



Rural development & agrarian reform

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

BID FOR THE CONSTRUCTION OF 2 x 50 SEATER FURNISHED LECTURE THEATRES AT FORT COX

LOCATION: MIDDLEDRIFT

VOLUME 2 – RETURNABLE DOCUMENTS

BID NO -SCMU8-21/22-0092

Head Office: Supply Chain Management
Private Bag X 0040
Bhisho
5605

Contact:
Name: Nosibusiso Mateta
Telephone: 040 605 5263/079 505 9722

Consultants: Nolwandle Quantity Surveyors
Principal Agent
P.O. Box 2250
Beacon Bay, East London
5241

Contact:
Name: Fezeka Manyika
Telephone: 083 271 7191

Tenderer.....

CSD Number:

LOGIS Number:

Preference Points Claimed:

Closing date on tender: 30 September 2021

Time at: 11:00 am

Total of the prices inclusive of applicable taxes: R

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T 2.1 RETURNABLE DOCUMENTS

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

CONSTRUCTION OF 2 x 50 SEATER FURNISHED LECTURE THEATRES AT FORT COX

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

- 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

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	
Enterprise name			

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 project 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:

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

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 least 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>.....</p> <p>SIGNATURE(S) OF BIDDERS(S)</p> <p>DATE:</p> <p>ADDRESS</p> <p>.....</p> <p>.....</p>
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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</p> <p>(b) Who became citizens of the Republic of South Africa by naturalization-</p> <p>i. Before 27 April 1994; or</p> <p>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](http://www.thedti.gov.za/industrial%20development/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 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: SCMU8-21/22-0092

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 D

Imported Content Declaration - Supporting Schedule to Annex C

(D1)	Tender No.	SCMUB-17/18-072	
(D2)	Tender description:		
(D3)	Designated Products:		
(D4)	Tender Authority:		
(D5)	Tendering Entity name:		
(D6)	Tender Exchange Rate:	£/₹	R 9.00 GBP/₹ R 12.00

A. Exempted imported content

[illegible]

B. Imported directly by the Tenderer

[illegible]

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

[illegible]

D. Other foreign currency payments

[illegible]

Signature of tenderer from Annex B

Volume 2 - Returnable Documents
SCM8-21/22-0092

Added (0.05 g) per sample by student's weight. Total (250)

(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.	SCMU8-17/18-072
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	
(E5)	Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			R 0

(E10)	Manpower costs	(Tenderer's manpower cost)	R 0
(E11)	Factory overheads	(Rental, depreciation & amortisation, utility costs, consumables etc.)	R 0
(E12)	Administration overheads and mark-up	(Marketing, insurance, financing, interest etc.)	R 0

(E13) Total local content K U

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:

.....

SBD 4

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	Is the tenderer or any of its directors listed on the National Treasury's database as companies or persons prohibited from doing business with the public sector? (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). 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.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	Is the tenderer or any of its 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)? 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.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so furnish particulars:		
4.3	Was the tenderer or any of its 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?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
4.4	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?	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)				
Skilled Worker				
Semi-skilled Worker				
Unskilled Worker				
Other				
Other				
Other				
Other				
Other				

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

CURRICULUM VITAE OF KEY PERSONNEL

[illegible]**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes my qualifications, my experience and me.

DATE **SIGNATURE OF DIRECTOR**

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

CONTRACTS MANAGER	
Name:	Date of birth:
Profession:	Nationality:
Qualifications:	
Professional Registration Number:	
Name of Employer (firm):	
Current position:	Years with firm:
<u>Employment Record:</u> 	
<u>Experience Record Pertinent to Required service:</u> 	

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes my qualifications, my experience and me.

DATE.. SIGNATURE OF CONTRACTS MANAGER

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

PRELIMINARY CONSTRUCTION PROGRAM

The tenderer shall submit a preliminary program reflecting the proposed sequence and duration of the various activities comprising the work for this Contract to include the projected cash flow for each activity. The program shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his tender.

[Note: The program must be based on the completion time as specified in the Contract Data.]

[illegible]

PROPOSED CONSTRUCTION PERIOD _____ WEEKS

ALTERATIONS BY TENDERER

Should the tenderer desire to make any departure or modification to the General Conditions of Contract, Special Conditions of Contract, Specifications, Schedule of Quantities or Drawings, or to qualify his tender in any way, he shall set out his proposals clearly hereunder, or alternatively, state them in a covering letter attached to his tender and referred to hereunder, failing which the tender will be deemed to be unqualified.

[illegible]

DATE.. SIGNATURE OF TENDERER
(of person authorised to sign on behalf of the tenderer

BASELINE RISK ASSESSMENT

PROJECT TITLE	CONSTRUCTION OF 2 x 50 SEATER FURNISHED LECTURE THEATRES AT FORT COX
SCMU NUMBER	SCMU8-21/22-0092

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

CONTRACTORS HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)(h) of the OHS Act 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 OHS Act 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 OHS Act 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 Materials to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHS Act 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 OHSA 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 OHSA 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 2 X 50 SEATER FURNISHED LECTURER THEATRES AT FORT COX
Project Number:	SCMU8-21/22-0092

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

COMPANY STAMP

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 2 X 50 SEATER FURNISHED LECTURER THEATRES AT FORT COX
Project Number:	SCMU8-21/22-0092

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:

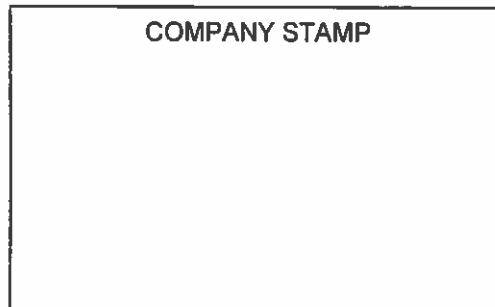
• My contact details are:

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 2 X 50 SEATER FURNISHED LECTURER THEATRES AT FORT COX
Project Number:	SCMU8-21/22-0092

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:

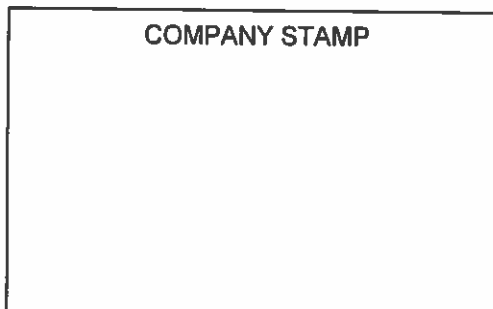
• My contact details are:

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 2 X 50 SEATER FURNISHED LECTURER THEATRES IN FOR COX

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 2 X 50 SEATER FURNISHED LECTURER THEATRES IN FORT COX**

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.

PART C2 – PRICING DATA

C 2.1 PRICING INSTRUCTIONS

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

**BID FOR THE CONSTRUCTION 2 X 50 SEATER FURNISHED LECTURER THEATRES IN FOR
COX**

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 6.2 May 2018 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

SECTION NO. 1
PRELIMINARIES

SECTION NO. 1**PRELIMINARIES****BUILDING AGREEMENT AND PRELIMINARIES**

The JBCC Principal Building Agreement contract data form an integral part of this agreement

The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described

The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause

The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only

Where any item is not relevant to this agreement such item is marked N/A signifying 'not applicable'

Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents

PREAMBLES FOR TRADES

User note

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. Where such preambles are not applicable (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications

Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same

The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

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

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

STRUCTURE OF THIS PRELIMINARIES BILL

A recital of the headings of the individual clauses in the aforementioned **JBCC Principal Building Agreement**

A recital of the headings of the individual clauses in the aforementioned **JBCC General Preliminaries**

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

PRICING OF PRELIMINARIES

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

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

1 Clause 1.0 - Definitions and interpretation

Pricing of bills of quantities

The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities

Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained

Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

Abbreviated descriptions

The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice

Legal status of contractor

If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement
2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons
3. The contractor shall not alter its composition or legal status without the prior written consent of the employer

Item

2 Clause 3.0 - Offer and acceptance

Item

3 Clause 4.0 - Cession and assignment

Item

4 Clause 5.0 - Documents

Value Added Tax

Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)

? Priced document as specification

Clause 5.4 is deemed to be deleted

The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any

User Note

Insert the following where applicable

Electronic issue of drawings

All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.]

Item

4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the Principal Building Agreement

4.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

4.2.3 Compliance with the law, regulations and bylaws [2.1]

Carried To Section Summary

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Section No. 1

Bill No. 1

Preliminaries

4.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

4.2.6 Removal or re-execution of work

4.2.7 Removal or substitution of any materials and goods

4.2.8 Protection of the works

4.2.9 Making good physical loss and repairing damage to the works [23.2.2]

4.2.10 Rectification of defects [21.2]

4.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion

4.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums

5. Electrical engineer

User Note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

5.1 Duties [6.2]

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

Contract instructions [6.2; 17.1]

5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement

5.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

5.2.3 Compliance with the law, regulations and bylaws [2.1]

5.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

5.2.6 Removal or re-execution of work

5.2.7 Removal or substitution of any materials and goods

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

5.2.8 Protection of the works

5.2.9 Making good physical loss and repairing damage to the works [23.2.2]

5.2.10 Rectification of defects [21.2]

5.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion

5.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums

6. Wet services engineer

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

6.1 Duties [6.2]

The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the works

6.2 Contract instructions [6.2]

6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement

6.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

6.2.3 Compliance with the law, regulations and bylaws [2.1]

6.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

6.2.6 Removal or re-execution of work

6.2.7 Removal or substitution of any materials and goods

6.2.8 Protection of the works

6.2.9 Making good physical loss and repairing damage to the works [23.2.2]

6.2.10 Rectification of defects [21.2]

6.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion

6.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

7. Fire consultant

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

7.1 Duties [6.2]

The fire consultant is responsible for all aspects of rational fire design and quality inspection of the works

7.2 Contract instructions [6.2; 17.1]

5 Clause 6.0 - Employer's agents

User Note

Delegated authority may be dealt with in B 5.0 of the contract data.

Insert in the contract data 'Refer to Bill No. 1 (Preliminaries)' should it be dealt with in Bill No. 1

Delegated authority

The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2] This does not preclude the principal agent from issuing such contract instructions.

User Note

Add delegated authority as may be required for other relevant consultants not listed hereinafter

1. Architect

User Note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

1.1 Duties [6.2]

The architect is responsible for the architectural design, functional design and quality inspection of the work

Contract instructions [6.2; 17.1]

Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement

Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

1.2.3 The site

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

1.2.4 1033 Compliance with the law, regulations and bylaws [2.1]

1.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

1.2.7 Removal or re-execution of work

1.2.8 Removal or substitution of any materials and goods

1.2.9 Protection of the works

1.2.10 Making good physical loss and repairing damage to the works [23.2.2]

1.2.11 Rectification of defects [21.2]

1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion

1.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums

1.2.14 Appointment of a subcontractor [14.0; 15.0]

1.2.15 Work by direct contractors [16.0]

1.2.16 On suspension or termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]

2. Quantity surveyor

User Note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

2.1 Duties [6.2]

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works

2.2 Contract instructions [6.1]

2.2.1 No contract instructions delegated to the quantity surveyor

3. Civil and structural engineer

User Note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

3.1 Duties [6.2]

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works

Carried To Section Summary

R

Section No. 1
 Bill No. 1
 Preliminaries

Contract instructions [6.2; 17.1]

3.2.1 Rectification of discrepancies, errors in description quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement

3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

3.2.3 The site [13.0]

3.2.4 Compliance with the law, regulations and bylaws [2.1]

3.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

3.2.7 Removal or re-execution of work

3.2.8 Removal or substitution of any materials and goods

3.2.9 Protection of the works

3.2.10 Making good physical loss and repairing damage to the works [23.2.2]

3.2.11 Rectification of defects [21.2]

3.2.12 A list for practical completion} specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion

3.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums

4. Mechanical engineer

User Note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

4.1 Duties [6.2]

The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

4.2 Contract instructions [6.2; 17.1]

7.2.1 Rectification of discrepancies, errors in description quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

7.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

7.2.3 Compliance with the law, regulations and bylaws [2.1]

7.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

7.2.6 Removal or re-execution of work

7.2.7 Removal or substitution of any materials and goods

7.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

7.2.3 Compliance with the law, regulations and bylaws [2.1]

7.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works

7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

7.2.6 Removal or re-execution of work

7.2.7 Removal or substitution of any materials and goods

8. Health and safety consultant

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

8.1 Duties [6.2]

The health and safety consultant is responsible for all aspects of health and safety of the works. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works. He shall

8.1.1 Act as the employer's agent in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 (as amended)

8.1.2 Prepare and update the health and safety specification for the works

8.1.3 Agree with the contractor the health and safety plan for the works

8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations

8.1.5 Stop the execution of the works where the agreed specification or plan is not adhered to

6 Clause 7.0 - Design responsibility

Item

Item

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

Amount

Insurances and securities (A8-A11)

- | | | Item | Amount |
|----|--------------------------|------|--------|
| 7 | Clause 8.0 - Works risk | Item | |
| 8 | Clause 9.0 - Indemnities | Item | |
| 9 | Clause 10.0 - Insurances | Item | |
| 10 | Clause 11.0 - Securities | | |

User note

If it is deemed advisable, the extent of any guarantee for payment may be stated and whether it is required of the contractor to waive his lien. Edit the following clause

Guarantee for payment

The employer shall provide to the contractor a guarantee for payment in the amount of ZERO Rand (R0.00) [11.5.1]. The contractor shall consequently waive his lien or right of continuing possession of the works [11.1]

User note

Where it is expected of the contractor to waive his lien in terms of clause 11.10, the waiver of lien may be extended to subcontracts as follows:

Extension of waiver of lien

The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]

Item

Execution (A12 - A17) }

- | | | | |
|----|--|--|--|
| 11 | Clause 12.0 - Obligations of the parties | | |
|----|--|--|--|

Office accommodation

The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]

Notice board

The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]

Statutory and other notices

The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard.

