (provisional)				
			R	

		Unit	Quantity	Rate	Amount
<u>FIRE APPLIANCES ETC.</u>					
<u>Fire Extinguishers to SANS 10400-T :</u>					
81	1,2 x 1,8m SABS approved fire blanket including mounting bracket and backboard plugged and screwed to wall.	No	1		
82	4,5kg DCP hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	3		
83	5kg Carbon dioxide CO2 hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	1		
84	9kg DCP hand held fire extinguisher including mounting bracket and backboard plugged and screwed to wall.	No	1		
<u>Fire Hose Reels to SANS 10400-T :</u>					
85	Fire hose reel complete with 30m rubber hose, pressure gauge, chromium plated stopcock/ball valve, fire hose reel combined nozzle stop cock shut-off nozzle and wall bracket mounted to wall as per manufacturers instructions and to Engineering fire drawing specifications.	No	2		
<u>WATER SUPPLIES TO FIRE APPLIANCES</u>					
<u>SABS62 Medium Grade Hot Dipped Galvanised Steel Pipes :</u>					
86	25DN GMS pipes.	m	6		
87	25DN GMS Pipes laid underground with and including two layers of Densowrap or equally approved up to 100mm above floor level.	m	38		
<u>Extra over SABS62 Medium Grade Hot Dipped Galvanised Steel pipes for compression fittings:</u>					
88	25DN Elbow.	No	10		
89	25DN Union connector	No	5		
90	25DN Coupling reducer	No	2		
<u>Testing</u>					
91	Testing fire water pipe system, complete	Item			
Carried to Collection					
Section No. 2					
Bill No. 14					
Plumbing And Drainage (provisional)					
				R	

	Unit	Quantity	Rate	Amount
<u>WATER STORAGE TANKS, ETC</u>				
<u>JOJO or equally approved SABS and ECO approved Polyethylene (LLDPE) drinking water tanks with 10 year guarantee :</u>				
92				
10 000 Litre Slimline Cloudy Grey circular water tank, complete with 15mm plastic tap, clip on lid, outlet and overflow, mounted on top of concrete plinth base and tied down as instructed by manufacturer (concrete base elsewhere measured).	No	2		
Carried to Collection				
Section No. 2				
Bill No. 14				
Plumbing And Drainage (provisional)				
				R

SECTION NO. 2

BUILDING WORKS

BILL NO. 14

PLUMBING AND DRAINAGE (PROVISIONAL)

COLLECTION

Brought Forward from Page

Page No

120

121

122

123

124

125

126

127

128

129

130

131

Amount

Carried To Section Summary

R

Section No. 2

Bill No. 14

Plumbing And Drainage (provisional)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 15</u> <u>GLAZING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p>Safety glazing to comply with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, glazed in accordance with NBR N schedule 1 and SABS 0137.</p> <p><u>GLAZING TO WOOD WITH PINNED-ON BEADS (BEADS ELSEWHERE)</u> <u>6,35mm 'GSA Smartglass Intruderprufe' or equally approved normal strength (N.S.) Clear laminated safety glass :</u></p>				
1	m ²	2		
<p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> <u>6mm Silvered float glass copper free mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:</u></p>				
2	No	10		
Carried To Section Summary				
Section No. 2				
Bill No. 15				
Glazing				
			R	

	Unit	Quantity	Rate	Amount	
<p><u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 16</u> <u>PAINTWORK</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>PREPARATORY WORK FOR UNPAINTED SURFACES</u> All work to be executed in strict accordance with the specifications and instructions of the manufacturer. Primers and first coats may be thinned in accordance with the various paint specifications to aid the absorption of the paint. All surfaces must be sound, clean and have a moisture content of less than 8% for walls generally, 3% for slabs/screeds, and 14% for wood etc, when measured with a Doser hygrometer or equivalent. Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with a plaster primer thinned 10% with turpentine.</p> <p><u>PAINTWORK ETC TO NEW WORK</u> <u>ON NEW INTERNAL FLOATED PLASTER SURFACES</u> <u>'Plascon Cashmere' or equally approved paint to interior new cement plaster, surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat Plascon Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats Cashmere (CAS 1) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C3 - industrial environment, for interior use :</u></p>					
1		Walls and beams.	m ²	717	
		Carried to Collection			R
		Section No. 2 Bill No. 16 Paintwork			

	Unit	Quantity	Rate	Amount
2 Projecting columns.	m ²	94		
3 Ceilings and beams.	m ²	21		
<u>ON NEW EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>'Plascon Wall & All' or equally approved paint to exterior new cement plaster, surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat Plascon Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats Wall & All (WAA 1) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C3 - industrial environment, for exterior use :</u>				
4 Walls and beams.	m ²	251		
5 Upstand beams.	m ²	23		
6 Ceilings and beams.	m ²	3		
<u>ON NEW FAIR FACED BRICKWORK</u>				
<u>Prepare surfaces and remove all loose material, builder's plaster etc with weak spirits of salts (or any other suitable means), wash, dry and apply three coats of Approved Brick / Stone sealer':</u>				
7 On facebrick walls externally. (Provisional).	m ²	254		
<u>ON NEW PLASTERBOARD SURFACES</u>				
<u>'Plascon Cashmere' or equally approved paint to interior new plasterboard, surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat Professional Water Based Gypsum Sealer (PGS1) with an overcoating time of 1 hour and finish with two coats Cashmere (CAS 1) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>				
8 Skimmed sloping ceilings and cornices, between steel rafters.	m ²	280		
9 Skimmed partition walls at internal eaves closures.	m ²	45		
Carried to Collection			R	
Section No. 2				
Bill No. 16				
Paintwork				

	Unit	Quantity	Rate	Amount
<u>ON NEW FIBRE-CEMENT BOARD SURFACES</u>				
<u>'Plascon Velvaglo' or equally approved polyurethane enamel paint to new fibre-cement, surface to be dry, sound and clean. Prime with one coat Plascon Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats Velvaglo Polyurethane Enamel (VLO) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C3 - industrial environment, for interior/exterior use :</u>				
10	m	79		
11	m	64		
12	m ²	31		
<u>ON NEW METAL SURFACES</u>				
<u>'Plascon Velvaglo' or equally approved polyurethane enamel paint to new metal, surface to be dry, sound and clean. Clean and degrease with Plascon Aquasolve Degreaser GR1, rinse and prime with one coat Plascon Galvogrip Metal Primer, one coat Plascon Merit Universal Undercoat and finish with two coats Plascon Velvaglo Polyurethane Enamel (VLO) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C3 - industrial environment, for interior/exterior use to galvanised steel :</u>				
13	m ²	7		
14	m ²	168		
15	m ²	37		
16	m ²	1		
17	m	6		
<u>ON NEW WOOD SURFACES</u>				
<u>Two coats oil wood primer</u>				
18	m	61		
Carried to Collection				
Section No. 2				
Bill No. 16				
Paintwork				
			R	

	Unit	Quantity	Rate	Amount
<p><u>'Plascon Velvaglio' or equally approved Polyurethane enamel paint to new wood, surface to be dry, sound and clean, wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats Velvaglio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C5 - coastal/marine environment, for interior / exterior use to new wood :</u></p>				
19	Interior / Exterior slatted grooved doors.	m ²	59	
20	Door frames, etc.	m ²	15	
21	Exterior roof timbers at eaves and verges.	m ²	6	
22	Skirtings, rails, etc not exceeding 300mm girth.	m	133	
<p><u>Prepare surfaces, sand, clean and apply three coats superior quality polyurethane suede varnish, with light sanding between coats :</u></p>				
23	Stage flooring and steps.	m ²	32	
24	Vertical floor boarding to front of stage.	m ²	5	
Carried to Collection				
Section No. 2				
Bill No. 16				
Paintwork				
			R	

SECTION NO. 2
BUILDING WORKS
BILL NO. 16
PAINTWORK
COLLECTION

Brought Forward from Page

Page No

134

135

136

137

Amount

Carried To Section Summary

Section No. 2
Bill No. 16
Paintwork

R

Bill No.		Page	Amount
	<u>SECTION NO. 2</u>		
	<u>BUILDING WORKS</u>		
	<u>SECTION SUMMARY</u>		
1	EARTHWORKS (PROVISIONAL)	41	
2	CONCRETE, FORMWORK AND REINFORCEMENT	47	
3	MASONRY	53	
4	WATERPROOFING	57	
5	ROOF COVERINGS	63	
6	CARPENTRY AND JOINERY	73	
7	CEILINGS PARTITIONS AND ACCESS FLOORING	80	
8	FLOOR COVERINGS, WALL LININGS, ETC	84	
9	IRONMONGERY	91	
10	STRUCTURAL STEELWORK	97	
11	METALWORK	109	
12	PLASTERING	115	
13	TILING	119	
14	PLUMBING AND DRAINAGE (PROVISIONAL)	132	
15	GLAZING	133	
16	PAINTWORK	138	
	Carried to Final Summary		
	Section No. 2 SECTION SUMMARY		R

SECTION 3

EXTERNAL WORKS
(PROVISIONAL)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 1</u> <u>SITE CLEARANCE AND BULK EARTHWORKS</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Note :</u> All Earthworks shall be done in accordance with the SANS 1200 specifications.</p> <p><u>Nature of ground:</u> The Tenderer must acquaint himself with the nature of the material to be excavated. The nature of the ground is assumed to be loose fine to medium sandy material, therefore earth, but possibly interspersed with hard rock or soft rock.</p> <p><u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><u>Dewatering of Excavations</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping , baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water.</p> <p><u>Density testing on filling</u> Rates of filling, etc shall include for all density and soil type testing to prove that the specified compaction is achieved When additional testing is done on instruction of the Architect and these tests are successful, they will be paid for additionally.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 1 Site Clearance And Bulk Earthworks</p>			R	