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It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto		Item	
12	Clause 13.0 - Setting out	Item	
13	Clause 14.0 - Nominated subcontractors	Item	
14	Clause 15.0 - Selected subcontractors	Item	
15	Clause 16.0 - Direct contractors		
	Attendance on direct contractors		
	In respect of direct contractors the contractor shall:		
	1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials		
	2. Allow the user of personnel welfare facilities, where provided		
	3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation		
	4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1]	Item	
16	Clause 17.0 - Contract instructions		
	Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor	Item	
	<u>Completion (A18 - A24) }</u>		
17	Clause 18.0 - Interim completion	Item	
18	Clause 19.0 - Practical completion	Item	
19	Clause 20.0 - Completion in sections	Item	
20	Clause 21.0 - Defects liability period and final completion	Item	
21	Clause 22.0 - Latent defects liability period	Item	
22	Clause 23.0 - Revision of the date for practical completion		
	Substitution of materials and goods		
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]	Item	
23	Clause 24.0 - Penalty for late or non-completion	Item	
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	<u>Payment (A25 - A27) }</u>	
24	<p>Clause 25.0 - Payment</p> <p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>Fluctuations in costs</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor</p>	Item
25	<p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>Fluctuations in costs</p> <p>All fluctuations in costs, shall be accounted for in terms of CPAP using Haylett formula</p> <p>User note</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works</p> <p>Cost of claims</p> <p>All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs</p> <p>Claims from subcontractors</p> <p>The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]</p>	Item
26	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p><u>Suspension and termination (A28 - A29)</u></p>	Item
27	Clause 28.0 - Suspension by the contractor	Item
28	Clause 29.0 - Termination	Item

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<u>Dispute resolution (A30)</u>		
29	<p>Clause 30.0 - Dispute resolution</p> <p>Agreement</p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>Contract</p> <p>User note</p> <p>Insert under the above heading, with suitable sub-headings any amendments, modifications, corrections or supplements to the contract data</p> <p>Tenderer's selection</p> <p>Before submission of his tender the contractor is to complete the tenderer's selections in the contract data</p> <p>User note</p> <p>All information for the above requires consultation with the contractor. The principal agent should not pre-select any of the alternatives available to the contractor</p>	
<u>SECTION B: GENERAL PRELIMINARIES</u>		
<u>User note</u>		
<p>Amendments, modifications, corrections or supplements to the General Preliminaries in Section B should be recorded in the contract data</p> <p>Should it be necessary to expand on any of the General Preliminaries clauses, the user should list the appropriate General Preliminary clause number and heading and insert the relevant provision under a suitable heading in bold as may be ne</p>		
<u>Definitions and interpretation (B1)</u>		
30	Clause 1.1 - Definitions	Item
31	Clause 1.2 - Interpretation	Item
<u>Documents (B2)</u>		
32	Clause 2.1 - Checking of documents	Item
33	<p>Clause 2.2 - Provisional bills of quantities</p> <p>User note</p> <p>Check 'wet trades' included in the bills of quantities and edit the following clause as may be necessary</p> <p>Multiple procurement</p>	

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	These bills of quantities are in multiple procurement format ie the 'wet trades' - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums	Item	
34	Clause 2.3 - Availability of construction information	Item	
35	Clause 2.4 - Ordering of materials and goods	Item	
	<u>Previous work and adjoining properties (B3)</u>		
36	Clause 3.1 - Previous work - dimensional accuracy	Item	
37	Clause 3.2 - Previous work - defects	N/A	
38	Clause 3.3 - Inspection of adjoining properties	Item	
	<u>The site (B4)</u>		
39	Clause 4.1 - Handover of site in stages	Item	
40	Clause 4.2 - Enclosure of the works		
	User note		
	Describe any specific hoarding requirements - contractor should allow for pricing of temporary fence in order to secure the construction site.	Item	
41	Clause 4.3 - Geotechnical and other investigations	Item	
42	Clause 4.4 - Encroachments	Item	
43	Clause 4.5 - Existing premises occupied	Item	
44	Clause 4.6 - Services - known	Item	
	<u>Management of contract (B5)</u>		
45	Clause 5.1 - Management of the works	Item	
46	Clause 5.2 - Progress meetings	Item	
47	Clause 5.3 - Technical meetings	Item	
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>		
48	Clause 6.1 - Samples of materials	Item	
49	Clause 6.2 - Workmanship samples	Item	
50	Clause 6.3 - Shop drawings	Item	
51	Clause 6.4 - Compliance with manufacturer's instructions	Item	
	<u>Deposits and fees (B7)</u>		
52	Clause 7.1 - Deposits and fees	Item	
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		Amount
	<u>Temporary services (B8)</u>	
53	Clause 8.1 - Water	Item
54	Clause 8.2 - Electricity	Item
55	Clause 8.3 - Ablution and welfare facilities	Item
56	Clause 8.4 - Communication facilities	Item
	<u>Prime cost amounts (B9)</u>	
57	Clause 9.1 - Responsibility for prime cost amounts	
	<p>User note</p> <p>Where details of materials included in prime cost amounts are not readily available and it is therefore not possible for the contractor to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the contractor being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion</p> <p>Where details of materials for which prime cost amounts are to be allowed are readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</p>	Item
	<u>Attendance on subcontractors (B10)</u>	
58	Clause 10.1 - General attendance	
	<p><u>User note</u></p> <p><i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i></p>	Item
59	Clause 10.2 - Special attendance	
	<p>User note</p> <p>Insert details after the provisional sums (nominated or selected subcontract amount for any special attendance where specifically required for each n/s subcontractor separately</p>	
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It is important to note that general attendance only requires the contractor to 'permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site' (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of 'special attendance' in the applicable bill

Item

General (B11)

60 Clause 11.1 - Protection of the works

Item

61 Clause 11.2 - Protection/isolation of existing works and works occupied in sections

Item

62 Clause 11.3 - Security of the works

Item

63 Clause 11.4 - Notice before covering work

Item

64 Clause 11.5 - Disturbance

User note

The following clause may be used should 'disturbance' [11.5] need to be extended

Disturbance

All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever

Item

65 Clause 11.6 - Environmental disturbance

Controlling all forms of pollution

The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc.

The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works

User note

Insert the following clause if an environmental management plan (EMP) is available and insert the EMP in an annexure

Environmental management plan

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	The employer has prepared an environmental management plan (EMP) (refer to Annexure B for a copy of the relevant plan). The contractor shall price opposite this item for compliance with all the requirements of such EMP	Item	
66	Clause 11.7 - Works cleaning and clearing	Item	
67	Clause 11.8 - Vermin	Item	
68	Clause 11.9 - Overhand work	Item	
69	Clause 11.10 - Tenant installations	Item	
70	Clause 11.11 - Advertising	Item	

User note

*Where details of materials included in prime cost amounts are readily available and it is therefore not possible for the **contractor** to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the **contractor** being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion*

SECTION C: SPECIFIC PRELIMINARIES**User note**

Users shall avoid inserting in Section C items which may be construed as amending, modifying, correcting or supplementing the provisions of the JBCC Principal Building Agreement. Such amendments, modifications, corrections or supplements should be kept to the absolute minimum and should be inserted in Section A under the recited clause headings of the JBCC Principal Building Agreement in this Bill No. 1

Selected examples of typical clauses are provided to indicate ways of describing such clauses. Users must delete, adapt or add to these examples to suit their particular circumstances

Warranties for materials and workmanship

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

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice

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

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Specific Preliminaries**71 Overtime**

Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the **contractor** unless the **principal agent** has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the **employer**

Item

72 Cooperation of the contractor for cost management

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 **contract value** does not exceed the budget

Item

73 Overloading

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

Item

74 Propping of floors below

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

Item

75 Testing of flat roof waterproofing for watertightness

Flat roof waterproof areas shall be flooded and kept 'ponded' for at least forty eight hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing

Item

User note

Insert the following where a health and safety specification IS NOT YET available. Note that there is an obligation on the employer to ensure that the contractor has priced opposite this item for the compliance with the act and the regulations and the reasonable provisions of the health and safety specification

Health and safety

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Preliminaries

Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]

User note

*Insert the following where a health and safety specification IS available. Note that there is an obligation on the **employer** to ensure that the **contractor** has priced opposite this item for the compliance with the act and the regulations and the reasonable provisions of the health and safety specification*

76 Health and safety

Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the **employer** shall prepare a documented health and safety specification for **the works** (refer to Annexure A for a copy of the relevant specification) and that the **employer** shall ensure that the **contractor** has made provision for the cost of health and safety measures during the execution of **the works**. The **contractor** shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]

Item

77 The contractor shall

1. Comply with the health and safety specification for **the works**
2. Prepare and agree with the health and safety consultant the health and safety plan for **the works**
3. Cooperate with the health and safety consultant in all respects
4. Manage the compliance of all **subcontractors** with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the **employer's** health and safety specification

Item

78 Green star building certification

User note

Insert the provisions called for by the relevant green star consultant should it be a requirement that the project be submitted for green star certification

Item

79 Broad based black economic empowerment (BBBEE)

Tenders submitted will be evaluated taking into account their empowerment rating

Carried To Section Summary

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Preliminaries

The **employer** will be monitoring the broad based black economic empowerment (BBBEE) status of the **contractor** throughout the execution of the works

The **contractor** is to submit to the **principal agent** on an annual basis a schedule of spend, split into vendors engaged as **subcontractors** and suppliers indicating their BBBEE rating including proof of the said rating

Item

80 Advertising rights

The may employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The **contractor** shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the **principal agent** so as not to hinder the **contractor** in meeting his obligations under this agreement

Item

81 Confidentiality

The **contractor** undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all **subcontractors** and suppliers. Such information shall not be used in any way except in connection with the execution of the works

No information regarding this project shall be published or disclosed without the prior written consent of the **employer**

Item

82 Media releases

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

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

Item

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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SECTION NO. 1

PRELIMINARIES

SECTION SUMMARY

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Section No. 1
SECTION SUMMARY

BUILDING WORKS

SECTION 2

GROUND FLOOR

SECTION NO. 2
BUILDING WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 1</u> <u>EARTHWORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Carting away of excavated material</u> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <u>Nature of ground</u> <p>A soils investigation has been carried out on the site by the engineer and the report is available from the Principal Agent. All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as 'hard rock'</p> <u>Classification of excavated material</u> <p>User Note - The following are typical examples of descriptions of 'nature of ground'</p> <p>"Earth" shall mean all ground other than classified as "hard rock" or "soft "rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0.03m³ in volume</p> <p>"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives</p> <p>"Soft rock" shall mean hard material the removal thereof warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness</p> <u>Filling</u> <p>Filling under floors and backfilling to excavations shall be suitable inert material, free from clay, vegetable matter, large stones, etc spread, levelled and where applicable compacted to Engineer's specified density. The pricing thereof shall include multiple handling.</p> <u>SITE CLEARANCE</u>				
1				
Stripping average 200mm thick layer of top soil and depositing material in prescribed stock piles on site				
	m ²	2 479		
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Section No. 2 Bill No. 1 Earthworks				

	Unit	Quantity	Rate	Amount
<u>EXCAVATION ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
2	Trenches	m³	298	
3	Holes	m³	60	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
4	Soft rock	m³	70	
5	Hard rock	m³	120	
<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	90	
<u>Risk of collapse of excavations</u>				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m²	784	
<u>Keeping excavations free of water</u>				
8	Keeping excavations free of all water other than subterranean water	Item		
<u>FILLING ETC OTHER THAN BULK</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted TO 98% Mod ASHTOO density</u>				
9	Backfilling to trenches, holes, etc	m³	85	
<u>Earth filling in G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
10	Under floors, steps, pavings, etc	m³	174	
<u>Earth filling in G7 material supplied by the contractor, compacted to 93% Mod AASHTO density</u>				
11	Under floors, steps, pavings, etc	m³	157	
<u>Coarse river sand filling supplied by the contractor</u>				
12	Under floors etc	m³	68	
<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m²	743	
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Earthworks				

		Unit	Quantity	Rate	Amount
	<u>Prescribed density tests on filling</u>				
14	Compaction tests including Optimum Moisture Content (four readings per test)	No	25		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide SABS approved</u>				
15	Under floors etc	m ²	621		
16	To bottoms and sides of trenches and holes etc	m ²	875		
17	Under pavings	m ²	60		
	<u>Site clearance</u>				

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Bill No. 1
Earthworks

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BILL NO. 1
EARTHWORKS
COLLECTION

Amount

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 Bill No. 1
 Earthworks

SECTION NO. 2**BUILDING WORKS****BILL NO. 2****CONCRETE, FORMWORK AND REINFORCEMENT****CONCRETE, FORMWORK AND REINFORCEMENT****Cost of tests****SUPPLEMENTARY PREAMBLES**

The costs of making, storing and testing of concrete test cubes as required shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

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

Smooth formwork to sides

"Smooth formwork" shall mean imperfections such as small fins, bulges, irregularities, surface honeycombing and surface discolourations shall be made good and repaired by approved methods. The concrete shall be accurate to degree of accuracy II

User Note - In order to accommodate the custom in some regions to give formwork to sides of beams, isolated beams, etc separately from formwork to the soffits thereof, the items in respect of formwork to beams, isolated beams, etc are given under the headings of 'Formwork to Sides', 'Formwork to Soffits' and 'Formwork to Sides and Soffits'

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

Unit	Quantity	Rate	Amount
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Carried to Collection

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Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement

		Unit	Quantity	Rate	Amount
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>30MPa/19mm concrete</u>					
1	Columns in foundations (Provisional)	m³	49		
2	Stairs	m³	2		
<u>25MPa/19mm concrete</u>					
3	Surface beds	m³	107		
4	Thickening under walls	m³	16		
<u>20MPa/19mm concrete</u>					
5	Strip footings	m³	53		
6	Bases	m³	23		
<u>15MPa/19mm concrete</u>					
7	Surface blinding under footings and bases	m³	11		
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>					
<u>20MPa/19mm concrete</u>					
8	Columns	m³	14		
9	Beams	m³	28		
10	Island bench (as per architect details)	m³	3		
11	In cavity walls (Provisional)	m³	2		
<u>TEST CUBES</u>					
<u>Test cubes</u>					
12	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	58		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
13	Surface beds, slabs, etc	m²	633		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with 10mm bitumen impregnated softboard between vertical concrete and brick surfaces</u>					
14	Not exceeding 300mm high to edges of surface beds	m	136		
Carried to Collection				R	
Section No. 2					
Bill No. 2					
Concrete, Formwork And Reinforcement					

		Unit	Quantity	Rate	Amount
15	Not exceeding 300mm high to edges of slabs and beams	m	272		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides and soffits</u>				
16	Edges exceeding 300mm high	m	5		
17	Stepped outer edges of stairs not exceeding 300mm high	m	2		
18	Rectangular columns	m ²	49		
19	Sides of walls	m ²	5		
20	Beams propped up exceeding 1.5m and n.e 3m high	m ²	30		
21	Sides of beams	m ²	163		
22	Sides of island concrete bench	m ²	10		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
23	Various diameter bars	Tonnes	2.32		
	<u>High tensile steel reinforcement to structural concrete work</u>				
24	Various diameter bars	Tonnes	2.00		
	<u>Fabric reinforcement</u>				
25	Ref 193 fabric reinforcement in concrete surface beds etc	m ²	633		
Carried to Collection				R	
Section No. 2					
Bill No. 2					
Concrete, Formwork And Reinforcement					

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BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

COLLECTION

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Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 3</u>				
<u>MASONRY</u>				
<u>BRICKWORK</u>				
<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				
<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 which ever is directed by the Architect				
<u>Bond</u>				
Brick walls shall be built in class II mortar laid in stretcher bond unless otherwise stated by the Architect and in edges and lintels where the Architect may recommend header course; soldier course, etc.				
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
<u>Brickwork of 7 MPa nominal compressive strength in class II mortar</u>				
1 Piers	m ³	5		
2 One brick walls	m ²	111		
3 270mm Cavity walls	m ²	144		
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of 7 MPa nominal compressive strength in class II mortar</u>				
4 Piers	m ³	5		
5 Half brick walls in lining against concrete face	m ²	93		
6 One brick walls	m ²	252		
7 Half brick walls in beam filling	m ²	77		
8 270mm Cavity wall	m ²	317		
Carried to Collection			R	
Section No. 2				
Bill No. 3				
Masonry				

		Unit	Quantity	Rate	Amount
<u>BRICKWORK SUNDRIES</u>					
<u>Sundries</u>					
<u>2.5mm galvanised brick reinforcement</u>					
9	150mm Wide galvanised built in horizontally	m	277		
10	150mm Wide galvanised built in horizontally in foundations (Provisional)	m	139		
11	75mm Wide reinforcement built in horizontally	m	1 248		
12	75mm Wide reinforcement built in horizontally in foundation (Provisional)	m	624		
<u>Galvanised wire ties etc</u>					
13	Butterfly wire ties fixed to brickwork	No	2 055		
14	50 x 2.5mm Thick galvanised holed hoop iron strap built five courses below wall plate and wrapped over roof truss	No	94		
15	50 x 2.5mm Thick galvanised holed hoop iron strap fixed into RC stiffeners columns and built into brickwork	No	256		
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>					
16	110 x 75mm Lintels in lengths not exceeding 3m	m	10		
<u>Turning pieces to lintels etc</u>					
17	200mm Wide turning pieces	m	77		
<u>Air bricks etc</u>					
18	229 x 76mm Clay vermin proof air brick	No	10		
<u>FACE BRICKWORK</u>					
<u>Corobrik "Ruby Light FBS" face bricks laid in class II mortar and pointed with square recessed and ruled horizontal and vertical joints</u>					
19	Extra over brickwork for face brickwork in foundations (Provisional)	m ²	124		
20	Extra over brickwork for face brickwork	m ²	287		
<u>Corobrik "Ruby Light FBS" face bricks laid in class II mortar and pointed with square recessed and ruled horizontal and vertical joints</u>					
21	Extra over brickwork for face brickwork	m ²	206		
Carried to Collection					R
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Bill No. 3					
Masonry					
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		Unit	Quantity	Rate	Amount
22	Extra over brickwork for face brickwork in lining against concrete	m ²	56		
	<u>Brick-on-edge header course sills, etc of Corobrick "Ruby Light FBS" face bricks, pointed with recessed joints on all exposed faces</u>				
23	85mm Wide sills set sloping and slightly projecting	m	61		
24	85mm Wide sills in soldier course flat above openings	m	10		
25	Header course in foundation wall pointed on face above openings	m	12		
	<u>FIBRE-CEMENT WINDOW SILLS</u>				
	<u>Fibre cement window sills in single lengths bedded in class I mortar including metal fixing lugs screwed to underside with self tapping screws etc.</u>				
26	170 x15mm Wide sills set flat and slightly projecting	m	4		

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Section No. 2
Bill No. 3
Masonry

BILL NO. 3
MASONRY
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Section No. 2
Bill No. 3
Masonry

SECTION NO. 2**BUILDING WORKS****BILL NO. 4****WATERPROOFING****SUPPLEMENTARY PREAMBLES****Waterproofing**

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

All joints in damp-proof course to walls shall be lapped a minimum of 150mm except at junctions and corners where the lap shall equal the full thickness of the wall

DAMP-PROOFING OF WALLS AND FLOORS**One layer 375 micron embossed polyethylene damp-proof course**

- | | Unit | Quantity | Rate | Amount |
|----------------------------------|----------------|----------|------|--------|
| 1 In walls | m ² | 28 | | |
| 2 In walls vertically at reveals | m ² | 18 | | |

One layer 250 micron green polyethylene waterproof sheeting sealed at laps with PVC self-adhesive tape including turn ups

- | | | | | |
|----------------------|----------------|-----|--|--|
| 3 Under surface beds | m ² | 665 | | |
|----------------------|----------------|-----|--|--|

SEALING STRIPS, JOINT SEALANTS, ETC**Silicone sealing compound including backing cord, bond breaker, primer, etc**

- | | | | | |
|---|---|-----|--|--|
| 4 In edges around aluminium windows and door frames | m | 235 | | |
|---|---|-----|--|--|

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Section No. 2
Bill No. 4
Waterproofing

SECTION NO. 2**BUILDING WORKS****BILL NO. 5****ROOF COVERINGS****ROOF COVERINGS, CLADDINGS, ETC****PROFILED METAL SHEETING AND ACCESSORIES**

0.58mm Chromadek galvanised finished IBR Profile Z275pre-painted "aloe green" roof sheets with silicone polyester chromadek finish to top side and half coat polyester Chromadek to under side including fixing to timber purlins (elsewhere measured) at approximately 1 000mm centres,including all screws, bolts, washers, etc, strictly in accordance with manufacturer's specification.

1	Roof covering with pitches not exceeding 25 degrees	m ²	784		
2	0.8mm Chromadek finished galvanised mild steel cap ridge flashing fixed to roof sheeting as per Architect's instruction.	m	135		
3	0.8mm Chromadek finished galvanised mild steel valley flashing fixed to roof sheeting as per Architect's instruction.	m	30		

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Section No. 2
Bill No. 5
Roof Coverings

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

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

Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere The design manufacture and transportation of roof

trusses and all roof members shall be under control of a professionally registered Structural Engineer in accordance to SANS, who shall, after erection provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance to this specification. The fees of the Structural Engineer are deemed to be included in the price of the timber roof structure.

Fully detailed shop drawings of all trusses, purlins bracing indicating sizes, etc shall be submitted to the Principal Agent for approval prior to fabrication Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.

Joinery

Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts

Unit	Quantity	Rate	Amount
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Carried to Collection

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Section No. 2

Bill No. 6

Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u>				
<u>Sawn softwood</u>				
1	Roof construction to double pitched hip roof in irregular shape size 784m2 overall on plan having 20 degrees pitch including trusses, jack rafters, permanent bracing, runners, valleys, wall plate and 75 x 50mm purlins at 700mm centres for roof covering (wall plates elsewhere)	Item		
<u>EAVES, VERGES, ETC</u>				
<u>Pressed Fibre Cement</u>				
2	15 x 225mm Medium density plain Nutec Fibre-cement fascias fixed to runners (elsewhere measured) twice screwed with 12x40mm countersunk brass screws including PVC H - profile joint strips, holes, etc	m	180	
<u>SKIRTINGS</u>				
<u>Meranti</u>				
3	170 x 22mm Skirting nailed to walls	m	212	
4	19mm quadrant plugged	m	212	
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>DOORS</u>				
<u>Solid flush panel door with concealed hardwood edging and finished with hardboard both sides</u>				
5	40mm Door size 813 x 2420mm high (D02)	No	4	
<u>Class B 1 Hour fire door with MDF face finish and hardwood timber edging</u>				
6	44mm Double door with meeting stiles size 1800 x 2400mm high (D03)	No	2	
7	44mm Double door with meeting stiles size 1511 x 2400mm high (D04)	No	2	
8	Extra over for wrought splayed purlins at eaves	m	15	
<u>NOTICEBOARDS, KEYBOARDS, DUCKBOARDS, ETC</u>				
<u>Fixing</u>				
<u>Standard Vitrex domestic pinning board</u>				
9	Pinning board size 3000 x 1200mm long consisting of two 1500 x 1200mm high panels all fixed to plastered walls in position as directed by the architect.	No	2	
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Section No. 2				
Bill No. 6				
Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
	<u>Standard Vitreous enamel magnetic chalkboard</u>				
10	Whiteboard size 3000x 1200mm high consisting fixed to plastered walls in position	No	2		
	<u>SUNDRIES</u>				
11	30 x 1.6mm Hoop iron roof tie 500m girth with both ends fixed to timber	No	130		
	<u>FITTINGS</u>				
	<u>Worktops</u>				
12	32mm thick white Formica Lifeseal U- shaped worktop size 8090mm x 930mm and 3505mm x 600mm by two sides, with 3mm square line profile with 45 degrees miter joint supported by 32mm x 32mm epoxy powder coated square tubing bolted to floors with 10mm x 75mm dyna bolts and including 75mm dia cable rings as per (Architects drawing No. 2107-A-5000)	No	1		
13	300mm dia grey laboratory stool 16mm thick varnished supawood (MDF) at 690mm high on epoxy powder coated framaround tubing	No	11		
14	600mm x 2394mm high white double face melawood wrapped fire hose reel cupboard doors with "strata" matt finish	No	2		
15	600mm x 2394mm high white double face melawood wrapped cleaners and DB cupboard doors with "strata" matt finish	No	2		
	<u>Shelving</u>				
16	L- shaped store room open shelves size 4535mm x 300mm wide, 1870mm x 300mm wide (as per Architect drawing no. 2107-A-5000)	No	1		
	<u>Furniture</u>				
17	2 or 3 swinging laminate auditorium bench system seats fixed to floor and worktops at 540mm centres minimum back to back of 900mm, constructed using a non-scratch, thermosetting epoxy powder coated metal structure 50 microns thick in black or aluminium colour finish with Seat and backrest in multi-ply beech 12mm thick, (to accommodate 50 learners in each lecture halls)	No	100		
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Bill No. 6					
Carpentry And Joinery					