	Unit	Quantity	Rate	Amount
<u>SITE CLEARANCE, ETC.</u>				
<u>Site clearance, etc.:</u>				
2				
Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.				
	m ²	1 890		
3				
Strip topsoil layer average 150mm thick and stockpile on site.				
	m ³	284		
<u>REMOVAL OF TREES, ETC.</u>				
<u>Taking out and removing, grubbing up roots and filling in holes:</u>				
4				
Tree stump exceeding 200mm and not exceeding 500mm girth.				
	No	1		
5				
Tree stump exceeding 500mm and not exceeding 1000mm girth.				
	No	1		
<u>Cut down and remove, grub up roots and fill in holes:</u>				
6				
Tree exceeding 500mm and not exceeding 1000mm girth.				
	No	1		
7				
Tree exceeding 1000mm and not exceeding 1500mm girth.				
	No	1		
8				
Tree exceeding 1500mm and not exceeding 2000mm girth.				
	No	1		
9				
Tree exceeding 2000mm and not exceeding 2500mm girth.				
	No	1		
<u>BULK EXCAVATION</u>				
<u>Open face excavation in earth over sloping site:</u>				
10				
Open face excavation over sloping site to reduce levels for platforms including spreading and levelling in areas of fill and depositing excavated material over site including haulage not exceeding 1 km from perimeter of excavations.				
	m ³	257		
<u>Extra over bulk excavation in earth for excavation in:</u>				
11				
Soft rock				
	m ³	30		
12				
Hard rock				
	m ³	15		
Carried to Collection				
Section No. 3				
Bill No. 1				
Site Clearance And Bulk Earthworks				
			R	

	Unit	Quantity	Rate	Amount
<u>CARTING AWAY.</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
13	In spoil heaps where directed on site.	m ³	257	
14	Off site to a dumping site to be found by the Contractor.	m ³	141	
<u>COMPACTION OF SURFACES</u>				
<u>Compaction of surfaces:</u>				
15	In - place treatment of existing or filled material by ripping, scarifying for a depth of 150mm, breaking down oversize material, stabilizing soil with and including 4% lime mixed evenly into fill material and compacting to 90% Mod AASHTO density.	m ²	1 890	
<u>EARTH FILLING, ETC.</u>				
<u>Filling with material from the excavations, cut to fill, spread and levelled and compacted to a density of at least 93% Mod. AASHTO maximum density:</u>				
16	Over site for platforms.	m ³	116	
<u>Filling with approved G5 sub-base quality material carted onto site by the Contractor, compacted to a density of at least 93% Mod. AASHTO maximum density in 150mm layers:</u>				
17	Over site for platforms.	m ³	129	
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
18	Keeping excavations free of all water other than subterranean water.	Item		
<u>TESTS</u>				
Rates of filling, etc shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Architect and these tests are successful, they will be paid for additionally.				
<u>Prescribed density tests on filling:</u>				
19	Modified AASHTO Density test.	No	5	
20	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	5	
21	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	5	
Carried to Collection				
Section No. 3				
Bill No. 1				
Site Clearance And Bulk Earthworks				
			R	

		Unit	Quantity	Rate	Amount
<u>GRASSING, ETC.</u>					
<u>Ground preparation:</u>					
22	Cultivation and preparation of areas to be planted, including general shaping and trimming of ground.	m ²	655		
<u>Topsoil, compost, lime and fertilizer:</u>					
23	Topsoil obtained from prescribed stock piles on site spread and levelled to average 150mm thick to areas around structures where directed and including in-place treatment of filled topsoil material by ripping, scarifying for a depth of 150mm and breaking down oversize material.	m ²	655		
<u>Fertilizing:</u>					
24	Fertilize garden top soil with 3:2:1 super phosphate spread at a rate of 1kg/10m ² including working evenly into top 20mm depth of soil.	m ²	655		
<u>Grassing of Kikuyu grass or equally approved roots in rows over site:</u>					
25	Kikuyu grass or equally approved runners over topsoiled areas including watering and maintenance, etc until Practical Completion of the project, 3 months maintenance period after practical completion elsewhere measured.	m ²	655		
<u>Maintenance:</u>					
26	Maintenance of grassed and ground covered areas for a period of 3 months (total area approximately 655m ²), including regularly weeding and irrigating as necessary.	Item			
Carried to Collection				R	
Section No. 3					
Bill No. 1					
Site Clearance And Bulk Earthworks					

SECTION NO. 3

EXTERNAL WORKS (PROVISIONAL)

BILL NO. 1

SITE CLEARANCE AND BULK EARTHWORKS

COLLECTION

Brought Forward from Page

Page No

140

141

142

143

144

Amount

Carried To Section Summary

R

Section No. 3

Bill No. 1

Site Clearance And Bulk Earthworks

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 2</u> <u>ROADWORKS AND PARKING AREAS</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Nature of ground:</u> The Tenderer must acquaint himself with the nature of the material to be excavated. The nature of the ground is assumed to be loose fine to medium sandy material, therefore earth, but possibly interspersed with hard rock or soft rock.</p> <p><u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><u>Dewatering of Excavations</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water.</p> <p><u>Density testing on filling</u> Rates of filling, etc shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Architect/Engineer and these tests are successful, they will be paid for additionally.</p> <p><u>Note:</u> All Earthworks shall be done in accordance with the SANS 1200 specifications.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 2 Roadworks And Parking Areas</p>			R	

	Unit	Quantity	Rate	Amount
Refer to the relevant sections in SANS 1200 Mk for the specification of roadworks which will apply in this Bill.				
<u>ROADWORKS, ETC.</u>				
<u>SITE CLEARANCE, ETC.</u>				
<u>Site clearance, etc.:</u>				
1				
Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.				
	m ²	850		
2				
Strip topsoil layer average 150mm thick and stockpile on site.				
	m ³	128		
<u>EXCAVATIONS, ETC.</u>				
<u>Open face excavation in earth over sloping site:</u>				
3				
Open face excavation under roads and parking areas to reduce levels including spreading and levelling in areas of fill and depositing excavated material over site including haulage not exceeding 1 km from perimeter of excavations .				
	m ³	260		
<u>Extra over open face excavation in earth for excavation in:</u>				
4				
Soft rock				
	m ³	30		
5				
Hard rock				
	m ³	15		
<u>CARTING AWAY.</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
6				
In spoil heaps where directed on site.				
	m ³	260		
7				
Off site to a dumping site to be found by the Contractor.				
	m ³	190		
<u>COMPACTION OF SURFACES</u>				
<u>Compaction of surfaces:</u>				
8				
In - place treatment of existing cut or filled material by ripping, scarifying for a depth of 150mm, breaking down oversize material and compacting to 90% Mod AASHTO density:				
	m ²	850		
Carried to Collection				
Section No. 3				
Bill No. 2				
Roadworks And Parking Areas				
			R	

	Unit	Quantity	Rate	Amount
<u>EARTH FILLING, ETC.</u>				
<u>Filling with selected excavated material from excavations on the site, cut to fill, spread and levelled and compacted to a density of at least 93% Mod. AASHTO maximum density in 150mm layers:</u>				
9	m ³	70		
10	m ³	33		
<u>Filling with approved G7 Sub-Base Course material (SABS 1200) supplied and carted onto site by the Contractor, under roadways and parking, and compacted to a density of at least 93% Mod. AASHTO maximum density:</u>				
11	m ³	149		
<u>Filling with approved G5 Sub-Base Course material (SABS 1200) supplied and carted onto site by the Contractor, under roadways and parking, and compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
12	m ³	149		
<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
13	Item			
<u>TESTS</u>				
<u>Note:</u>				
Control testing to be undertaken by the Contractor will be required to prove that the works have been executed in accordance with the Specification and Drawings.				
The Engineer will execute a certain number of check tests to monitor the control testing results submitted by the Contractor. Payment for these check tests will be made from the Provisional quantity allowed in the Bill of Quantities, if they are succesful.				
Rates of filling, etc shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Architect and these tests are successful, they will be paid for additionally.				
<u>Prescribed density tests on filling:</u>				
14	No	5		
Carried to Collection			R	
Section No. 3				
Bill No. 2				
Roadworks And Parking Areas				

		Unit	Quantity	Rate	Amount
15	Natural CBR test.	No	5		
16	Indicator test.	No	5		
17	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	5		
18	Nuclear In-situ density test	No	10		
	<u>SOIL POISONING</u>				
	<u>Approved brand of weedkiller mixed and applied strictly in accordance with the manufacturer's instructions :</u>				
19	Under paving, to delivery access road and parking area, etc.	m ²	975		
	<u>BOND AND INTERLOCKING CONCRETE BLOCK PAVERS</u>				
	Block paving to be manufactured in accordance with SABS Specification 1058 to the following compressive strength: Class 25 or 35MPa or as specified by the Engineer.				
	Paving to be laid in accordance with SANS 1200MJ, SABS 1058 and the Concrete Manufacturers Association's specifications.				
	Clean dry bedding sand complying with SANS 1200D to be laid under paving.				
	Clean dry jointing sand complying with SANS 1200MJ is to be swept into joints between roadstones.				
	Paving to be installed with a minimum longitudinal fall of 1% and a transverse fall of at least 2%.				
	All block paving to be inspected and resanded after 3 months.				
	<u>'Inca' or equally approved paving of 80mm thick Type S-A approved Precast Concrete 'Weathered Charcoal' coloured interlocking paving blocks, size 200 x 100 x 80mm Thick, laid in herringbone pattern on and including 25mm thick compacted river sand bed with fine dry filler jointing sand swept and vibrated into joints all laid on subgrade (elsewhere measured conforming to SABS 1200D degree of accuracy I :</u>				
20	Paving to delivery access road and parking areas to	m ²	975		
21	Fair circular cutting and waste to paving.	m	25		
	Carried to Collection				
	Section No. 3				
	Bill No. 2				
	Roadworks And Parking Areas				
				R	

	Unit	Quantity	Rate	Amount
<u>CONCRETE EDGE BEAM, ETC.</u>				
<u>Excavation not exceeding 2m deep:</u>				
22				
	m ³	1		
<u>Extra over all excavations for carting away</u>				
23				
	m ³	1		
<u>30MPa/19mm Reinforced concrete:</u>				
24				
	m ³	1		
<u>Finishing top surfaces of concrete with a wood float:</u>				
25				
	m ²	4		
<u>Rough formwork:</u>				
26				
	m	26		
<u>Fabric reinforcement :</u>				
27				
	m ²	4		
<u>KERBING CHANNELS, ETC.</u>				
<u>Precast concrete kerbing finished smooth on exposed surfaces including bedding, jointing and pointing, etc.</u>				
28				
	m	195		
29				
	m	4		
30				
	m	21		
31				
	m	115		
32				
	m	4		
Carried to Collection			R	
Section No. 3				
Bill No. 2				
Roadworks And Parking Areas				