BILL NO. 6
CARPENTRY AND JOINERY
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Section No. 2
Bill No. 6
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
SECTION NO. 2 BUILDING WORKS BILL NO. 7 CEILINGS PARTITIONS AND ACCESS FLOORING SUSPENDED CEILINGS Proprietary suspended ceilings Hangers, suspension grids, lay-in panels, etc are to be in accordance with the manufacturers' recommendations Electrical light fittings, diffusers, panels etc are generally lay-in units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof) <u>1200 x 600 x 15mm Thick pre-painted white acoustic mineral fibre cement ceiling tiles suspended with galvanised hangers at right angles on pre-painted white exposed "Tee" suspension system at 600mm centres at right angles to main "Tee" with 2.5mm diameter pre-straightened galvanised wires at 1200mm centres including main "tee"s, cross "tee"s, hangers, hold down clips, wedges, etc according to the manufacturer.</u>				
1 Ceilings suspended not exceeding 1m below timber purlins at 1200mm centres	m ²	393		
FIXED PARTITIONS <u>Pelican System T2 drywall partition system comprising of 12mm thick compact HPL panels supported by overhead bracing with grade 304 stainless steel supporting feet, plugged and screwed to floors with wall fixing brackets, including paint finish (elsewhere measured)</u>				
2 Partitions 3245mm high with bottom and top tracks plugged.	m	32		
3 Extra over partition 3245mm high for corner.	No	2		
4 Extra over partition 4m high for T-intersection.	No	12		
5 Extra over for forming opening including all steel studs, frame, support, cutting, fitting, waste, ties, finishing reveals, etc for door opening size 813 x 2032mm	No	15		
Carried to Collection			R	
Section No. 2 Bill No. 7 Ceilings Partitions And Access Flooring				

	Unit	Quantity	Rate	Amount
<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>				
<u>70mm Thick flexible faced polyisocyanurate (PIR) insulation board in accordance to manufacturer's instructions</u>				
6 On roof timbers laid over and across purlins in accordance to manufacturer's instructions	m ²	784		
<u>100mm Thick fibre glass insulation blanket</u>				
7 On branderings laid flat between trusses	m ²	621		
<u>NAILED-UP CEILINGS</u>				
<u>6mm Fibre-cement plain ceiling boards fixed to 38 x 38mm sa pine treated branderings at 400mm centres with dry wall screws at 150mm centres with all joints covered with "H"Profile jointing strips</u>				
8 Ceilings laid horizontal in a staggered pattern	m ²	225		
9 Bulkheads laid horizontal in a staggered pattern with 200mm thick projection	m ²	190		
10 Extra over ceilings for 630 x 630mm trap door of 32 x 2,5mm wrought softwood framing covered with ceiling board and fitted flush in opening including necessary trimmers around	No	2		
11 Fibre cement verge soffit board 600mm wide	m ²	56		
<u>Gypsum plasterboard cornices</u>				
12 75mm Coved cornices fixed to ceiling with dry-wall screws including with mitred ends	m	200		
Carried to Collection			R	
Section No. 2				
Bill No. 7				
Ceilings Partitions And Access Flooring				

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BILL NO. 7

CEILINGS PARTITIONS AND ACCESS FLOORING

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Section No. 2

Bill No. 7

Ceilings Partitions And Access Flooring

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SECTION NO. 2

BUILDING WORKS

BILL NO. 8

FLOOR COVERINGS

FLOOR COVERINGS

SUPPLEMENTARY PREAMBLES

Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc

2mm Thick homogenous and monolayered non-directional multi-flake design vinyl sheeting with UV cured cross linked pur treatment on approved adhesive as per Manufacturer

1 On floors

Unit

Quantity

Rate

Amount

m²

315

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Section No. 2

Bill No. 8

Floor Coverings

SECTION NO. 2**BUILDING WORKS****BILL NO. 9****IRONMONGERY****SUPPLEMENTARY PREAMBLES****Finishes to ironmongery**

Where applicable Aluminium fabricator will prepare door with timber insert at handle fixing ensuring stable fix of pull handles and shall ensure upright sections for sufficient width to accept lock specified

Door stop positions shall be directed by the Architect

LOCKS**PULL HANDLES****"Calini Oval"**

1	Pull handle 200mm long (code: IW1306/200)	No	4		
2	Pull handle 300mm long (code: IW1306/300)	No	16		
3	Pull handle 450mm long (code: IW1330/450)	No	4		
4	19mm Pull handle back to back fixing set with rosette for IW1306, IW1318 (22mm and 25mm dia) and IW1320 19mm dia -(code:IWFSBTB19)	No	10		
5	22mm Pull handle back to back fixing set with rosette for IW1330 with 25mm diameter - (code:IWFSBTB22)	No	2		
6	Ironware rebate kits for all doors (code:IW2140SS)	No	4		

HANDLES**"Calini"**

7	Lever handle on 40 x 245mm cylinder back plate (code:IW1051/SBP6CYLSS)	No	3		
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ESCUTCHEONS**"Calini"**

8	Narrow style cylinder escutcheons (code:IW1903CYLSS)	No	2		
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LOCKS**"Ironware"**

9	35mm cylinder dead lock (code:IW2013SS)	No	2		
10	Commercial cylinder sash lock (code:IW2207SS)	No	3		

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Section No. 2

Bill No. 9

Ironmongery

		Unit	Quantity	Rate	Amount
11	Commercial cylinder dead lock (code:IW2219SS)	No	4		
12	60mm double cylinder (code:IW2050NP)	No	7		
13	70mm knob cylinder (code:2062NP)	No	2		
	<u>FLUSH BOLTS</u>				
14	150mm flush lever bolts (code:IW4123SS)	No	4		
15	300mm flush lever bolts (code:4125SS)	No	4		
	<u>DOOR CLOSERS</u>				
16	QS EN2-3 regular arm door closer with silver finish (code:IW6000SS)	No	2		
17	QS EN2-3 regular arm door closer with silver finish for doors up to 1100mm (code:QS700/1STD)	No	5		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>SIGNAGE</u>				
	<u>"Ironware"</u>				
18	150 x 150mm outline engraved female sign (code:IW6000SS)	No	1		
19	150 x 150mm outline engraved male sign (code:IW6001SS)	No	1		
20	150 x 150mm outline engraved paraplegic sign (code:6002SS)	No	1		
	<u>SUNDRIES</u>				
	<u>"Ironware"</u>				
21	Door stop (code:IW5002SC)	No	5		
22	Dust excluding socket (code:IW4060SS)	No	5		
	<u>BATHROOM FITTINGS</u>				
	<u>Franke:</u>				
23	Stainless steel 32mm diameter at rear 670mm x 246mm paraplegic cistern grab rail with fine grip (code: CNTXBR) plugged and screwed to the wall with stainless steel screws	No	2		
24	(Code:CNTX PAR) 640 x 640 x 96mm deep stainless steel grab rails with fine grip plugged and screwed to wall with stainless steel screws	No	2		
Carried to Collection				R	
Section No. 2					
Bill No. 9					
Ironmongery					
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		Unit	Quantity	Rate	Amount
25	156 x 303 x 141mm thick "Franke Stratos" or similar approved satin finished stainless steel double toilet roll dispenser for two rolls with spindle system in maximum 108mm diameter, cylinder lock with standard key, plugged and screwed to wall with stainless steel screws and dowels and front with inoxplus surface refinement (code:1.4301 chrome nicket steel V2A/STRX672)	No	15		
26	205 x 343 x 241mm thick "Franke Stratos" or similar approved satin finished stainless steel paper towel dispenser 1.5mm thick with curved front cover and tear off edge including standard key,cylinder lock with standard key, plugged and screwed to wall with stainless steel screws and dowels and front with inoxplus surface refinement (code:STRX635B)	No	2		
27	186 x 154 x 150mm thick "Franke Stratos" or similar approved satin finished stainless steel liquid soap dispenser 1.5mm thick with curved front cover including standard key with inspection window,cylinder lock with standard key, plugged and screwed to wall with stainless steel screws and dowels and front with inoxplus surface refinement (code: STRX619)	No	2		
28	205 x 305 x 134mm thick "Franke Stratos" or similar approved satin finished stainless steel hygiene waste bin 1.5mm thick with curved front cover, folding selfclosing lid with piano hinge and removable plastic container inside (code: STRX607)	No	10		
29	Stainless steel mirror Chronos (type:M600HD) in grade 304 13mm 18/10 finish with concealed thief resistant fixings, plugged and screwed to wall with stainless steel screws. Installation to be according to manufacturer's instruction size 500 x 600mm	No	12		
<u>WINDOW BLINDS</u>					
<u>Manually operated light filtering fabric roller blinds with face fixed powder coated aluminium rails to suit window and shopfront sizes</u>					
30	950mm x 2420mm window	No	25		
31	1500mm x 2420mm window	No	3		
32	2000mm x 1200mm window	No	2		
33	3700mm x 2420mm window	No	1		

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Bill No. 9
Ironmongery

BILL NO. 9
IRONMONGERY
COLLECTION

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Section No. 2
Bill No. 9
Ironmongery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 10</u> <u>METALWORK</u> <u>STEEL BALUSTRADES</u> <u>GALVANISED STEEL BALUSTRADES</u> <u>Handrails</u> <u>Classic Satin finished grade 304 Stainless Steel:</u>				
1 65mm Diameter x 1.6mm thick steel section secured to 75 x 75 x 8mm four holed galvanised steel base plate with 16mm diameter rod including four M10 expansion bolts drilled into concrete stairs both ends of the handrail size 850mm set at angle	m	170		
2 Balustrade size 1000mm high formed of 38mm Diameter x 1.5mm tubular stanchions at 900mm centres fixed to 50mm diameter x 1.6mm tubular handrail at top with machine turned handrail holder with 16mm diameter x 50mm long pin and fitted at bottom with machine turned cover rings epoxy grouted into 80mm core drilled holes including 19mm stainless steel tubing fixed horizontally between stanchions at 175mm centres. As per Drawing no: DRPW/EL-13 001-2.01	m	11		
3 Extra over stainless steel plate for closing 50mm diameter ends	No	14		
<u>PRESSED STEEL DOOR FRAMES</u> <u>Standard galvanised 1,6mm tick frame with 30 x 48mm deep rebates fixed to brickwork with ten suitable lugs supplied with 1.5 pair of brass butt hinges</u>				
4 Frame for door 813 x 2032mm high	No	5		
5 Frame for door size 1800 x 2400mm high	No	2		
6 Frame for door size 1510 x 2400mm high	No	2		
Carried to Collection			R	
Section No. 2 Bill No. 10 Metalwork				

	Unit	Quantity	Rate	Amount
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>				
<u>Epoxy powder coated with polyester powder coating in colour RAL 7016 Anthracite Grey doors</u>				
7 Purpose made 1710 x 2420mm high hinged door and frame with two 950 x 1525mm fanlights, and two no. 950 x 940mm fanlights at bottom of door with 6.76mm smartglass intruderprufe clear laminated glass and plugged and screwed to brickwork fitted according to manufactur high penetration resistance intruder proof safety glass, hung to frame with hinges and ironmongery as per manufacturer's details (D05)	No	1		
<u>Powder coated windows including 12 x 12mm solid steel horizontal burgler bars fixed at openings in equal centres glazed with 6.76mm safety glass with permanent mark indicated installed to meet AAMSA standard in accordance to the manufacturer</u>				
8 Purpose made top hung window size 600 x 900mm high (W04)	No	13		
9 Purpose made top hung window size 1200 x 1200mm (W03)	No	3		
10 Purpose made top hund 1500 x 2420mm high window (W01)	No	1		
11 Purpose made top hung 950 x 2420mm high aluminium window (W02)	No	25		
12 Purpose made top hung 2000 x 1200mm high windows (W05)	No	8		
<u>STEEL GATES, SCREENS, ETC</u>				
<u>ALUMINIUM SHOPFRONTS (CPAP WORK GROUP NO. 149)</u>				
<u>Powder coated shopfronts as per drawing number 2107-A-8100 FA A complete with frame, sub frames, ironmongery, 6,76mm high penetration resistance intruder proof safety glass with prmanent mark installed to meet AAMSA standard, sealing, etc and fixing to brickwork or concrete to manufacturer's instructions</u>				
13 Purpose made 3700 x 2420mm (D01)	No	1		
Carried to Collection			R	
Section No. 2				
Bill No. 10				
Metalwork				

Welded steel gates

- 14 2320mm x 2400mm high purpose made M/S double security gate with fixed side panels with 38 x 38 x 2.5mm rectangular hollow section frame with 25 x 25 x 2.5mm intermediates @ 100mm centres including security dead lock with handle on both sides fixed to brickwork

Unit Quantity Rate Amount

No

1

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Section No. 2
Bill No. 10
Metalwork

BILL NO. 10
METALWORK
COLLECTION

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Section No. 2
Bill No. 10
Metalwork

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 11</u>				
<u>PLASTERING</u>				
<u>SCREEDS</u>				
<u>Screeds wood floated, on concrete</u>				
1 25mm Thick on floors and landings	m ²	621		
2 25mm Thick on narrow widths	m ²	18		
<u>INTERNAL PLASTER</u>				
<u>1:3 Cement plaster steel floated on brickwork</u>				
3 On walls	m ²	931		
4 On ceilings	m ²	315		
5 On narrow widths	m ²	7		
<u>EXTERNAL PLASTER</u>				
<u>1:4 Cement plaster steel floated, on brickwork</u>				
6 On walls	m ²	165		
7 On narrow widths	m ²	30		
Carried To Section Summary			R	
Section No. 2				
Bill No. 11				
Plastering				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 12</u>				
<u>TILING</u>				
<u>WALL TILING</u>				
<u>200 x 200mm x 6.2mm White glazed "A" grade tiles fixed with TAL tile adhesive and pointed with white waterproof grout</u>				
1 On walls	m ²	51		
2 On narrow widths	m ²	4		
<u>300 x 300mm Porcelain mosaic tiles fixed with TAL mosaic fix tile adhesive and pointed with white waterproof grout</u>				
3 On walls	m ²	7		
<u>FLOOR TILING</u>				
4 On narrow widths	m ²	2		
<u>3500 x 350mm thick matt finish Ceramic tiles fixed with TAL tile adhesive to screed and pointed with TAL light brown waterproof grout</u>				
5 On floors and landings	m ²	306		
6 Treads and risers of stairs	m	8		
<u>SUNDRIES</u>				
<u>38mm aluminium grey transition cover code: ACT380 M-Trim cover fitted into base</u>				
7 On doors	m	10		
<u>3mm grey aluminium straight edge trim</u>				
8 On tile edges	m	110		
9 Stairs	m	10		
<u>PVC round edge trims</u>				
10 Window cills	m	11		
Carried To Section Summary				R
Section No. 2				
Bill No. 12				
Tiling				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 13</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>SANITARY FITTINGS</u>				
<u>Vaal</u>				
1	White Pearl paraplegic vitreous china floor mounted washdown paraplegic suite white in colour (code: 7300SC) comprising semi close couple 90degrees outlet open rim washdown pan and matching 9litre cistern including lid, fitments and purpose-made chromium plated side flush lever, mounted on wall with white double flap heavy duty plastic seat with approved sealant between system and wall			
	No	2		
2	White Pearl vitreous china "Daisy" floor mounted washdown pan white in colour (code: 751400) comprising semi close couple 90degrees outlet open rim washdown pan and matching 9litre cistern (code:7116SC)including lid, fitments and purpose-made chromium plated side flush lever, with white double flap heavy duty plastic seat with approved sealant between system and wall			
	No	13		
3	600 x 385 x 380mm Lavatera white vitreous china wall mounted back inlet urinal (code:705427) including 38mm chromium plated domical grating (code:8787Z0) and chromium plated back inlet spreader (code: 7054Z2) flush valve and flush pipe and fittings in (Cobra FJ8.102) fixed on and including two hanger brackets (code: 8127Z0)			
	No	5		
4	550 x 400 x 270mm high white "Vaal springbok" or similar approved mounted basin 2th white boxed with two tap holes including overflow and chainstay (code:703101WH) with tube plugs and caps sealed with silicone sealant and semi concealed brackets			
	No	12		
<u>SANITARY PLUMBING</u>				
<u>uPVC soil and vent pipes</u>				
5	110mm Pipes			
	m	20		
6	40mm Pipes			
	m	24		
7	40mm Pipes chased into brickwork			
	m	20		
<u>Extra over uPVC soil and vent pipes for fittings</u>				
8	110mm Pan connector			
	No	15		
Carried to Collection			R	
Section No. 2				
Bill No. 13				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
9	110mm Bend	No	18		
10	40mm Bend	No	12		
11	40mm Junction	No	15		
12	110mm Access bend	No	15		
13	40mm Access bend	No	15		
14	110mm Access bend with anti-syphon horn	No	12		
	<u>Testing</u>				
15	Testing waste pipe system	Item			
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes with capillary couplings</u>				
16	22mm Pipes	m	20		
17	15mm Pipes	m	35		
18	15mm Pipes chased into brickwork including brown paper lagging	m	35		
	<u>Extra over Class 0 copper pipes for brass compression fittings</u>				
19	15mm Fittings	No	35		
20	22mm Fittings	No	3		
21	22x15mm Reducing elbow	No	3		
22	22 x15mm Reducing tee	No	3		
23	22 x15mm Reducing coupler	No	2		
	<u>UPVC pipes</u>				
	<u>"Mipla" pipes</u>				
24	40mm dia pipes	m	2		
25	32mm dia pipes	m	30		
26	26mm dia pipes	m	65		
27	20mm dia pipes	m	60		

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Section No. 2
Bill No. 13
Plumbing And Drainage

		Unit	Quantity	Rate	Amount
<u>RAINWATER DISPOSAL</u>					
<u>Gutter in black colour on both sides with matching splashplate including cut and mitred angles covered with a mitred strip externally, stop ends crimped and all sealed on the inside with silicone sealer secured with 25 x 2.5mm L-shaped hanger brackets at 600mm centres using 1 pop rivet to fibre cement fascias (elsewhere measured)</u>					
28	125 x 85mm Ogee roof gutters	m	130		
29	75mm x 50mm Diameter aluminium rainwater down pipes fixed to walls with aluminium holder bats at 900mm centres	No	22		
30	Extra over rainwater pipe for bend	No	8		
31	Extra over rainwater pipe for shoe	No	22		
32	Extra over rainwater pipe for eaves or plinth offset	No	22		
33	Extra over rainwater pipe for swan-neck	No	22		
<u>TAPS, VALVES, ETC</u>					
<u>Manufactured by "Cobra"</u>					
34	Cobra Watertech 0.5 inch chrome plated elbow action pillar tap (code:503-21B)	No	2		
35	0.5 inch chromium plated pillar taps with flanged back nuts (code:211-15) fixed to basin	No	0		
36	15mm x 15mm ITD chrome angle valve	No	32		
37	15mm stopcock	No	1		
38	22mm stopcock	No	1		
<u>TRAPS</u>					
39	40mm pair pillar traps, stay and backnuts	No	12		
40	40mm CP deep seal trap with 40mm PVC outlet	No	12		
<u>FIRE APPLIANCES</u>					
41	9kg D.C.P fire extinguisher including hardwood backing fixed to wall.	No	4		
42	30m Fire hose reel and nozzle including stopcock	No	4		
43	Fire signage	No	4		
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BILL NO. 13
PLUMBING AND DRAINAGE
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Section No. 2
Bill No. 13
Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 14</u>				
<u>PAINTWORK</u>				
<u>PAINT SPECIFICATIONS</u>				
<u>Painting, etc.</u>				
All painting shall be done in accordance with specifications unless otherwise described				
Timber surfaces shall be prepared by sanding surfaces smooth to acceptance by the Architect				
Plaster walls will be clean, free of contaminants, dry with 5% moisture content before paint application. Paint will be thinned by 20% Polycell Mineral Turpentine (code AXH 1) and allowed to dry for 24 and 72 hours between coats.				
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat approved undercoat and two coats approved eggshell white enamel paint</u>				
1 On walls	m ²	931		
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat approved undercoat and two coats approved eggshell white enamel paint</u>				
2 Walls	m ²	124		
<u>ON PLASTERBOARD SURFACES</u>				
<u>One coat approved undercoat and two coats approved eggshell white enamel paint</u>				
3 On dry walls	m ²	450		
<u>ON FIBRE-CEMENT BOARD SURFACES</u>				
<u>One coat universal under coat and two coats professional eggshell</u>				
4 Ceilings	m ²	225		
5 Ceiling bulkhead	m ²	235		
6 On window sills	m ²	6		
7 Barge boards	m	0		
8 Soffit board	m	151		
9 Gypsum coved cornice	m	200		
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Bill No. 14				
Paintwork				

		Unit	Quantity	Rate	Amount
	<u>ON METAL SURFACES</u>				
	<u>One coat zinc chromate primer and two coats of gloss enamel paint colour as per (DWG:2107-A-8300)</u>				
10	On door frames	m ²	3		
11	On internal side of door frames	m ²	12		
	<u>ON WOOD SURFACES</u>				
	<u>One coat universal under coat and two coats professional eggshell</u>				
12	Doors	m ²	51		
13	Skirtings, rails, etc not exceeding 300mm girth	m	212		

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Paintwork

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PAINTWORK
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Paintwork

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BUILDING WORKS

SECTION SUMMARY

Bill No.

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BUILDING WORKS

SECTION 3

EXTERNAL WORKS

SECTION NO. 3
EXTERNAL WORKS

SECTION NO. 3

EXTERNAL WORKS

BILL NO. 1

EXTERNAL WORKS

EARTHWORKS (PROVISIONAL)

Nature of ground

The following are typical examples of descriptions of nature of ground

The nature of the ground is assumed to be loose sandy material, therefore earth, but possibly interspersed with soft rock or hard rock

The nature of the ground is assumed to be gravel, therefore earth, but possibly interspersed with soft rock or hard rock

The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as earth, but possibly interspersed with hard rock

Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore earth

A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as earth. All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as hard rock

User note

The following are typical examples of descriptions of subterranean water

Subterranean water

No subterranean water is expected

Unit	Quantity	Rate	Amount
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	Unit	Quantity	Rate	Amount
<p>The water table is expected to vary between approximately ?m and ? m below natural ground level . The removal of subterranean water is given separately</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as 'G1', 'G2', etc and 'C1', 'C2', etc in descriptions of filling and layer work materials refer to corresponding references in the document 'Guidelines for Road Construction Materials. TRH 14 : 1985' compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>User note</u></p> <p>When no information regarding density and other tests is available the following preamble in respect of testing may be inserted</p> <p><u>Testing</u></p> <p>Prices for filling are to include for all necessary density and other tests</p> <p><u>DEMOLITIONS</u></p> <p>1 Concrete in existing walkways m² 69</p> <p>2 Remove existing edge beam and spoil to a dumping site loacted by contractor m 100</p> <p><u>LANDSCAPING</u></p> <p><u>Landscaping specification</u></p> <p>Refer to the landscape architect's specification annexed to these bills of quantities</p> <p><u>Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling</u></p> <p>3 In plant beds, grassed areas and holes for trees, shrubs, for landscaping etc Item</p> <p><u>RETAINING STRUCTURES</u></p> <p><u>Excavation in earth not exceeding 2m deep for retaining wall</u></p> <p>4 Trenches including exposing exisiting services m³ 72</p>				
Carried to Collection				R
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		Unit	Quantity	Rate	Amount
	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	150		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
6	Backfilling to trenches	m ³	28		
	<u>10MPa/19mm unreinforced concrete</u>				
7	Blinding under strip footings	m ³	2		
	<u>20MPa/19mm unreinforced concrete</u>				
8	Strip footings	m ³	9		
9	Apron cast in panels	m ³	11		
10	Surface bed cast in panels to walkways	m ³	23		
11	Ramps cast in panels	m ³	7		
12	Power float top of concrete surface bed to a smooth surface in one operation Ramps cast in panels	m ³	196		
	<u>UNREINFORCED CONCRETE</u>				
	<u>25MPa/19mm unreinforced concrete</u>				
13	V-drain channel	m ³	19		
14	Stairs	m ³	6		
	<u>BENCHES, TABLES, ETC</u>				
	<u>FORMWORK</u>				
15	Formwork to treads and risers of stairs	m ²	7		
16	Formwork to sloping soffits of stairs	m ²	4		
	<u>30MPa/19mm reinforced concrete</u>				
17	25Mpa/19mm stone unreinforced waiting concrete bench size 4500mm long fixed in position 450mm above floor level, including excavation, backfilling and formwork where applicable with steel floated finish	No	6		
	<u>EXTERNAL WORK</u>				
	<u>RETAINING BRICK WALL</u>				
	<u>Brickwork in Class II mortar</u>				
18	220mm one brick retaining wall in foundations	m ²	157		
19	220mm one brick retaining wall in superstructure	m ²	116		
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	Bill No. 1				
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		Unit	Quantity	Rate	Amount
	<u>FACE BRICK WORK</u>				
	<u>Corobrick "Ruby Light" face brick</u>				
20	Extra over brick work in foundations (Provisional)	m ²	118		
21	Extra over brick work in superstructure	m ²	116		
	<u>SUNDRIES</u>				
22	150mm brick reinforcement laid to walls horizontally	m	116		
23	Galvanised wire ties fixed to walls	No	670		
	<u>WATERPROOFING</u>				
24	250 Micron dpc waterproofing laying under concrete surface beds including turn-ups at walls	m ²	284		
	<u>ROADWORK, PARKING AREAS AND PAVING</u>				
	<u>User note</u>				
	Where SABS 1200 or SANS preambles are not applicable, refer to other suitable construction standards or provide full description				
	<u>Site clearance</u>				
25	Scarify surface of ground to a depth of 150 mm and compact to 93% Mod AASHTO density under surface beds	m ²	75		
	<u>Open face excavation in earth over sloping site</u>				
	<u>Extra over all excavations for carting away</u>				
26	Dig up and remove unsuitable material and spoil to a dumping site located by the contractor under parking area	m ³	335		
27	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	100		
	<u>Compaction of surfaces</u>				
28	Compact and rip roadbed etc, including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 93 % Mod AASHTO density	m ²	900		
29	Compaction of ground surfaces under buildings etc, including scarifying for a depth of 150 mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	1 150		
	Carried to Collection			R	
	Section No. 3				
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	External Works				