	Unit	Quantity	Rate	Amount
<u>PAINTING, ETC.</u>				
<u>Prepare surfaces, wash thoroughly, remove loose material, leave to dry and apply two coats Road Marking' acrylic road marking paint to roadways and parking areas all in accordance with Standard Provincial Road Practice including all setting out to:</u>				
33	m	130		
34	No	1		
35	No	1		
<u>ROAD SIGNAGE</u>				
<u>Traffic sign to Standard Roads Department Specification (SARTSM) comprising reflective face on aluminium reinforced backing fixed to and including 125 -150mm diameter bitumen impregnated creosote pole 3 900mm long with and including stainless steel strapping 16mm wide to top and bottom of pole and including two 40mm diameter breakaway holes drilled through 150mm creosote pole one at 150mm and other at 450mm above finished ground level. Pole to be set in compacted stabilized selected backfill material with 1:12 cement, soil ratio compacted in 100mm layers to 90% Mod. AASHTO maximum density in base size 900mm diameter x 700mm deep with and including all excavations and removal of surplus excavated material from site.</u>				
36	No	1		
37	No	1		
38	No	1		
39	No	1		
Carried to Collection				
Section No. 3				
Bill No. 2				
Roadworks And Parking Areas				

SECTION NO. 3
EXTERNAL WORKS (PROVISIONAL)
BILL NO. 2
ROADWORKS AND PARKING AREAS
COLLECTION

Brought Forward from Page

Page No

146

147

148

149

150

151

Amount

Carried To Section Summary

R

Section No. 3
Bill No. 2
Roadworks And Parking Areas

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 3</u> <u>STORMWATER DRAINAGE</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Note:</u> All Stormwater Drainage shall be done in accordance with the SANS 1200 DB, LB and LE specifications. All plastic pipe diameters are nominal external. All pipes shall be jointed and fixed strictly in accordance with the manufacturers instructions.</p> <p><u>uPVC pipes and fittings:</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>Concrete pipes:</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>Exposed concrete surfaces:</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p> <p><u>Excavations:</u> 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'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p>				
Carried to Collection			R	
Section No. 3 Bill No. 3 Stormwater Drainage				

	Unit	Quantity	Rate	Amount
<p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SANS 1200.</p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>uPVC SABS approved underground stormwater pipes with interlocking socket joints and short lengths to falls in ground, including excavating, backfilling, compacting to 93% modified AASHTO dry density and including all nessasary risk of collapse and dewatering of trenches:</u></p>				
1				
200mm Diameter stormwater pipes laid in and including trenches exceeding 1m and not exceeding 2m deep including 100mm selected grandular material bedding below and 300mm selected fill material above pipe crown.	m	49		
2				
Extra on uPVC stormwater pipes for 200 x 200 x 200mm equal tee fitting.	No	1		
<p><u>Class 100D concrete pipes:</u></p> <p><u>Reinforced precast concrete SABS (Class 100D) pipes including spigot socket joints and short lengths to falls in ground, including excavating, backfilling, compacting to 93% modified AASHTO dry density and including all nessasary risk of collapse and dewatering of trenches:</u></p>				
3				
300mm Diameter Type D Pipes laid in and including trenches exceeding 1m not exceeding 2m deep including 100mm selected grandular material bedding below and 300mm selected fill material above pipe	m	37		
4				
Ditto, but exceeding 2m not exceeding 3m deep.	m	20		
5				
450mm Diameter Type D Pipes laid in and including trenches exceeding 1m not exceeding 2m deep including 100mm selected grandular material bedding below and 300mm selected fill material above pipe	m	47		
6				
Ditto, but exceeding 2m not exceeding 3m deep.	m	24		
7				
600mm Diameter Type D Pipes laid in and including trenches exceeding 1m not exceeding 2m deep including 100mm selected grandular material bedding below and 300mm selected fill material above pipe	m	41		
Carried to Collection			R	
Section No. 3				
Bill No. 3				
Stormwater Drainage				

	Unit	Quantity	Rate	Amount
8 Ditto, but exceeding 2m not exceeding 3m deep.	m	21		
<u>Sumps, catchpits, inspection chambers, manholes etc (gratings and covers elsewhere):</u>				
9 Excavate for and build stormwater catchpit complete exceeding 1000mm not exceeding 2000mm deep to form inlet to stormwater reticulation size 1150 x 1150mm wide overall including 150mm thick 20/19Mpa concrete bottom base with mesh 193 centrally, 220mm brickwork in stocks size 850 x 850mm overall, with 10mm internal plaster, benching to bottom of pit, building in 200mm diameter stormwater pipe and 150mm thick 20/19Mpa concrete cover slab over with mesh 193 centrally, slab to receive 450 x 450mm square dished grating (elsewhere measured) and including all formwork, reinforcement, backfilling, compaction etc . (See Stormwater Catchpit Detail as per Engineering Standard Details Drawing 34435-DET-1 - Stormwater Catchpit Detail).	No	5		
10 Ditto, but exceeding 2000mm not exceeding 3000mm deep.	No	3		
11 Excavate for and build stormwater catchpit/grid inlet to roadways complete exceeding 1000mm deep not exceeding 2000mm deep to form inlet to stormwater reticulation at roadway size 1900 x 1560mm wide overall, including 150mm thick 25/19Mpa concrete bottom base with mesh 245 centrally, 230mm brickwork in stocks size 1600 x 1260mm overall, with 10mm internal plaster, benching to bottom of pit, building in 300mm/450mm or 600mm diameter concrete stormwater pipe to two sides and 150mm thick 25/19Mpa reinforced concrete cover slab over to receive two (2) Table 8 rectangular curved gully gratings and frames to SABS 1115 (elsewhere measured) all built into slab with and including two 1m long inlet kerbs built in and all including all excavations, formwork, reinforcement, backfilling, compaction etc . (See Stormwater Grid Inlet Detail as per Engineering Standard Details Drawing 34435-DET-1 - Stormwater Grid Inlet Detail).	No	5		
12 Ditto, but exceeding 2000mm not exceeding 3000mm deep.	No	4		
<u>Gratings, covers, etc:</u>				
13 450 x 450mm Light duty square dished grating and frame cast into concrete cover slab.	No	8		
14 S.A.B.S. 1115 Table 8 rectangular curved gully grate and frame, cast into concrete.	No	18		
Carried to Collection			R	
Section No. 3				
Bill No. 3				
Stormwater Drainage				

	Unit	Quantity	Rate	Amount
<u>STORMWATER HEADWALLS, OUTLETS, ETC.</u>				
<u>The following in Stormwater Headwalls / Outlets, etc : (See Stormwater Outlet & Headwall Detail as per Engineering Standard Details Drawing 34435-DET-1 - Stormwater Outlet & Headwall Detail).</u>				
15	Excavation in open face to reduce levels for stormwater headwalls and outlets.	m ³	1	
16	Excavation not exceeding 2m deep for trenches below reduced level.	m ³	1	
17	Compaction of ground surfaces under concrete surface beds etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m ²	2	
18	Risk of collapse to sides of excavations not exceeding 1500mm deep.	m ²	5	
19	25 Mpa/19mm Reinforced concrete in surface beds.	m ³	1	
20	25 Mpa/19mm Reinforced concrete in ground beams.	m ³	1	
21	25 Mpa/19mm Reinforced concrete in headwall walls.	m ³	1	
22	Smooth formwork to sides of walls not exceeding 3.5m high.	m ²	8	
23	Finishing top surfaces of concrete smooth with a steel trowel.	m ²	2	
24	10mm Diameter high tensile bar reinforcing.	Tonnes	0.24	
<u>GABIONS, ETC.</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
25	To reduce levels for gabion reno matress.	m ³	1	
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
26	Off site to a dumping site to be found by the Contractor.	m ³	1	
<u>Gabions of PVC coated galvanised wire boxes laced together and filled with max size 50/75mm broken hard and durable stone all in accordance with the 'Standard Specifications for Road and Bridge Works for State Road Authorities 1998'.</u>				
27	2635 x 1500 x 200mm Thick Reno matress properly bonded.	m ³	1	
Carried to Collection			R	
Section No. 3				
Bill No. 3				
Stormwater Drainage				

	Unit	Quantity	Rate	Amount
<u>FILTER FABRIC</u>				
<u>Kaymat U24 or equally approved non-woven continuous filament needle punch polyester filter fabric with 200mm laps (Subject to Engineers approval prior to ordering):</u>				
28				
Under stone filled gabions, reno mattresses, etc, including dressing up sides of excavations to cover full area in continuous layer, and including preparing ground surface.	m ²	6		
<u>SUNDRIES</u>				
<u>Sundries:</u>				
29				
Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock.	m ³	25		
30				
Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock.	m ³	12		
31				
Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the Contractor.	m ³	37		
32				
Extra over backfilling to drain trenches, chambers, etc for imported earth G5 backfilling material supplied by the Contractor.	m ³	37		
<u>TESTING</u>				
<u>Testing :</u>				
33				
Testing complete stormwater drainage pipe system.	Item			
Carried to Collection				
Section No. 3				
Bill No. 3				
Stormwater Drainage				
			R	

SECTION NO. 3

EXTERNAL WORKS (PROVISIONAL)

BILL NO. 3

STORMWATER DRAINAGE

COLLECTION

Brought Forward from Page

Page No

153

154

155

156

157

Amount

Carried To Section Summary

R

Section No. 3

Bill No. 3

Stormwater Drainage

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 4</u> <u>SOIL DRAINAGE AND SEWER RETICULATION</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>Note:</u> All plastic pipe diameters are nominal external. All pipes shall be jointed and fixed strictly in accordance with the manufacturers instructions.</p> <p><u>uPVC pipes and fittings:</u> 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.</p> <p><u>uPVC pressure pipes and fittings:</u> All pipes 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.</p> <p><u>Exposed concrete surfaces:</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p> <p><u>Excavations:</u> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 4 Soil Drainage And Sewer Reticulation</p>			R	