		Unit	Quantity	Rate	Amount
	<u>Filling supplied by the contractor under buildings etc</u>				
30	150mm Compacted thickness in-situ platform of G5 material compacted to 95% Mod AASHTO density under surface beds under parking areas	m³	140		
31	150mm Compacted thickness in-situ platform of G2 material compacted to 98% Mod AASHTO density under surface beds under parking areas	m³	135		
32	150mm Compacted thickness in-situ platform under buildings of G7 material compacted to 93% Mod AASHTO density under surface beds under parking areas	m³	400		
33	150mm Compacted thickness in-situ platform under buildings of G5 material compacted to 95% Mod AASHTO density under surface beds under parking areas	m³	105		
	<u>ROAD SURFACING</u>				
	<u>Bituminous premix road surfacing</u>				
34	13mm stone cape seal premix to roadways, etc including bitumin spray to base course	m²	900		
35	150 x 75mm new edge beam to kerbs etc	m	125		
	<u>Apply a prime coat to the top of the granular base course in preparation for the asphalt layer binder course to harden the base surface</u>				
36	Prime coat to parking surface area	m²	900		
	<u>Apply a task coat between layers of asphalt to prevent degrading of the road</u>				
37	Task coat to roads	m	900		
38	Barrier to roll over	m	30		
39	150mm dia barrier poles 1.8m long cast in concrete	No	50		
	<u>PAVING</u>				
	<u>50mm Thick interlocking block paving in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>				
40	Paving to sidewalks etc to falls , including necessary straight edge blocks	m²	62		
Carried to Collection				R	
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External Works					

	Unit	Quantity	Rate	Amount
<u>PAINTING</u>				
<u>Etching primer and two coats reflective road marking paint</u>				
41 On roads and parking	m ²	50		
<u>CONCRETE STORMWATER CHANNELS ETC</u>				
<u>SEWER 110MM DIA</u>				
42 Excavate in earth including backfilling 0-1m	m	45		
43 Excavate in earth including backfilling 1-2m	m	20		
44 Supply lay, joint, bed on Class B bedding (supply and lay) and test the following 110mm dia sewer pipes complete with couplings	m	65		
45 Imported bedding material	m ³	20		
<u>MANHOLE</u>				
46 Excavate, construct and cast 20Mpa/19mm stone base concrete and beching for brick manhole size 1360 X 1200mm with internal dimension of 900 x 720mm in strecher bond including wire ties with a finished wall plaster internally, with 150mm selected granular bedding Class B material and selected fill blanket including backfilling to prepare for pipe laying of 110mm dia sewer pipe including supply, transport and installation of manhole covers and frames Type 8A medium duty and double seal as per SANS 558:2009 (as per DWD No:T1200/15)	No	4		
47 Connect new manhole into existing connection	Item			
48 Supply and fit rodding eye and fittings and stacking	Item			
49 Extra over excavation for hard rock	m ³	2		
<u>WATER CONNECTION</u>				
50 Excavate in earth and backfill 0-1m pipes up to 90mm dia	m	140		
51 Lay imported bedding material obtained by the contractor to trench	m ³	20		
52 Supply, lay and bed 90mm dia Upvc Class 16 pipe	m	60		
53 Supply, lay and bed 40mm dia HDPE Class 16 pipe	m	80		
<u>ISOLATION VALVES IN CHAMBER</u>				
54 90mm dia valves	No	2		
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External Works				

		Unit	Quantity	Rate	Amount
55	40mm dia valves	No	2		
	<u>ANCHOR THRUST BLOCKS AND PEDESTALS</u>				
56	20Mpa/ 19mm stone concrete anchor thrust block including formwork	No	1		
	<u>FITTINGS, ETC</u>				
57	90 degrees 90mm dia Class 16	No	1		
58	40mm dia GMS including all fittings	m	5		
	<u>VALVES AND HYDRANT CHAMBERS</u>				
59	Remove existing fire hydrants and install new FH as per detail to existing line	No	6		
60	Install Fire Hydrant to 90mm dia HDPE as per details	No	1		
	<u>BALUSTRADING</u>				
	<u>Classic Satin finished grade 304 Stainless Steel:</u>				
61	65mm Diameter x 1.6mm thick steel section secured to 75 x 75 x 8mm four holed galvanised steel base plate with 16mm diameter rod including four M10 expansion bolts drilled into concrete stairs both ends of the handrail size 850mm set at angle	m	170		
62	Balustrade size 1000mm high formed of 38mm Diameter x 1.5mm tubular stanchions at 900mm centres fixed to 50mm diameter x 1.6mm tubular handrail at top with machine turned handrail holder with 16mm diameter x 50mm long pin and fitted at bottom with with machine turned cover rings epoxy grouted into 80mm core drilled holes including 19mm stainless steel tubing fixed horizontally between stanchions at 175mm centres. As per Drawing no: DRPW/EL-13 001-2.01	m	11		
63	Extra over stainless steel plate for closing 50mm diameter ends	m	14		
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BILL NO. 1
EXTERNAL WORKS
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1 EXTERNAL WORKS

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SECTION 4 ELECTRICAL INSTALLATION

SECTION NO. 4
ELECTRICAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>ELECTRICAL WORKS</u> <u>BILL NO. 1</u> <u>ELECTRICAL WORK</u> <u>ELECTRICAL INSTALLATION</u> <u>SCHEDULE 1 : SWITCHBOARDS</u> <u>Distribution Boards</u> <u>Supply, delivery and installation of switchboards mounted as specified including all fixing materials and switchgear. All to SANS1 0142 and IEC 439-1. See single line diagrams for details</u>				
1 DB-LH		0		
2 Supply	No	1		
3 Install	No	1		
4 Issue compliance certificate (COC)	No	1		
5 KIOSK		0		
6 Supply	No	1		
7 Install	No	1		
8 Issue compliance certificate (COC)	No	1		
<u>SCHEDULE 2 : LV CABLES</u> <u>Cables</u> <u>Supply, delivery and installation of PVC SWA PVC 600/1000V Cables to SANS 1507-3 including all fastening materials glands shrouds, lugs and insulating materials. Cables to have stranded copper conductors.</u>				
9 4 - Core 50mm ² laid in trench and fixed surface on walls and in ceilings (excluding trenching)		0		
10 Supply	m	200		
11 Install	m	200		
12 Terminate		0		
13 3 - Core 4mm ² laid in trench and fixed surface on walls and in ceilings (excluding trenching)		0		
14 Supply	m	10		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Electrical Work				

		Unit	Quantity	Rate	Amount
15	Install	m	10		
16	Terminate		0		
	<u>Bare Copper Earthwire</u>				
	<u>Supply and installation of bare stranded copper earthwire alongside cables including accessories and terminations</u>				
17	25mm2 BCEW		0		
18	Supply	m	200		
19	Install	m	200		
20	Terminate		0		
	<u>Trenching</u>				
21	Trenching and backfilling in compacted layers 600wide X 600deep including bedding, and warning tape 300mm above cable		0		
22	soft hand pickable soil	m	120		
23	soil requiring pneumatic tools and aids	m	80		
24	hard rock requiring dynamite or similar aids	m	10		
25	Cable markers as specified complete with legend plate		0		
26	Supply	No	8		
27	Install	No	8		
	<u>Sleeves</u>				
	<u>Supply and installation of Kableflex sleeve including slow bends, installed in a trench (measured elsewhere)</u>				
28	110dia Kableflex sleeves		0		
29	Supply	m	80		
30	Install	m	80		
31	75dia Kableflex sleeves		0		
32	Supply	m	20		
33	Install	m	20		
34	Danger tape		0		
35	Supply	m	100		

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Section No. 4
Bill No. 1
Electrical Work

		Unit	Quantity	Rate	Amount
36	Install	m	100		
<u>SCHEDULE 3 : INTERNAL WIRING</u>					
<u>Light Switches</u>					
<u>Light Switches surface or chased into brickwork and including conduit outlet box & connecting of circuit wiring</u>					
37	Single lever one way		0		
38	Supply	No	5		
39	Install	No	5		
40	Two lever 2-way		0		
41	Supply	No	4		
42	Install	No	4		
43	Single Lever rotary weatherproof		0		
44	Supply	No	1		
45	Install	No	1		
<u>Socket Outlets</u>					
<u>5A Unswitched socket outlet for airconditioning units and light fittings</u>					
46	Supply	No	123		
47	Install	No	123		
<u>16 amp Switched Socket Outlets fixed surface or chased into brickwork incl. Outlet boxes</u>					
48	Single socket - Normal Earth Pin		0		
49	Supply	No	2		
50	Install	No	2		
<u>Double Socket - Normal Earth Pin</u>					
51	Supply	No	16		
52	Install	No	16		
<u>Single Socket - Shaved Earth Pin</u>					
53	Supply		0		
54	Install		0		

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Electrical Work

		Unit	Quantity	Rate	Amount
	<u>2 x 16 amp Switched Socket Outlets pop-up floor boxes. Outlet boxes</u>				
55	Single socket - Normal Earth Pin		0		
56	Supply	No	20		
57	Install	No	20		
	<u>Power Skirting</u>				
	<u>Supply and Installation of 2 Channel P801 PVC power skirting complete with covers, bends, splices and fixing materials</u>				
58	Supply	m	25		
59	Install	m	25		
	<u>16 amp Switched Socket Outlets in power skirting including covers and fixing materials</u>				
60	Single Socket - Normal Earth Pin		0		
61	Supply	No	18		
62	Install	No	18		
	<u>Single Socket - Shaved Earth Pin</u>				
63	Supply	No	18		
64	Install	No	18		
	<u>Single Socket - 3-pin Euro-type</u>				
65	Supply	No	18		
66	Install	No	18		
	<u>Copper Conductors</u>				
	<u>PVC insulated and/or bare stranded copper conductor drawn into wireways including lugs and fixing materials</u>				
67	1.5mm sq. conductor		0		
68	Supply	m	4 200		
69	Install	m	4 200		
	<u>2.5mm sq. conductor</u>				
70	Supply	m	5 400		
71	Install	m	5 400		