	Unit	Quantity	Rate	Amount
<p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SANS 1200.</p> <p><u>SOIL DRAINAGE, SEWER RETICULATION, ETC.</u></p> <p><u>EXISTING SEWER RETICULATION</u></p> <p><u>Cleaning of existing sewer reticulation pipeline and manholes:</u></p>				
1	m	65		
<p>Cleaning of existing 110mm or 160mm diameter uPVC sewer reticulation pipeline, by hand, winching or high pressure jetting, to get pipeline into full working condition and all to Engineers approval.</p>				
2	No	2		
<p>Cleaning of existing 1000 x 1000mm x approximately 2m deep sewer manhole, by hand or other means, to get manhole into full working condition and all to Engineers approval.</p> <p><u>Removal of existing sewer reticulation pipeline and manholes:</u></p>				
3	m	40		
<p>Locate and remove existing 110mm or 160mm diameter uPVC sewer pipeline to be replaced by new re-routed pipeline, not exceeding 2m deep, including excavations, backfilling with suitable material, carting away surplus material to dump site by contractor and compacting to required density, etc.</p>				
4	No	1		
<p>Locate, break up and remove existing sewer manhole approximate size 1m x 1m not exceeding 2m deep, including excavations, removal of brick structure and concrete base and slab, carting away material to a dump site by contractor, backfilling with suitable material and compacting to required density, etc.</p> <p><u>NEW SEWER RETICULATION</u></p> <p><u>uPVC Class 34 sewer pipes:</u></p>				
5	m	5		
<p>110mm Pipes vertically or ramped to cleaning eyes etc (no excavation).</p>				
Carried to Collection				
Section No. 3				R
Bill No. 4				
Soil Drainage And Sewer Reticulation				

		Unit	Quantity	Rate	Amount
6	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	20		
7	110mm Pipes laid in and including trenches exceeding 1m not exceeding 2m deep.	m	43		
8	160mm Pipes laid in and including trenches not exceeding 1m deep.	m	10		
9	160mm Pipes laid in and including trenches exceeding 1m deep and not exceeding 2m deep.	m	58		
<u>Extra over uPVC Class 34 pipes for fittings:</u>					
10	110mm Bend.	No	5		
11	110mm Access Bend.	No	3		
12	110mm Junction.	No	2		
13	110mm Access junction.	No	3		
14	110mm Access double junction.	No	2		
15	160 x 110mm Y Junction.	No	2		
16	160mm Bend.	No	2		
17	160mm Tee.	No	2		
<u>Gulleys:</u>					
18	Precast concrete dished gulley surround including 110mm 'P' trap PVC gulley head and grating, complete, not exceeding 1000mm deep.	No	3		
Carried to Collection					
Section No. 3					
Bill No. 4					
Soil Drainage And Sewer Reticulation					
				R	

	Unit	Quantity	Rate	Amount
<u>MANHOLES, INSPECTION CHAMBERS, ETC.</u>				
<u>Sewer Manholes and Inspection Chambers :</u>				
19				
	No	2		
20				
	No	3		
21				
	No	3		
<u>SUNDRIES</u>				
<u>Sundries:</u>				
22				
	No	2		
23				
	No	2		
24				
	m ³	6		
25				
	m ³	3		
26				
	m ³	9		
Carried to Collection			R	
Section No. 3				
Bill No. 4				
Soil Drainage And Sewer Reticulation				

SECTION NO. 3

EXTERNAL WORKS (PROVISIONAL)

BILL NO. 4

SOIL DRAINAGE AND SEWER RETICULATION

COLLECTION

Brought Forward from Page

Page No

159

160

161

162

163

Amount

Carried To Section Summary

R

Section No. 3

Bill No. 4

Soil Drainage And Sewer Reticulation

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>BILL NO. 5</u> <u>WATER AND FIRE RETICULATION</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p><u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated. Pipes of 50mm diameter and greater shall be to SABS 966 and 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 or cast steel as recommended by the manufacturer of the pipe, all with similar push-in type joints.</p> <p><u>Reducing fittings:</u> Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><u>Corrosion Protection:</u> External protection of all underground steel pipes, flanges, joints and couplings shall be by means of a 300 micron layer of coaltar epoxy of an approved make. External protection of all above ground steel pipes, flanges, joints and couplings shall be by means of a zinc coating. The finished surface shall be clean and uniform any excess being removed. The zinc deposit shall exceed 0.735 kg/m³.</p> <p><u>Joints, Bolts, Nuts and Washers:</u> "Bolts, nuts and washers shall be treated as follows:</p>				
Carried to Collection			R	
Section No. 3 Bill No. 5 Water And Fire Reticulation				

	Unit	Quantity	Rate	Amount
<p>Bolts and nuts shall be cadmium plated to BS 1706 and shall conform to grade 4.6 of SABS 135 and BS 916.</p> <p>Plain and tapered washers for use with mild steel bolts and nuts shall comply with BS 4320 and will be electro-galvanised to BS 1706.</p> <p>Plain and tapered washers for use with high tensile steel bolts and nuts shall be case hardened with a minimum hardness of Rockwell C-35.</p> <p><u>Corrosive Soil:</u></p> <p>All buried steel pipework and connections to be "DENSO" wrapped.</p> <p>"Fittings and joints shall be protected with 'Denso Tape' or similar approved material.</p> <p>After the joints and fittings have been tested, they shall be liberally and completely coated with 'Denso Paste' and immediately thereafter wrapped with 'Denso Tape'. Wrapping shall commence at a point at least 50mm beyond the opposite side of the joint or fitting. An overlap of at least 25mm shall be given on each turn.</p> <p>Care shall be taken to smooth down the tape so as to avoid air pockets and gaps through which water could penetrate. Any turned or damaged tape shall be replaced or patched to the satisfaction of the Engineer's Representative. The Contractor shall ensure that the wrapping is not damaged during backfilling.</p> <p><u>Galvanising:</u></p> <p>"Galvanised steel pipework, fittings, specials etc. Shall comply with SABS 934 and 763 and be entirely coated with zinc after fabrication by complete immersion in a zinc bath. The finished surface shall be clean and uniform and any excess being removed. The zinc deposit shall exceed the following.</p> <p>Coastal areas 0.735 kg/m³</p> <p>Inland areas 0.400 kg/m³</p> <p>"Coastal areas' shall apply to this contract."</p> <p><u>Pipeline Markers</u></p> <p>Where so instructed by the Engineer or as shown on the drawings, the Contractor shall erect pipeline markers. These markers will be precast concrete units manufactured out of 25 Mpa concrete to the dimensions shown on the drawings and shall comply with SABS 1200 GA Concrete. All markers to receive one primer coat followed by two coats of enamel based paint, colour blue, once erected.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 5 Water And Fire Reticulation</p>			R	

	Unit	Quantity	Rate	Amount
<p>Markers are to be erected 300mm off the edge of the pipe trench to the left of the trench and at right angles to the trench centre line at the points as indicated on the pipe longsections. At bends the marker will be erected at the P.I. Point of these 300 mm offset lines.</p> <p><u>Depth and Cover:</u></p> <p>Depth of excavation for pipe trenches shall be as per the drawing. The minimum required cover to the top of collars shall be 600mm.</p> <p><u>Testing:</u></p> <p>General</p> <p>Pipes shall be tested in convenient lengths not exceeding 500m per each test.</p> <p>Testing of Valves</p> <p>All valves shall be pressure tested according to SABS 664 or other applicable code at the appropriate test pressure.</p> <p>No separate payment shall be made for testing of valves and hydrants and the scheduled rates for the supply and installation of valves shall include for all costs in respect of testing.</p> <p><u>Disinfecting:</u></p> <p>All pipes are to be disinfected to a free chlorine count of 8 parts per million. No separate payment shall be made for disinfecting pipes and scheduled rates for piping shall include for all costs in respect of disinfecting.</p> <p><u>Excavations:</u></p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' and Engineers instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SANS 1200.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 5 Water And Fire Reticulation</p>			R	

	Unit	Quantity	Rate	Amount
<u>WATER AND FIRE SUPPLIES, ETC.</u>				
<u>HDPE WATER PIPES</u>				
<u>Class 10 HDPE water pipes :</u>				
1	m	20		
40mm Diameter pipes laid in and including trenches not exceeding 1m deep.				
2	m	6		
40mm Diameter pipes laid in and including trenches exceeding 1m not exceeding 2 m deep.				
<u>Extra over Class 10 HDPE pipes for HDPE pressure fittings :</u>				
3	No	3		
40mm Reducer.				
4	No	6		
40mm Bend.				
5	No	3		
40mm Threaded adaptor.				
6	No	1		
40mm Equal Tee.				
<u>UPVC PRESSURE WATER PIPES</u>				
<u>Class 9 uPVC pressure water pipes with flexible couplings:</u>				
7	m	30		
75mm Diameter pipes laid in and including trenches not exceeding 1m deep.				
8	m	5		
75mm Diameter pipes laid in and including trenches exceeding 1m not exceeding 2 m deep.				
<u>Extra over Class 9 uPVC pressure pipes for solvent welded pressure fittings:</u>				
9	No	2		
75mm Bend.				
<u>Extra over Class 9 uPVC pressure pipes for cast iron pressure fittings:</u>				
10	No	3		
75 x 40mm Reducing Tee.				
11	No	2		
75mm Saddle including nuts and bolts and drilling boss and pipe.				
12	No	1		
75mm Cast iron to PVC flange adaptor drilled to table including connecting bolts, gaskets, etc.				
13	No	1		
75mm Cast iron Hydrant tee drilled to table 10 SABS 1123 including connecting bolts, gaskets, etc.				
Carried to Collection			R	
Section No. 3				
Bill No. 5				
Water And Fire Reticulation				