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		Unit	Quantity	Rate	Amount
	<u>4mm sq. conductor</u>				
72	Supply	m	500		
73	Install	m	500		
	<u>2.5mm sq. bare conductor</u>				
74	Supply	m	4 800		
75	Install	m	4 800		
	<u>4.0mm sq. bare conductor</u>				
76	Supply	m	250		
77	Install	m	250		
	<u>Isolators</u>				
	<u>Isolators fixed surface or chased into brickwork including conduit or back box</u>				
78	20A DP isolator		0		
79	Supply		0		
80	Install	No	4		
	<u>20A TP isolator - Weatherproof</u>				
81	Supply	No	2		
82	Install	No	2		
	<u>Hand Dryers</u>				
	<u>Supply and Installation 1.4kW hand dryer, brushed stainless steel, SABS approved, including all connections and accessories for wall mounting.</u>				
83	Supply	No	2		
84	Install	No	2		
	<u>SCHEDULE 4 : LUMINAIRES AND LAMPS</u>				
85	Luminaires		0		
	<u>Supply, delivery, installation and connection of luminaires as specified in Part 4 including lamps and all fixing material.</u>				
	<u>Refer to the Light Fitting Schedule and Specifications for details.</u>				
	<u>Type PL - light fitting(black trim)</u>				
86	Supply	No	14		
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		Unit	Quantity	Rate	Amount
87	Install	No	14		
	<u>Type PL1 - light fitting(White Trim)</u>				
88	Supply	No	1		
89	Install	No	1		
	<u>Type DR (1200mm X 600mm) - light fitting</u>				
90	Supply	No	39		
91	Install	No	39		
	<u>Type DR (600mm X 600mm) - light fitting</u>				
92	Supply	No	2		
93	Install	No	2		
	<u>Type D - light fitting</u>				
94	Supply	No	78		
95	Install	No	78		
	<u>Type EXIT - LED Emergency Exit Sign: Single-sided wall mounted, with 1hr battery backup. Equal or Similar to Beka Lisu-P.</u>				
96	Supply	No	4		
97	Install	No	4		
	<u>Occupancy Sensors</u>				
	<u>Supply, delivery, installation and connection of integrated PIR Occupancy Sensors. Flush or surface mounted Low Profile, IP55 rated, 10A load rating, switching with manual adjusted lux level sensing and time delay sensing, as per specification.</u>				
	<u>360° PIR Presence Detectors</u>				
98	Supply	No	6		
99	Install	No	6		
100	Commissioning and Programming of all installed occupancy sensors with commissioning handset.		0		
101	Supply & Install	Lump Sum			
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Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<u>Photo Cell</u>				
	<u>Royce Thompson Photocell (daylight sensitive)</u>				
	<u>switch fixed to walls for switching of external</u>				
	<u>lighting (Waco housing)</u>				
102	Supply	No	2		
103	Install	No	2		
	<u>SCHEDULE 5 : WIREWAYS</u>				
	<u>Trunking and trays</u>				
	<u>Trunking and trays as specified including covers, all</u>				
	<u>accessories and fixing materials.</u>				
	<u>Trunking and trays to be suspended from steel</u>				
	<u>trusses or concrete slab. Prices to include hangers</u>				
	<u>and suspension accessories.</u>				
104	300 x 300 Draw tray and cover mounted in ceiling		0		
105	Supply	No	2		
106	Install	No	2		
107	P9000 trunking and cover chased in brickwork or fixed in ceiling, including bends, tees, splices, end caps, hangers and fixing		0		
108	Supply		0		
109	Install	m	10		
110	150 wide heavy duty return flange cable tray (RFHD) including, bends, tees, splices, bolts, nuts, washers, hangers and fixing (for data & telecom)	m	10		
	<u>Supply</u>				
111	Supply	m	65		
112	Install	m	65		
	<u>Electrical Conduits</u>				
	<u>Internal wiring system including all fixing materials</u>				
	<u>and accessories to complete the Works to the</u>				
	<u>standards specified elsewhere in this document</u>				
	<u>PVC Conduit fixed surface or chased into brickwork</u>				
	<u>including accessories & wastage excl. boxes</u>				
113	20mm diameter conduit		0		
114	Supply	m	3 500		
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		Unit	Quantity	Rate	Amount
115	Install	m	3 500		
116	25mm diameter conduit		0		
117	Supply	m	1 500		
118	Install	m	1 500		
	<u>Electrical Conduit Boxes</u>				
	<u>Galvanised Steel Conduit Boxes chased into brickwork</u>				
119	100 x 50 switch boxes		0		
120	Supply	No	1		
121	Install	No	1		
122	100 x 100 plugs boxes		0		
123	Supply	No	1		
124	Install	No	1		
	<u>PVC Round Conduit Boxes</u>				
125	1 & 2- way		0		
126	Supply	No	120		
127	Install	No	120		
	<u>3 & 4- way</u>				
128	Supply	No	120		
129	Install	No	120		
	<u>Fire Detection Wireways</u>				
	<u>Internal wiring system including all fixing materials and accessories to complete the Works to the standards specified elsewhere in this document</u>				
	<u>25mm diameter Galvanised Bosal Conduit</u>				
130	Supply	m	500		
131	Install	m	500		
	<u>Galvanised Bosal Conduit boxes fixed surface or chased into brickwork</u>				
	<u>100 x 50 conduit box</u>				
132	Supply	No	2		
133	Install	No	2		

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		Unit	Quantity	Rate	Amount
	<u>100 x 100 conduit box</u>				
134	Supply	No	2		
135	Install	No	2		
	<u>Round conduit box (1-way & 2-way)</u>				
136	Supply	No	30		
137	Install	No	30		
	<u>Round conduit box (2-way & 3-way)</u>				
138	Supply	No	10		
139	Install	No	10		
	<u>75 x 75 conduit box (for Break Glass Unit/AC Remotes)</u>				
140	Supply	No	20		
141	Install	No	20		
	<u>1mm diameter draw wire</u>				
142	Supply	m	100		
143	Install	m	100		
	<u>600 x 600 Flush telephone/ comms board with architrave, door and soft timber backing</u>				
144	Supply	No	1		
145	Install	No	1		
	<u>SCHEDULE 6 : LIGHTNING PROTECTION</u>				
	<u>To supply, deliver and install Lightning Protection system to SANS 10313 & 62305. The prices are to be priced nett and shall include for profit and attendance on the Specialist LPS Sub-Contract.</u>				
	<u>8mm diameter solid Round Aluminium Down Conductor fitted inside down conduits</u>				
146	Supply	m	72		
147	Install	m	72		
	<u>20mm dia.PVC conduit chased into brick wall or inside wall cavity</u>				
148	Supply	m	72		
149	Install	m	72		

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		Unit	Quantity	Rate	Amount
	<u>50mm2 PVC Cu Cable Tail Piece in Conduit as Test Joints</u>				
150	Supply	m	36		
151	Install	m	36		
	<u>Earth Joints - with Heavy Duty Brass Earth Spike Clamps</u>				
152	Supply	No	18		
153	Install	No	18		
154	Roof Joints		0		
155	Supply	No	18		
156	Install	No	18		
	<u>1.8m SABS "A" Grade 16mm Dia. Earth Spikes</u>				
157	Supply	No	18		
158	Install	No	18		
	<u>Mechanical Joints using Bi-Metal Crimps Lugs and S/Steel 8 x 20 Bolts and Nuts</u>				
159	Supply	No	18		
160	Install	No	18		
	<u>80 x 80 x 60mm (depth) PVC Screw Lid Test box UT1, flush mounted into brick wall</u>				
161	Supply	No	18		
162	Install	No	18		
	<u>Undertake Resistivity & Resistance Test of building</u>				
163	Install	Lump Sum			
	<u>NOTE: The gutters and down pipes are aluminium and NO copper to aluminium joints are to be made.</u>				
	<u>Bare Stranded Copper Earth Wire Ring</u>				
	<u>Supply and install Bare Stranded Copper wires in trenches for Ring Earth including termination for Equipotential Bonding strictly in accordance with the relevant SANS & IEC Specifications</u>				
	<u>50mm2 copper cable</u>				
164	Supply	m	36		
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		Unit	Quantity	Rate	Amount
165	Install	m	36		
166	Terminate		0		
	<u>Earth Bonding</u>				
	<u>Bonding of all exposed conductive parts, including main water pipes, and other metallic items such as downpipes, with 12 x 1.6mm earth strap. The whole installation must be earthed in accordance with SANS 10142</u>				
167	Supply & Install	Lump Sum			
	<u>Testing and Commissioning (Lightning Protection)</u>				
	<u>Testing and commissioning of the complete installation and issue a Lightning Protection COC</u>				
168	Supply & Install	Lump Sum			
	<u>SCHEDULE 7 : UNITERRUPTIBLE POWER SUPPLY</u>				
	<u>Uninterruptible Power Supply</u>				
	<u>Supply, delivery, installation and connection of a UPS with battery backup, as specified. Including testing and commissioning.</u>				
169	5kVA UPS unit (3-phase in and 3-phase out) with 30 minutes at full load backup, complete with external battery bank. Equal or Similar to APC Galaxy 300.		1		
170	Supply	No	1		
171	Install	No	1		
	<u>SCHEDULE 8 : COMMISSIONING</u>				
	<u>Staff Training</u>				
	<u>Training staff on the operation and daily maintenance of equipment supplied and installed under this contract</u>				
172	Supply & Install	Lump Sum			
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SECTION 5

FIRE DETECTION

SECTION NO. 5
FIRE DETECTION

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u> <u>FIRE DETECTION</u> <u>BILL NO. 1</u> <u>MECHANICAL WORK</u> <u>FIRE DETECTION</u> <u>SCHEDULE 2 : FIRE DETECTION INSTALLATION</u> <u>Supply, installation and commissioning of analogue addressable fire detection system including all cabling, devices and connections as listed.</u>				
1 Two loop Control Panel (Surface mounted)	No	1		
2 Battery back up systems	No	1		
3 Optical/Smoke detectors	No	14		
4 Detector bases	No	30		
5 Optical detector with extended light (Ceiling void)	No	8		
6 Addressable loop powered combination smoke, strobe and siren unit	No	2		
7 Addressable loop powered combination strobe and siren unit	No	4		
8 Relay (interface)	No	2		
9 Red strobe lights	No	4		
10 Breakglass Units	No	4		
11 PH30 Fire cable	m	362		
12 25mm galvanised sprague	m	15		
13 Line isolator and base	No	2		
14 Screwed dome lids for conduit boxes	No	30		
15 25mm galvanised conduit	m	362		
16 Test & Commission	Lump Sum			
17 Training staff on the operation and daily maintenance of equipment supplied and installed under this contract	Lump Sum			
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Bill No. 1				
Mechanical Work				

		Unit	Quantity	Rate	Amount
18	Operational & Maintenance manual x 3 copies plus electronic	Lump Sum			
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Mechanical Work					

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SECTION 6

MECHANICAL INSTALLATION

HEATING, VENTILATION, AIR CONDITIONING AND HOT WATER GENERATION INSTALLATION

SECTION NO. 6

HVAC

	Unit	Quantity	Rate	Amount
SECTION NO. 6				
HVAC				
BILL NO. 1				
MECHANICAL WORK				
HEATING, VENTILATION AND AIR CONDITIONING INSTALLATION				
System				
<u>Indoor Unit- Supply and install complete as specified including all fixtures and fittings, control panels, auxiliaries and ancillaries. Four way cassette units and ducted hide away units.</u>				
<u>The tender price shall include for the equipment specified below as well as all branch controllers, refrigerant piping, refnet joints, auxiliary and ancillary equipment etc. for the system to operate as specified.</u>				
<u>Refrigerant pipe runs shall generally follow the routes shown on the drawings. Also the routes can be diverted where we have obstacles in the pre-designed path.</u>				
<u>Outdoor Unit- Supply and install complete as specified including all fixtures and fittings, auxiliaries and ancillaries and refrigerant for entire system and hail guards. Note the total outdoor load includes the fresh air system load.</u>				
1	22kW Condenser Unit with bluchem coating on condenser coil	No	2	
<u>Indoor Unit- Supply and install complete as specified including all fixtures and fittings, control panels, auxiliaries and ancillaries. Ducted hideaway type unit</u>				
2	11kW (250mm Height)	No	4	
<u>Split Inverter type unit supply and install complete as specified including all fixtures and fittings, control panels, auxiliaries and ancillaries.</u>				
3	3.5kW Ceiling Cassette split type unit (600x600mm) with bluchem coating on condenser coil	No	1	
4	2.7kW Ceiling Cassette split type unit (600x600mm) with bluchem coating on condenser coil	No	1	
5	2.7kW Midwall type unit with bluchem coating on condenser coil and infrared remote control	No	1	
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Mechanical Work				

		Unit	Quantity	Rate	Amount
	<u>Multi Split Inverter type unit complete as specified including all fixtures and fittings, control panels, auxiliaries and ancillaries.</u>				
6	2 x 10 kW Ceiling Cassettes (600x600mm) connected to a 20kW Condenser unit with bluchem coating on condenser coil	Lump Sum			
	<u>Medium duty galvanised, perforated cable tray complete with fittings and hangers to manufacturer's specifications</u>				
7	150mm wide	m	100		
8	Wall wired remotes with connecting wire	No	8		
	<u>Condensate drains including all fittings and fixtures</u>				
9	25mm Condensate Drain Pipe	m	30		
10	32mm Condensate Drain Pipe	m	30		
	<u>Ducted Hideaway Unit (DHA1)</u>				
11	400x250 Weather louvre complete with filter media	No	2		
12	1200x600 RAFF type return air grille	No	1		
13	1200x600 Plenum Box	No	1		
	<u>Transition Pieces</u>				
14	Hideaway unit to 400x400	No	1		
15	400x400 to 350x350	No	1		
16	350x350 to 250x250	No	1		
	<u>Ducting</u>				
17	400x400	m	6		
18	400x250	m	6		
19	350x350	m	6		
20	250x250	m	4		
21	250mm diameter	m	10		
22	200mm diameter flexible ducting	m	5		
23	400x250 mm butterfly damper	No	2		
24	600x600 drop-in ceiling type diffuser with 250 diameter	No	5		
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	Mechanical Work				

		Unit	Quantity	Rate	Amount
	<u>Ducted Hideaway Unit (DHA2)</u>				
25	400x250 Weather louvre complete with filter media	No	2		
26	1200x600 RAFF type return air grille	No	1		
27	1200x600 Plenum Box	No	1		
	<u>Transition Pieces</u>				
28	Hideaway unit to 400x400	No	1		
29	400x400 to 350x350	No	1		
30	350x350 to 250x250	No	1		
	<u>Ducting</u>				
31	400x400	m	6		
32	350x350	m	6		
33	250x250	m	4		
34	250mm diameter	m	10		
35	200mm diameter flexible ducting	m	5		
36	400x250 mm butterfly damper	No	2		
37	600x600 drop-in ceiling type diffuser with 250 diameter	No	5		
	<u>Ducted Hideaway Unit (DHA3)</u>				
38	400x250 Weather louvre complete with filter media	No	2		
39	1200x600 RAFF type return air grille	No	1		
40	1200x600 Plenum Box	No	1		
	<u>Transition Pieces</u>				
41	Hideaway unit to 400x400	No	1		
42	400x400 to 350x350	No	1		
43	350x350 to 250x250	No	1		
	<u>Ducting</u>				
44	400x400	m	6		
45	400x250	m	6		
46	350x350	m	6		
47	250x250	m	4		
48	250mm diameter	m	10		

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Mechanical Work

		Unit	Quantity	Rate	Amount
49	200mm diameter flexible ducting	m	5		
50	400x250 mm butterfly damper	No	2		
51	600x600drop-in ceiling type diffuser with 250 diameter	No	5		
	<u>Ducted Hideaway Unit (DHA4)</u>				
52	400x250 Weather louvre complete with filter media	No	1		
53	1200x600 RAFF type return air grille	No	1		
54	1200x600 Plenum Box		0		
55	Transition Pieces	No	1		
56	Hideaway unit to 400x400	No	1		
57	400x400 to 350x350	No	1		
58	350x350 to 250x250		0		
59	Ducting	m	6		
60	400x400	m	6		
61	400x250	m	6		
62	350x350	m	4		
63	250x250	m	5		
64	250mm diameter	m	5		
65	200mm diameter flexible ducting		0		
66	400x250 mm butterfly damper		0		
67	600x600drop-in ceiling type diffuser with 250 diameter		0		
	<u>Fan System F1</u>				
68	Fan System F1, 200 diameter 180l/s @120 Pa complete with downstream and upstream sound attenuator	No	1		
69	300x250 Weathe Louvre complete with filter media	No	1		
	<u>Transition Pieces</u>				
70	300x250 weather louvre to sound attenuator	No	1		
71	Sound attenuator to 250x250 bend	No	1		
72	250x250 duct to150x150 duct	No	1		
	<u>Ducting</u>				
73	250x250	m	12		

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Section No. 6
Bill No. 1
Mechanical Work

		Unit	Quantity	Rate	Amount
74	150x150	m	10		
75	150 diameter	m	12		
76	150mm diameter flexible	m	6		
77	150 diameter supply disc valves	No	6		
78	150mm diameter butterfly damper	No	5		
79	100 diameter	m	4		
80	100mm diameter butterfly damper	No	2		
81	100mm diameter flexible	m	2		
	<u>Fan System F2</u>				
82	Fan System F2, 250 diameter 225l/s @100 Pa complete with downstream and upstream sound attenuator.	No	1		
83	300x250 Weathe Louvre	No	1		
84	Transition Pieces		0		
85	300x250 weather louvre to sound attenuator	No	1		
86	Sound attenuator to 250x250	No	1		
	<u>Ducting</u>				
87	250x250	m	6		
88	150mm diameter	m	15		
89	150mm diameter flexible ducting	m	6		
90	Exhaust Disc Valves	No	7		
91	150mm diameter bend	No	2		
	<u>Fan System F3</u>				
92	Fan System F3, 315 diameter 315l/s @120 Pa complete with downstream and upstream sound attenuator.	No	1		
93	400x250 Weathe Louvre	No	1		
	<u>Transition Pieces</u>				
94	400x250 weather louvre to sound attenuator	No	1		
95	Sound attenuator to 300x300	No	1		
	<u>Ducting</u>				
96	250x350	m	6		

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		Unit	Quantity	Rate	Amount
97	150mm diameter	m	16		
98	150mm diameter flexible ducting	m	6		
99	Exhaust Disc Valves	No	10		
100	150mm diameter bend	No	2		

AC GAS PIPING AND FITTINGS

In the event gas piping measured under system section is insufficient, the following rates shall apply for measuring extra over quantities. Supply and install air conditioning gas piping and fittings for R410A or R-32 system. Copper piping to be Grade K

101	1/4" ø6.35mm copper piping	m	20		
102	3/8" ø9.52mm copper piping	m	20		
103	1/2" ø12.7mm copper piping	m	20		
104	5/8" ø15.88mm copper piping	m	20		
105	3/4" ø19.05mm copper piping	m	20		
106	1.1/6" ø22.2mm copper piping	m	20		
107	1.63" ø28.58mm copper piping	m	20		
108	1.38" ø34.93mm copper piping	m	20		
109	2.1/4" ø41.28mm copper piping	m	20		

Gas piping insulation for pipes listed below

110	ø6.35mm	m	20		
111	ø9.52mm	m	20		
112	ø12.7mm	m	20		
113	ø15.88mm	m	20		
114	ø19.05mm	m	20		
115	ø22.2mm	m	20		
116	ø28.58mm	m	20		
117	ø34.93mm	m	20		
118	ø41.28mm	m	20		

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		Unit	Quantity	Rate	Amount
<u>DAY WORKS RATES</u>					
<u>Dayworks for unforeseen items to be approved by the Engineer prior to implementation</u>					
119	Qualified Artisan	Hrs	40		
120	Semi-skilled labourer	Hrs	80		
121	Labourer	Hrs	160		
122	Cost of transport and plant including for overheads, levies, fuel operators, insurance and supervision		0		
123	1 ton LDV	km	26		
124	5 ton truck	km	130		
125	Compactor	Hrs	5		
126	Commissioning	Lump Sum			
127	Training staff on the operation and daily maintenance of equipment supplied and installed under this contract	Lump Sum			
128	Operational & Maintenance Manuals x3 copies plus electronic	Lump Sum			
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HVAC

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SECTION 7

COMMUNICATION INSTALLATION

SECTION NO. 7
COMMUNICATION INSTALLATION

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 7</u>					
<u>COMMUNICATION INSTALLATION</u>					
<u>BILL NO. 1</u>					
<u>ELECTRICAL WORK</u>					
<u>COMMUNICATION INSTALLATION</u>					
<u>PART B: ICT AND IP TELEPHONE SYSTEMS</u>					
<u>Network</u>					
<u>Supply, delivery, installation and connection of data network infrastructure as specified including 12 month, maintenance & warranty. All data cables are to be terminated with connectors & boots and/or to LAN access points on power skirting.</u>					
<u>Cat6 UTP Network Cable, drawn into power skirtings, conduits and wireways.</u>					
1	Supply	m	300		
2	Install	m	300		
<u>RJ45 Connectors & Boots, installed onto Cat6 network cable.</u>					
3	Supply	No	15		
4	Install	No	15		
<u>1m Cat6 Patch Lead. Terminated with cat6 RJ45 connectors & boots on both ends.</u>					
5	Supply	No	20		
6	Install	No	20		
<u>3m Cat6 Patch Lead. Terminated with cat6 RJ45 connectors & boots on both ends.</u>					
7	Supply	No	2		
8	Install	No	2		
<u>24-Port Patch Panel</u>					
9	Supply	No	2		
10	Install	No	2		
<u>24-Port PoE Switch</u>					
11	Supply	No	2		
12	Install	No	2		
Carried to Collection				R	
Section No. 7					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<u>1U-Brush Panel long base</u>				
13	Supply	No	2		
14	Install	No	2		
	<u>12U wall mount cabinet 800mm deep with glass door, lock and removable side panels. Including 1x5 way PDU and 1x fans low noise</u>				
15	Supply	No	1		
16	Install	No	1		
	<u>Termination of Cat6 UTP Network Cable onto power skirting mounted RJ45 Data socket outlet (installed by other).</u>				
17	Install	No	13		
	<u>Wireless access points</u>				
18	Supply	No	4		
19	Install	No	4		
	<u>Fiber Optic Cable</u>				
	<u>Supply, delivery, installation and connection of fiber optic cable for connection of switches to the server room. Including installation with relevant pulling equipment and termination and connectors.</u>				
	<u>Supply, delivery, installation and connection of fiber optic cable for connection of switches to the server room.</u>				
20	Supply	m	50		
21	Install	m	50		
22	Termination	No	2		
	<u>Provision of 4 Core multimode 50/125u HDD fiber optic cable from cabinet to cabinet room. pig tails, mid couplers, Gbic(sfp)connectors X2, ST-LC fibre patch leads, Fibre X2.</u>				
23	Supply	m	10		
24	Install	m	10		
25	Termination	No	2		
Carried to Collection				R	
Section No. 7					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<u>External connection point. Linking the existing building with the new building.</u>				
39	Supply	No	1		
40	Install	No	1		
	<u>Testing and Commissioning</u>				
41	Test and Commission	Lump Sum			
	<u>Record Drawings</u>				
42	Supply Record Drawings	Lump Sum			
43	Staff Training	Lump Sum			
	<u>Operating and Maintenance Manual</u>				
44	Supply 3 hard copies & 1 electronic	Lump Sum			
	<u>Guarantee</u>				
45	12 Months	Lump Sum			
	<u>SCHEDULE 3 : DAYWORKS</u>				
	<u>These provisional sums may be utilised in full or in part. No expenditure will be allowed without the authority of the Engineer in writing.</u>				
	<u>Dayworks (Provisional)</u>				
	<u>Cost of labour including for overheads, levies, leave pay, bonuses etc.</u>				
46	Electrician	Hrs	9		
47	Semi-skilled labourer	Hrs	4		
48	Unskilled labourer	Hrs	2		
49	Cost of transport and plant including for overheads, levies, fuel operators, insurance and supervision		0		
50	1 ton LDV	km	500		
51	5 ton truck	km	300		
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	Electrical Work				

		Unit	Quantity	Rate	Amount
52	Compactor	Hrs	48		
	<u>SCHEDULE 4 : AUDIO VISUALS</u>				
	<u>This solution is for both 50 seater lecture rooms</u>				
53	Lectern-Solution including cordless mics		0		
54	Camera solution for streaming		0		
55	65" LED interactive touch screen		0		
56	wall mounted speaker soundbar		0		
57	PC with keyboard and monitor: Intel boxed core i5 3rd generation K-series processor with intel HD graphics		0		
58	Software windows 10 licencing		0		
59	Visualizer presenter delux		0		
60	Wall mounted bracket for touch screen		0		
61	Lindy 10m HDMI-HDMI VR2 cable		0		
62	Clyclone 5m 2 RCA-mini stereo cable		0		
63	Fastenings and fittings		0		
64	Installation and testing		0		
65	Training staff on the operation and daily maintenance of equipment supplied and installed under this contract	Lump Sum			
	<u>PRICE SUMMARY: COMMUNICATION INSTALLATION</u>				
	<u>Each item in the schedule must be filled in.</u>				
	<u>Each price entered hereunder shall include the supply, inclusive of any taxes, (other than VAT) and duties applicable, installation, testing, commissioning, guarantee (with free maintenance during the guarantee period), and profit.</u>				
	<u>Network</u>				
	<u>IP Telephone System</u>				
	<u>Dayworks</u>				
	<u>Audio Visuals</u>				
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BILL NO. 1
ELECTRICAL WORK
COLLECTION

Amount

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SECTION NO. 7

COMMUNICATION INSTALLATION

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ADD: CONTINGENCIES

Allow the 10% Contingency Amount

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

Carried to Tender

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