		Unit	Quantity	Rate	Amount
<u>WATER METER AND PIPE FITTINGS</u>					
<u>80mm Diameter water meter and pipe fittings installation within and around the meter chamber, all in accordance with Engineers Drawing No 34435-CIV-2 - Water Meter & Isolating Valve Detail :</u>					
14	125mm Diameter VJ Flanged adaptor stepped coupling to suit 75mm Municipal main, bolted on.	No	2		
15	110mm Diameter stainless steel Grade 304 equal tee, flanged all ends to SABS 1123 T16.	No	1		
16	438mm Long x 110mm diameter stainless steel Grade 304 extension piece flanged both ends.	No	2		
17	Denzo wrapped pipe protection to 110mm pipe 220mm long through one brick wall.	No	2		
18	100mm Ø Class 16 RSV SABS 664 Gate valve right hand closing with valve cap flanged to SABS 1123 T16.	No	1		
19	100 x 80mm Diameter S/S Grade 304 Eccentric reducer flanged both ends to SABS 1123 T16.	No	2		
20	80mm Diameter Flanged adaptor flanges to SABS 1123 T16.	No	1		
21	640mm Long x 80mm diameter stainless steel Grade 304 extension piece flanged both ends to SABS 1123 T16.	No	1		
22	80mm Diameter bulk water meter 'Helix 4000' or equally approved, with pulse output flanged both ends to SABS 1123 T16.	No	1		
23	235mm Long x 80mm diameter stainless steel Grade 304 extension piece flanged both ends to SABS 1123 T16.	No	1		
24	100mm Diameter cast iron swing type Non-Return Valve.	No	1		
25	110mm Diameter VJ Flanged adaptor to suit 75mm main pipeline, bolted on.	No	1		
26	15Mpa Concrete haunching support under water meter and valves, etc.	No	3		
Carried to Collection					
Section No. 3					
Bill No. 5					
Water And Fire Reticulation					
				R	

		Unit	Quantity	Rate	Amount
27	Water Meter Chamber/Manhole for water meter and isolating valve, size 2490 x 1340mm wide overall x 1100mm deep, formed of 220mm brick wall sides in 1:3 cement mortar with and including brickforce every second course all round on and including 150mm thick 25/19Mpa concrete base with and including mesh ref 245 placed centrally, rendered internally in 1:5 cement plaster 10mm thick and with 150mm thick 30/19Mpa reinforced concrete surround slab on top including all reinforcing, rebated for and fitted with and including 2 Off Type 1B manhole covers and frames complete with locking devices as per Municipal details, all in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in tallow including all necessary channels and fittings, excavations, filling, formwork, holes through sides for pipes, concrete encasing around pipes through side of manhole, etc. (See 80mm Water Meter Installation Details as per Engineering Standard Details Drawing 34435-CIV-2 - Water Meter & Isolating Valve Chamber Details).	No	1		
28	Extra for 200mm Diameter drain to water meter manhole base with 13mm No-fines concrete.	No	1		
<u>ISOLATION VALVES AND FITTINGS</u>					
<u>'Valves, etc':</u>					
<u>Note:</u>					
All valves shall be coated and lined by means of a powder (sintered) epoxy coating with a dry film thickness of at least 250 micron without holidays.					
All valves, connecting pipe specials and fittings that show any surface corrosion shall be cleaned and protected to the Engineer's satisfaction.					
Sluice Valves shall be the resilient seal type water works pattern gate valve able to operate successfully under a maximum unbalanced static pressure of 1.6MPa. The valve body and other components shall comply with SABS 664/665, the valve shall be of the nonrising spindle type with clockwise closing and generally plain ended for installation in uPVC pipe lines.					
Valves shall all be provided with spindle caps for use with keys unless stated or indicated to the contrary.					
The valve gate shall be covered with a Nitrile rubber resilient seal. Spindles shall be manufactured from heat treated stainless steel grade 420S29, bonnet and gate shall be manufactured out of Spheroidal Graphite Iron Grade 420/12.					
All graphite iron and steel surfaces to be epoxy powder coated.					
				Carried to Collection	
Section No. 3					
Bill No. 5					
Water And Fire Reticulation					
				R	

		Unit	Quantity	Rate	Amount
	<u>Valves, etc.</u>				
29	50mm Diameter RSV flanged cast iron gate valve Class 16 Right hand closing including installation on concrete support pad, joints, including cutting pipes where necessary.	No	3		
	<u>Valve Chambers, etc.</u>				
30	Valve chambers for Isolating Gate Valves size 810 x 810mm overall not exceeding 1m deep, consisting of SABS 558 Type 3A cast iron valve cover size 100 x 230 x 300mm, on 230mm brick footing on well compacted filling and corbelled 115mm brickwork with mortar, including excavations, backfilling, carting away surplus material, etc. - (See Isolating Valve Details as per Engineering Standard Details Drawing 34435-CIV-2 - Water Meter & Isolating Valve Chamber Details).	No	3		
	<u>PIPE SLEEVES UNDER ROAD FOR WATER SUPPLY</u>				
	<u>Class 16 mPVC sleeve pipes:</u>				
31	110mm Pipe sleeve, for 75mm pipes, laid in and including trenches not exceeding 2m deep across roads (trenches measured elsewhere under water pipes).	m	6		
	<u>FIRE HYDRANTS, ETC.</u>				
	<u>Fire Hydrants, etc:</u>				
32	80mm Diameter Fire Hydrant complete, including 80 x 65mm Brass right angle shielded spindle fire hydrant Woodlands type valve with cap and chain, 80 x 63mm diameter brass reducer and transition coupler with brass male thread and brass reducer bush to suit fire hydrant, 80mm tapered thread for B.S.P, including 80mm diameter galvanised pipework approximately 1500mm high with 80mm diameter galvanised long radius bend, approximately 1000mm long 80mm diameter pipework in ground Denso wrapped and fitted to main pipeline with hydrant tee (elsewhere measured), fitted to or encased in concrete hydrant pedestal (elsewhere measured), all as per SABS 1128-2/SANS 1128-2. - (See Fire Hydrant Details as per Engineering Standard Details Drawing 34435-DET-1 - Fire Hydrant).	No	1		
33	Extra for supplying hydrant keys to suit.	No	3		
	Carried to Collection				
	Section No. 3				
	Bill No. 5				
	Water And Fire Reticulation				
				R	

	Unit	Quantity	Rate	Amount
<p><u>TESTING</u></p>				
<p><u>Testing:</u></p>				
<p>43 Testing complete water and fire pipe line systems.</p>	Item			
<p>Section No. 3 Bill No. 5 Water And Fire Reticulation</p>				<p>Carried to Collection</p>
				<p>R</p>

SECTION NO. 3
EXTERNAL WORKS (PROVISIONAL)
BILL NO. 5
WATER AND FIRE RETICULATION
COLLECTION

Brought Forward from Page

Page No

165

166

167

168

169

170

171

172

173

Amount

Carried To Section Summary

R

Section No. 3
Bill No. 5
Water And Fire Reticulation

Bill No.	<p><u>SECTION NO. 3</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>SECTION SUMMARY</u></p>	Page	Amount
1	SITE CLEARANCE AND BULK EARTHWORKS	145	
2	ROADWORKS AND PARKING AREAS	152	
3	STORMWATER DRAINAGE	158	
4	SOIL DRAINAGE AND SEWER RETICULATION	164	
5	WATER AND FIRE RETICULATION	174	
	Carried to Final Summary		
	Section No. 3 SECTION SUMMARY		R

SECTION 4

ELECTRICAL WORKS
(PROVISIONAL)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 1</u> <u>LV DISTRIBUTION BOARDS</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 1 Lv Distribution Boards				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<p>1) Provision of a Sub-Contract Construction Guarantee</p>				
<p>2) Provision of an Advanced Payment Guarantee for materials on/off site</p>				
<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
<p>7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period</p>				
<p>8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates</p>				
<p>9) Other contractual items not listed above</p>				
<p>10) Project Supervision</p>				
<p>11) Project Administration</p>				
<p>12) Other Overheads (Travel, Accommodation)</p>				
<p>13) Provision of Programme for sub-contract works</p>				
<p>14) Completion of necessary commencement, compliance and completion forms</p>				
<p>15) Providing a 'Master Installation Electrician' for overseeing electrical installations</p>				
<p>16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.</p>				
<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 1				
Lv Distribution Boards				
			R	

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 1
LV DISTRIBUTION BOARDS
COLLECTION

Brought Forward from Page

Page No

176

177

178

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 1
Lv Distribution Boards

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 2</u> <u>MAINS CABLES & SUBMAINS WIRING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection				R
Section No. 4 Bill No. 2 Mains Cables & Submains Wiring				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<ol style="list-style-type: none"> 1) Provision of a Sub-Contract Construction Guarantee 2) Provision of an Advanced Payment Guarantee for materials on/off site 3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc. 4) Allowance for compliance with Construction Regulations, OH&S Specification & Act 5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan 6) Allow for Warranty of the Sub-contract works for defects liability period 7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period 8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates 9) Other contractual items not listed above 10) Project Supervision 11) Project Administration 12) Other Overheads (Travel, Accommodation) 13) Provision of Programme for sub-contract works 14) Completion of necessary commencement, compliance and completion forms 15) Providing a 'Master Installation Electrician' for overseeing electrical installations 16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc. 17) Carrying out all testing of the complete sub-contract works and commissioning thereof 18) Training of Clients representative at practical completion 19) Training of Clients representative at end of defects liability period 20) 2 Year Service during Guarantee period 				
			Carried to Collection	R
<p>Section No. 4 Bill No. 2 Mains Cables & Submains Wiring</p>				

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 2
MAINS CABLES & SUBMAINS WIRING
COLLECTION

Brought Forward from Page

Page No

180

181

182

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 2
Mains Cables & Submains Wiring

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 3</u> <u>GENERAL LIGHTING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 3 General Lighting				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<p>1) Provision of a Sub-Contract Construction Guarantee</p>				
<p>2) Provision of an Advanced Payment Guarantee for materials on/off site</p>				
<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
<p>7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period</p>				
<p>8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates</p>				
<p>9) Other contractual items not listed above</p>				
<p>10) Project Supervision</p>				
<p>11) Project Administration</p>				
<p>12) Other Overheads (Travel, Accommodation)</p>				
<p>13) Provision of Programme for sub-contract works</p>				
<p>14) Completion of necessary commencement, compliance and completion forms</p>				
<p>15) Providing a 'Master Installation Electrician' for overseeing electrical installations</p>				
<p>16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.</p>				
<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 3				
General Lighting				
			R	

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 3
GENERAL LIGHTING
COLLECTION

Brought Forward from Page

Page No

184

185

186

187

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 3
General Lighting

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 4</u> <u>LUMINAIRES</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 4 Luminaires				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<p>1) Provision of a Sub-Contract Construction Guarantee</p>				
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<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
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<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
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<p>11) Project Administration</p>				
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<p>13) Provision of Programme for sub-contract works</p>				
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<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 4				
Luminaires				
			R	

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 4
LUMINAIRES
COLLECTION

Brought Forward from Page

Page No

189

190

191

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 4
Luminaires

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u></p>				
<p><u>ELECTRICAL WORKS (PROVISIONAL)</u></p>				
<p><u>BILL NO. 5</u></p>				
<p><u>POWER</u></p>				
<p><u>PREAMBLES</u></p>				
<p>For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p>The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections:</p>				
<p>Section A: Preamble to Standard Specifications</p>				
<p>Section B: Installation Specifications</p>				
<p>Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p>				
<p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p>				
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<p>Carried to Collection</p>				
<p>Section No. 4</p>				
<p>Bill No. 5</p>				
<p>Power</p>				

R

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
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<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
<p>7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period</p>				
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<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 5				
Power				
			R	

SECTION NO. 4

ELECTRICAL WORKS (PROVISIONAL)

BILL NO. 5

POWER

COLLECTION

Brought Forward from Page

Page No

193

194

195

Amount

Carried To Section Summary

Section No. 4

Bill No. 5

Power

R

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 6</u> <u>LIGHTNING PROTECTION</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 6 Lightning Protection				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
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<p>2) Provision of an Advanced Payment Guarantee for materials on/off site</p>				
<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
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<p>8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates</p>				
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<p>10) Project Supervision</p>				
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<p>12) Other Overheads (Travel, Accommodation)</p>				
<p>13) Provision of Programme for sub-contract works</p>				
<p>14) Completion of necessary commencement, compliance and completion forms</p>				
<p>15) Providing a 'Master Installation Electrician' for overseeing electrical installations</p>				
<p>16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.</p>				
<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 6				
Lightning Protection				
			R	

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 6
LIGHTNING PROTECTION
COLLECTION

Brought Forward from Page

Page No

197

198

199

Amount

Carried To Section Summary

Section No. 4
Bill No. 6
Lightning Protection

R

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 7</u> <u>FIRE DETECTION</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 7 Fire Detection				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<p>1) Provision of a Sub-Contract Construction Guarantee</p>				
<p>2) Provision of an Advanced Payment Guarantee for materials on/off site</p>				
<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
<p>7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period</p>				
<p>8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates</p>				
<p>9) Other contractual items not listed above</p>				
<p>10) Project Supervision</p>				
<p>11) Project Administration</p>				
<p>12) Other Overheads (Travel, Accommodation)</p>				
<p>13) Provision of Programme for sub-contract works</p>				
<p>14) Completion of necessary commencement, compliance and completion forms</p>				
<p>15) Providing a 'Master Installation Electrician' for overseeing electrical installations</p>				
<p>16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.</p>				
<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 7				
Fire Detection				
			R	

	Unit	Quantity	Rate	Amount
<u>GUARANTEE</u>				
8	Guarantee			
	Guarantee for the next 12 months including quarterly maintenance checks.	Item		
<u>ELECTRICAL COC</u>				
9	Electrical COC			
	Issuing of an electrical COC for all electrical work done	Item		
<u>FIRE DETECTION EQUIPMENT</u>				
<u>Supply and Installation of the following fire detection equipment, complete, all in accordance with Engineers detailed specification and drawings and in strict accordance with manufacturers specifications and instructions.</u>				
10	Aritech FP 1200 series 2 loop panel	No	1	
11	Aritech NE2011 RS485 Network Card	No	1	
<u>Apollo XP95 series devices or equally approved</u>				
12	Ionization	No	10	
13	Optical	No	5	
14	Multi Criteria	No	1	
15	Detector base	No	16	
16	Input / Output module	No	1	
17	Switch monitor (Single channel)	No	1	
18	Loop Isolator	No	1	
19	Loop Isolator base	No	1	
20	Manual Call point break-glass unit	No	7	
<u>General peripheral devices or equally approved</u>				
21	Red Strobe Light 24VDC	No	2	
22	Apollo XP95A Sounder Beacon (Sounder 24VDC 10W)	No	2	
23	Blue Ginger Power Supply 3A 12VDC suitable for harsh environments c/w over voltage protection and spike arrestors.	No	1	
24	Logbook holder (see standard fire drawings)	No	1	
	Carried to Collection			
	Section No. 4			
	Bill No. 7			
	Fire Detection			

R

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 7
FIRE DETECTION
COLLECTION

Brought Forward from Page

Page No

201
202
203
204
205

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 7
Fire Detection

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 8</u> <u>POWER SUPPLY</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
Carried to Collection			R	
Section No. 4 Bill No. 8 Power Supply				

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<p>1) Provision of a Sub-Contract Construction Guarantee</p>				
<p>2) Provision of an Advanced Payment Guarantee for materials on/off site</p>				
<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
<p>7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period</p>				
<p>8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates</p>				
<p>9) Other contractual items not listed above</p>				
<p>10) Project Supervision</p>				
<p>11) Project Administration</p>				
<p>12) Other Overheads (Travel, Accommodation)</p>				
<p>13) Provision of Programme for sub-contract works</p>				
<p>14) Completion of necessary commencement, compliance and completion forms</p>				
<p>15) Providing a 'Master Installation Electrician' for overseeing electrical installations</p>				
<p>16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.</p>				
<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 8				
Power Supply				
			R	

	Unit	Quantity	Rate	Amount
21) Provision of record drawings				
22) Provision of operating and maintenance manuals				
<u>POWER SUPPLY</u>				
<u>The following in Power Supply :</u>				
1 25kVA Three phase transformer	No	1		
2 7kVA Solar Supply	No	1		
3 8600W 1 Phase Hybrid Bi-Directional Solar Inverter Built in MPPT[Goodwe]	No	1		
4 3,5kW HV Li-ion Battery pack [Pylontech]	No	4		
5 BMS FC0500 for HV Battery pack [Pylontech]	No	1		
6 325W PV Panel Solar Black	No	40		
7 DC Fuse; Earth Leakage; Surge Arrestor; Earth Spike	No	1		
8 PV mounting rails + clamps	No	1		
9 PV Connectors; 4mm Black & Red Cable; 10mm Black & Red & Earth Cable ;Cable Clips	No	1		
10 Nuts & Bolts; Isulation tapes etc	No	1		
<u>TESTING AND COMMISSIONING OF POWER SUPPLY</u>				
<u>Testing and Commissioning, etc. :</u>				
11 Testing and commissioning of the entire power supply installation, complete.	Item			
12 Provision of three sets of operating and maintenance manuals as required.	Item			
13 Provision of 'As-built' drawings, manuals, etc.	Item			
<u>SUNDRIES</u>				
<u>Sundries :</u>				
14 Comprehensive servicing and maintenance during the 12-month guarantee period.	Item			
15 Workshop drawings and equipment schedule submittals for approval prior to ordering for all units.	Item			
16 Training of staff on correct operation of power supply as required.	Item			
Carried to Collection			R	
Section No. 4				
Bill No. 8				
Power Supply				

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 8
POWER SUPPLY
COLLECTION

Brought Forward from Page

Page No

207

208

209

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 8
Power Supply

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u></p>				
<p><u>ELECTRICAL WORKS (PROVISIONAL)</u></p>				
<p><u>BILL NO. 9</u></p>				
<p><u>MISCELLANEOUS ITEMS</u></p>				
<p><u>PREAMBLES</u></p>				
<p>For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p>				
<p><u>SUPPLEMENTARY PREAMBLES</u></p>				
<p>The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections:</p>				
<p>Section A: Preamble to Standard Specifications</p>				
<p>Section B: Installation Specifications</p>				
<p>Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p>				
<p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Electrical Engineer's drawings and Specifications. Contractors attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole installation. The contractor has to allow for these costs in his/her unit rates.</p>				
<p>Although shortened descriptions had been used in this bill, the Contractor must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p>				
<p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p>				
<p>Carried to Collection</p>				
<p>Section No. 4</p>				
<p>Bill No. 9</p>				
<p>Miscellaneous Items</p>				
			R	

	Unit	Quantity	Rate	Amount
<u>Compliance, Preliminaries, etc.</u>				
<p>The Electrical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Electrical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p>				
<p>1) Provision of a Sub-Contract Construction Guarantee</p>				
<p>2) Provision of an Advanced Payment Guarantee for materials on/off site</p>				
<p>3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc.</p>				
<p>4) Allowance for compliance with Construction Regulations, OH&S Specification & Act</p>				
<p>5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan</p>				
<p>6) Allow for Warranty of the Sub-contract works for defects liability period</p>				
<p>7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period</p>				
<p>8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates</p>				
<p>9) Other contractual items not listed above</p>				
<p>10) Project Supervision</p>				
<p>11) Project Administration</p>				
<p>12) Other Overheads (Travel, Accommodation)</p>				
<p>13) Provision of Programme for sub-contract works</p>				
<p>14) Completion of necessary commencement, compliance and completion forms</p>				
<p>15) Providing a 'Master Installation Electrician' for overseeing electrical installations</p>				
<p>16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.</p>				
<p>17) Carrying out all testing of the complete sub-contract works and commissioning thereof</p>				
<p>18) Training of Clients representative at practical completion</p>				
<p>19) Training of Clients representative at end of defects liability period</p>				
<p>20) 2 Year Service during Guarantee period</p>				
Carried to Collection				
Section No. 4				
Bill No. 9				
Miscellaneous Items				
			R	

	Unit	Quantity	Rate	Amount
21) Provision of record drawings				
22) Provision of operating and maintenance manuals				
<u>MISCELLANEOUS ITEMS:</u>				
<u>PRELIMINARY AND GENERAL ITEMS</u>				
<u>Note: Provision for Preliminaries and General that has not been included into the tendered rates. All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:</u>				
1 Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Item			
<u>HEALTH AND SAFETY</u>				
<u>Health and Safety :</u>				
2 All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Item			
<u>ENVIRONMENTAL ASPECTS</u>				
<u>Environmental Aspects :</u>				
3 For managing environmental aspects	Item			
<u>DECOMMISSIONING EXISTING INFRASTRUCTURE</u>				
<u>Decommissioning Existing Infrastructure :</u>				
4 For stripping, removal and making safe of any damaged existing infrastructure on the site	Item			
<u>ADDITIONAL BUILDERS WORKS</u>				
<u>Additional Builders Works :</u>				
5 Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Item			
<u>SHOP DRAWINGS, CALCULATIONS, ETC</u>				
<u>Shop Drawings, Calculations, etc.</u>				
6 Any necessary calculations or drawings requested by the Engineer.	Item			
Carried to Collection				
Section No. 4				
Bill No. 9				
Miscellaneous Items				
			R	

	Unit	Quantity	Rate	Amount
<u>HOUSEKEEPING, LABELS, ETC.</u>				
<u>Housekeeping Labels, etc. :</u>				
7	Item			
Coding and labelling of all plant and equipment and wiring, etc.				
<u>'AS-BUILT' DRAWINGS</u>				
<u>Supply "AS-BUILT" drawings to the Electrical Engineer at First Delivery/Practical Completion, including recording of all as-built information during the course of the contract.</u>				
8	Item			
Record and supply 'AS-BUILT' drawings to Electrical Engineer at Practical Completion.				
<u>EARTHING, ETC</u>				
<u>Complete earthing of installation, including all bonding of water pipes, HWC, etc. New copper earth spikes & all other consumables, and including submission of earth test certificates all in accordance with detailed specification.</u>				
9	Item			
Provide for the Earthing of the building to wiring code including water mains, etc.				
<u>TESTING AND COMMISSIONING</u>				
<u>Complete testing of the installation for compliance with SABS 0142 & submission of Certificate of Compliance for every distribution panel that forms part of the installation and the entire installation.</u>				
10	Item			
Testing of the complete installation in terms of the regulations.				
11	Item			
Provide Certificate of Compliance for the entire installation.				
Carried to Collection				
Section No. 4				
Bill No. 9				
Miscellaneous Items				
			R	

SECTION NO. 4
ELECTRICAL WORKS (PROVISIONAL)
BILL NO. 9
MISCELLANEOUS ITEMS
COLLECTION

Brought Forward from Page

Page No

211

212

213

214

Amount

Carried To Section Summary

R

Section No. 4
Bill No. 9
Miscellaneous Items

Bill No.	<p><u>SECTION NO. 4</u> <u>ELECTRICAL WORKS (PROVISIONAL)</u> <u>SECTION SUMMARY</u></p>	Page	Amount
1	LV DISTRIBUTION BOARDS	179	
2	MAINS CABLES & SUBMAINS WIRING	183	
3	GENERAL LIGHTING	188	
4	LUMINAIRES	192	
5	POWER	196	
6	LIGHTNING PROTECTION	200	
7	FIRE DETECTION	206	
8	POWER SUPPLY	210	
9	MISCELLANEOUS ITEMS	215	
	Carried to Final Summary		
	<p>Section No. 4 SECTION SUMMARY</p>		R

SECTION 5

**MECHANICAL WORKS
(PROVISIONAL)**

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 5</u> <u>MECHANICAL WORKS (PROVISIONAL)</u> <u>BILL NO. 1</u> <u>HEATING, VENTILATION AND AIRCONDITIONING</u></p> <p><u>PREAMBLES</u> For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371-A" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> The Specification for Comprehensive Services Incorporating Electrical Installations document attached under the Drawings and Specifications Section of these Bills of Quantities covers the complete Electrical Installation for the project and forms the total scope of work under the Electrical Contract. It shall be used in conjunction with the Standard Electrical Specification which has the following Sections: Section A: Preamble to Standard Specifications Section B: Installation Specifications Section C: Quality Specification from the Department of Public Works for Materials and Equipment of Electrical Installations.</p> <p>The following bill of quantities must be read in conjunction with the foregoing specifications as well as the attached Mechanical Engineer's drawings and Specifications. Tenderer's attention is specifically drawn to the guarantee against defects, servicing and maintenance period and the testing and commissioning clauses, which is applicable to the whole of the heating, ventilation and air conditioning installation. The contractor has to allow for these costs in his/her unit rates.</p> <p>All equipment as measured shall be deemed to be complete as described in the specifications and include fixing on mounting brackets if so required, connection to water supplies, waste and or overflow pipe work, etc.</p> <p>Every system supplied and installed under the Airconditioning shall be guaranteed for at least one (1) year from the date of Practical Completion against breakdown and/or faulty workmanship and shall be replaced free of charge, irrespective of the manufacturers or suppliers guarantee. All repair and replacement costs shall be borne by the Contractor.</p> <p>Electrical work shall be carried out in accordance with SABS 0142 code of practice as described.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 5 Bill No. 1 Heating, Ventilation And Airconditioning</p>			R	

	Unit	Quantity	Rate	Amount
<p>Anti-vibration mountings, supports, hangers, brackets and accessories are to be used where required to the satisfaction of the Engineer.</p> <p>Rates are to include for condensate drainage piping from evaporator unit to drains including any necessary PVC sleeves through walls.</p> <p>Although shortened descriptions had been used in this bill, tenderers must carefully read the specifications to acquaint themselves with the full description and specifications of the equipment.</p> <p>Where brand or trade names are referred to in this bill of quantities, these shall indicate the quality and type of material or fitting required and no substitution of materials so specified will be permitted unless the prior authority of the Engineer has been obtained in writing.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.</p> <p>The Mechanical Contractor responsible for the works must have the following pre-qualifications:</p> <ol style="list-style-type: none"> 1) Trade Tested 2) Must have experience in Ventilation Installations 3) Must be an Accredited Grade 1ME Contractor <p>Note : The Work shall at all times, for the duration of the sub-contract, be carried out under the supervision of a competent representative of the AC&V Sub-contractor in terms of the Occupational Health and Safety Act No. 85 of 1993, as amended.</p> <p><u>Compliance, Preliminaries, etc.</u></p> <p>The Mechanical Contractor responsible for the works is to note that the works will be done as a Domestic sub-contract to the Main Contractor. There is no separate preliminaries and compliance Bill for the sub-contractor and the Mechanical Sub-Contractor is therefore to make provision in their tendered rates for all necessary Preliminaries and Compliance items applicable to this scope of works, including but not limited to :</p> <ol style="list-style-type: none"> 1) Provision of a Sub-Contract Construction Guarantee 2) Provision of an Advanced Payment Guarantee for materials on/off site 3) Provision of Contract Works, Special, Supplementary, Public Liability Insurances, etc. 4) Allowance for compliance with Construction Regulations, OH&S Specification & Act 				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 5 Bill No. 1 Heating, Ventilation And Airconditioning</p>			R	

	Unit	Quantity	Rate	Amount
5) Allowance for compliance with Construction Regulations - Construction Environment Management Plan				
6) Allow for Warranty of the Sub-contract works for defects liability period				
7) Allow for servicing & routine maintenance of Sub-contract works for defects liability period				
8) Allow for provision of all applicable Test Certificates and/or Compliance Certificates				
9) Other contractual items not listed above				
10) Project Supervision				
11) Project Administration				
12) Other Overheads (Travel, Accommodation)				
13) Provision of Programme for sub-contract works				
14) Completion of necessary commencement, compliance and completion forms				
15) Providing a 'Master Installation Electrician' for overseeing electrical installations				
16) Provision of all necessary forms of access, ie scaffolding, cherry pickers, etc.				
17) Carrying out all testing of the complete sub-contract works and commissioning thereof				
18) Training of Clients representative at practical completion				
19) Training of Clients representative at end of defects liability period				
20) 2 Year Service during Guarantee period				
21) Provision of record drawings				
22) Provision of operating and maintenance manuals				
<u>HEATING, VENTILATION AND AIR CONDITIONING INSTALLATIONS, ETC.</u>				
These bills of quantities shall be read with the drawings and project specifications of the tender document. The price submitted in this bill of quantities will deem all installations to be priced for completed and operational installations.				
<u>FANS, ETC.</u>				
<u>Fans - EAF-01 & EAF-02 :</u>				
1 Ø315 AXIAL AIR FAN COMPLETE WITH 2 x 1.5 D podded attenuators & speed controller, duty @ 500L/s, 150 Pa static pressure & 2880rpm	No	2		
Carried to Collection				
Section No. 5				
Bill No. 1				
Heating, Ventilation And Airconditioning				
			R	

	Unit	Quantity	Rate	Amount
<u>DUCTING</u>				
<u>Galvanised ducting for low pressure ducting. (Air passage sizes indicated on tender drawings for measurement).</u>				
2	Item			
Ducting to include all riser ducts, elbows, transformations, square to round pieces, shoes, spigots, set-up and set-down pieces where required.				
<u>WEATHER LOUVRES / DISC VALVES</u>				
<u>Weather Louvres / Disc Valves :</u>				
3	No	2		
Weather Louvres 400 x 350mm, Natural anodised c/w plenum box and filter.				
4	No	4		
Weather louvers complete with vermin screen, burgular bars and viledon filter size: 500 x 500mm				
5	No	1		
250 x 200mm Extract grille complete with apposed blade damper, colour: White				
6	No	11		
Ø200 Disc valve.				
<u>DOOR GRILLES</u>				
<u>Door Grilles :</u>				
7	No	8		
500 x 300mm Naturally anodised door grille, fitted to timber doors.				
<u>ROOF RIDGE VENTILATORS</u>				
<u>'Curvent' or equally approved roof ridge ventilators :</u>				
8	No	9		
Supply and installation, complete of 'Curvent' or equally approved FK 750 RC ridge ventilator into roof sheeting at ridge.				
<u>TESTING AND COMMISSIONING OF VENTILATION INSTALLATION</u>				
<u>Testing and Commissioning, etc. :</u>				
9	Item			
Testing and commissioning of the entire installation, complete.				
10	Item			
Provision of three sets of operating and maintenance manuals as required.				
11	Item			
Provision of 'As-built' drawings, manuals, etc.				
12	Item			
Comprehensive servicing and maintenance during the 12-month guarantee period.				
Carried to Collection				
Section No. 5				
Bill No. 1				
Heating, Ventilation And Airconditioning				
			R	

	Unit	Quantity	Rate	Amount
<u>SUNDRIES</u>				
<u>Sundries :</u>				
13	Item			
Workshop drawings and equipment schedule submittals for approval prior to ordering for all units.				
14	Item			
Training of staff on correct operation of units as required.				
<u>BUILDERS WORKS IN CONNECTION WITH MECHANICAL INSTALLATIONS</u>				
<u>Approved SAP timber frames in boxing for openings through brickwork/concrete in builders works for Mechanical Installations :</u>				
15	No	2		
Timber frame for opening size 250 x 250mm through one brick wall.				
16	No	2		
Timber frame for opening size 350 x 350mm through one brick wall.				
17	No	1		
Timber frame for opening size 400 x 400mm through one brick wall.				
18	No	2		
Timber frame for opening size 450 x 400mm through one brick wall.				
Carried to Collection				
Section No. 5				
Bill No. 1				
Heating, Ventilation And Airconditioning				
			R	

SECTION NO. 5

MECHANICAL WORKS (PROVISIONAL)

BILL NO. 1

HEATING, VENTILATION AND AIRCONDITIONING

COLLECTION

Brought Forward from Page

Page No

217

218

219

220

221

Amount

Carried To Section Summary

R

Section No. 5

Bill No. 1

Heating, Ventilation And Airconditioning

Amount

SECTION NO. 5

MECHANICAL WORKS (PROVISIONAL)

SECTION SUMMARY

Bill No.

1

HEATING, VENTILATION AND AIRCONDITIONING

Page

222

Carried to Final Summary

Section No. 5
SECTION SUMMARY

R

SECTION 6

OCCUPATIONAL HEALTH AND SAFETY

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 6</u>				
<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
<u>BILL NO. 1</u>				
<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
<u>PRICING OF OCCUPATIONAL HEALTH AND SAFETY</u>				
The Contractor is to take note of and carefully price all Occupational Health and Safety items listed in the Bill below.				
Note: While every effort has been made with the provisions herein to include inter alia, compliance with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor, the Contractor is to carefull take note of any obvious omissions and duly make provision for these accordingly in their pricing of this section and the relevant Preliminaries item.				
Note: Also refer to the relevant item under Preliminaries in the BOQ document which refers to the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.				
This Bill must be read in conjunction with the Project Health & Safety Specification attached together with these bills of quantities and reference should be made to Annexure D (BOQ) which forms part of this specification and which items are included in this bills of quantites for pricing purposes.				
<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
1	Item			
Preparation of the Contractor's site specific Health and Safety Plan including Covid-19 Management.				
2	Item			
Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations / Disaster Management Act, of 2002.				
3	Months	12		
Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations.				
<u>Provision of Personal Protective Equipment (PPE) :</u>				
4	Item			
Reflective vests.				
5	Item			
Hard hats.				
6	Item			
Protective foot wear.				
Carried to Collection			R	
Section No. 6				
Bill No. 1				
Occupational Health And Safety				

	Unit	Quantity	Rate	Amount
7 Earplugs	Item			
8 Dust masks	Item			
9 Gloves	Item			
10 High visibility overalls to SARTSM Chapter 13 Level 3. All overalls must be orange with EPWP (30 centimetres) letters on the back of the jacket and company logo on the heart pocket.	Item			
11 Ear Defenders SABS approved	Item			
12 Overalls	Item			
13 3 Layer material Face Masks	Item			
14 Face Shields	Item			
15 Latex gloves	Item			
16 Induction Training for Covid-19	Item			
17 Safety Goggles for Screening person	Item			
<u>Safety Officers, etc. :</u>				
18 Provision of full time Construction Health and Safety Officer registered with SACPCMP	Months	12		
19 Covid-19 Compliance Officer	Months	12		
<u>Cost of Medical Certificates and Medical Surveillance :</u>				
20 Initial (baseline) medical examinations.	Item			
21 Periodic and exit examinations.	Item			
22 Contractor's charges to allow for handling costs and profit in respect of above sub items for medical examinations.	Item			
23 Screening for Employees with COVID-19 Symptoms	Item			
24 Induction training including Covid-19	Item			
25 Provision of First Aid Boxes to GSR requirements.	Item			
<u>Noise Monitoring :</u>				
26 Establishment of noise zones (plant)	Item			
27 Audiograms (Personnel)	Item			
<u>Health and Safety File :</u>				
28 Submission of Health and Safety File	Item			
Carried to Collection			R	
Section No. 6				
Bill No. 1				
Occupational Health And Safety				

SECTION NO. 6
OCCUPATIONAL HEALTH AND SAFETY
BILL NO. 1
OCCUPATIONAL HEALTH AND SAFETY
COLLECTION

Brought Forward from Page

Page No

224

225

226

Amount

Carried To Section Summary

Section No. 6
Bill No. 1
Occupational Health And Safety

R

Amount

SECTION NO. 6

OCCUPATIONAL HEALTH AND SAFETY

SECTION SUMMARY

Bill No.

1

OCCUPATIONAL HEALTH AND SAFETY

Page

227

Carried to Final Summary

Section No. 6
SECTION SUMMARY

R

SECTION 7

PROVISIONAL SUMS AND ALLOWANCES

SECTION NO. 7

PROVISIONAL SUMS AND ALLOWANCES

PROVISIONAL SUMS AND ALLOWANCES

The following Nominated/Selected Sub-Contract amounts are for work to be carried out by Nominated or Selected Sub-Contractors in terms of the Conditions of Contract :

General

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

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

NOTE: The Tenderers attention is drawn to the fact that unless otherwise described all Provisional Amounts stated are NETT and do not include any builders discount.

Profit on Nominated/Selected Subcontractors :

Where stated, the contractor may allow for profit if required

General Attendance on Nominated/Selected Subcontractors :

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

Builder's Work :

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

NOMINATED / SELECTED SUB-CONTRACTORS

SIGNAGE

Signage :

- 1 Provide the amount of R 15 000.00 (Fifteen Thousand Rands) for Internal and External Signage, not measured, to later specification, executed complete.
- 2 Profit on above item, if required.
- 3 Attend upon the firm executing the installation and make good.

		Amount
	Item	15 000 00
	Item	
	Item	
Carried To Section Summary		R

Section No. 7
Bill No. 1
Provisional Sums And Allowances

		Amount
<u>LANDSCAPING</u>		
<u>Landscaping :</u>		
4	Provide the amount of R 25 000.00 (Twenty Five Thousand Rands) for Landscaping to later specification, executed complete.	Item 25 000 00
5	Profit on above item, if required.	Item
6	Attend upon the firm executing the installation and make good.	Item
<u>ELECTRICAL, ELECTRONIC AND MECHANICAL INSTALLATIONS</u>		
<u>AUDIO SYSTEM</u>		
<u>Audio System :</u>		
7	Provide the amount of R 180 000.00 (One Hundred and Eighty Thousand Rands) for Audio System Installations to later specification, by Specialist, executed complete.	Item 180 000 00
8	Profit on above item, if required.	Item
9	Attend upon the firm executing the installation and make good.	Item
<u>HIGH LEVEL WINDOW ACTUATORS</u>		
<u>High Level Window Actuators :</u>		
10	Provide the amount of R 120 000.00 (One Hundred and Twenty Thousand Rands) for High Level Window Actuator Installations to later specification, by Specialist, executed complete.	Item 120 000 00
11	Profit on above item, if required.	Item
12	Attend upon the firm executing the installation and make good.	Item
<u>BUDGETARY ALLOWANCES</u>		
<u>The following budgetary allowances are for work to be executed by the Contractor and paid for in terms of the Conditions of Contract (work is to be remeasured at Bill rates where-ever possible).</u>		
<u>Sundry Builders Works :</u>		
13	Provide the amount of R 25 000.00 (Twenty Five Thousand Rand) for Sundry Builders Work to all trades, executed complete.	Item 25 000 00
<u>Locate, Expose, Re-route and Maintain Existing Services :</u>		
14	Provide the amount of R 15 000.00 (Fifteen Thousand Rands) to Locate and Expose Existing Services, Re-route and Maintain where necessary.	Item 15 000 00
Carried To Section Summary		R
Section No. 7		
Bill No. 1		
Provisional Sums And Allowances		

MONETARY ALLOWANCES

The following monetary provisions are to be omitted from the contract sum and used as directed below.

Contingency Allowance :

- 15 Provide the amount of R 980 000.00 (Nine Hundred and Eighty Thousand Rand) for a Contingency Allowance to be used for by the Principal Agent / Project Manager and approved by the Client, in terms of the Principal Building Agreement.

Item 980 000 00

CPAP / Escalation Allowance :

- 16 Provide the amount of R 820 000.00 (Eight Hundred and Twenty Thousand Rand) for CPAP / Escalation to be used for Contract Price Adjustment Provisions in terms of the Principal Building Agreement.

Item 820 000 00

Carried To Section Summary

R

Section No. 7
Bill No. 1
Provisional Sums And Allowances

SECTION NO. 7

PROVISIONAL SUMS AND ALLOWANCES

SECTION SUMMARY

Amount

Page

Brought forward from page

229

Brought forward from page

230

Brought forward from page

231

Carried to Final Summary

R

Section No. 7
SECTION SUMMARY

FINAL SUMMARY

Section No.	<u>FINAL SUMMARY</u>	Page	Amount
1	PRELIMINARIES	36	
2	BUILDING WORKS	139	
3	EXTERNAL WORKS (PROVISIONAL)	175	
4	ELECTRICAL WORKS (PROVISIONAL)	216	
5	MECHANICAL WORKS (PROVISIONAL)	223	
6	OCCUPATIONAL HEALTH AND SAFETY	228	
7	PROVISIONAL SUMS AND ALLOWANCES	232	
	SubTotal excluding Value Added Tax		
	ADD VAT @ 15%:		
	Carried to Tender		R
	FINAL SUMMARY		