
PROVINCE OF THE NORTHERN CAPE



the dr&pw

Department:
Roads and Public Works
NORTHERN CAPE PROVINCE
REPUBLIC OF SOUTH AFRICA

**PROCUREMENT
DOCUMENTS FOR
CONSTRUCTION OF GALESHEWE LIBRARY
FOR
DEPARTMENT OF SPORT,
ARTS & CULTURE
IN
NORTHERN CAPE**

ARCHITECTS & PRINCIPAL AGENTS

NALKO ENGINEERING AND PROJECTS
89 PROFIT STREET
NORTHGATE
2169

QUANTITY SURVEYORS

KVS AND ASSOCIATES
234 GLOVER AVENUE
WATERFORD COURT
LYTTELTON
0157

CIVIL & STRUCTURAL ENGINEERS

KING AND ASSOCIATES
63 SMIT AVENUE
FLAMWOOD
KLEKSDORP
2571

**ELECTRICAL & MECHANICAL
ENGINEERS**

ZCES CONSULTANTS
33 RHONA CLOSE
NORTHVIEW
KIMBERLEY
8300

DEPARTMENT OF ROADS & PUBLIC WORKS

TEBOGO LEON TUME COMPLEX
9-11 STOCKROOS STREET
SQUARE HILL PARK
KIMBERLEY
8301

BID NR: DRPW 008/2023

CLOSING DATE: As per Advert

CLOSING TIME: As per Advert

REFERENCED INDEX TO PARTS OTHER THAN BILLS OF QUANTITIES

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FORM OF OFFER AND ACCEPTANCE

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FORM OF OFFER AND ACCEPTANCE

OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

CONSTRUCTION OF GALESHEWE LIBRARY

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

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

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

Rand (in words):	
Rand in figures:	R

VAT IS TO BE INCLUDED EVEN IF THE TENDERER IS A NON VAT VENDOR

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

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

Company or Close Corporation: And: Whose Registration Number is: And: Whose Income Tax Reference Number is:	OR	Natural Person or Partnership: Whose Identity Number(s) is/are: Whose Income Tax Reference Number is/are:
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AND WHO IS (if applicable):

Trading under the name and style of:
--

AND WHO IS:

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

Name of representative	Signature	Date

WITNESSED BY:

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Name of witness	Signature	Date

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)

The official documents ☐

The official alternative ☐

Own alternative (only if documentation makes provision therefore) .. ☐

(N.B.: Separate Offer and Acceptance forms are to be completed for the main and for each alternative offer)

SECURITY OFFERED:

(a) the Tenderer accepts that in respect of contracts from R 500 000 and up to R 1 million, a surety of 2% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract

(b) in respect of contracts above R 500 000, the Tenderer offers to provide security as indicated below:

(1) cash deposit of 10 % of the Contract Sum (excluding VAT) Yes ☐ No ☐

(2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT) (DPW 10.3) Yes ☐ No ☐

(3) payment reduction of 10% of the value certified in the **payment certificate** (excluding VAT) Yes ☐ No ☐

(4) cash deposit of 5% of the **contract sum** (excluding. VAT) and a payment reduction of 5% of the value certified in the **payment certificate** (excluding. VAT) Yes ☐ No ☐

(5) fixed **construction guarantee** of 5% of the **contract sum** (excluding VAT) and a payment reduction of 5% of the value certified in the **payment certificate** (excluding VAT) Yes ☐ No ☐

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

The Tenderer elects as its *domicilium citandi et executandi* in the Republic of South Africa, where any and all legal notices may be served, as (physical address):

.....

Other Contact Details of the Tenderer are:

Telephone No	Cellular Phone No.
Fax No	Other contact No.
Postal address:	
Main or Principal Place of Business:	

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E-mail Address :	
Registered Place of Business:	
Banker	Branch.....
Registration No of Tenderer at Department of Labour	
CIDB Registration Number: (Attach copy of certificate)	
CSD Number.....	SARS Tax Pin.....

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 1 Agreement and contract data, (which includes this agreement)
- Part 2 Pricing data (refer
- Part 3 Scope of work
- Part 4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

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

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

Notwithstanding anything contained herein, this agreement comes into effect, if delivered by hand on the day of delivery, or if delivered by courier within two working days after submission by the Employer to the courier services for a door-to-door delivery to the Tenderer, provided that the Employer notifies the Tenderer of the tracking number within 24 hours of such submission, or if delivered by telefax, one working day after transmission, or if delivered by email, one working day after transmission.

For the Employer:

Name of signatory	Signature	Date

Name of Organisation:	Department of Roads and Public Works
Address of Organisation:	Tebogo Leon Tume Complex 9-11 Stockroos Street Squarehill Park Kimberley 8301

WITNESSED BY:

Name of witness	Signature	Date

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Schedule of Deviations

1.1.1. Subject:
Detail:
1.1.2. Subject:
Detail:
1.1.3. Subject:
Detail:
1.1.4. Subject:
Detail:
1.1.5. Subject:
Detail:
1.1.6. Subject:
Detail:

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

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

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THE TENDER

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PART T1: TENDERING PROCEDURES

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T1.1- Notice and Invitation to Tender

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NOTICE AND INVITATION TO TENDER
THE DEPARTMENT OF ROADS & PUBLIC WORKS INVITES TENDERS FOR:

Project Title:	CONSTRUCTION OF GALESHEWE LIBRARY		
Bid No:	DRPW 008/2023	Closing Time:	As per advert
Closing Date:	As per advert	Validity Period:	90 days

Tenderers should have a CIDB contractor grading of	7 GB
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RESPONSIVENESS CRITERIA	
√	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submission, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for the specified CLASS and RANGE of construction works are eligible to submit tenders.
√	Joint ventures are eligible to submit tender provided that: <ol style="list-style-type: none"> every member of the joint venture is registered with the CIDB The lead partner has a contractor grading designation in the value one grade lower than the required overall tender grading. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project. A Joint Venture Agreement <u>must</u> be submitted with the tender in the case of a joint venture offer.
√	Tender offer must be properly received on the closing date and time specified on the invitation, fully completed and signed in ink (All as per Standard Conditions of Tender).
√	Submission of applicable : Resolution by the Legal Entity or Consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the Firm / Consortium / joint venture.
√	Submission of (NCP 4) DECLARATION OF INTEREST.
√	Submission of other compulsory returnable schedules / documents as per LIST OF RETURNABLE DOCUMENTS.
√	Submission of SITE INSPECTION CERTIFICATE as proof for attendance of compulsory site meeting.
√	Submission of valid ORIGINAL VALID TAX CLEARANCE CERTIFICATE
√	Submission of PRICED BILL OF QUANTITIES WITH THE TENDER
√	Submission of PREFERENCE CERTIFICATE
√	Submission of BIDDERS DISCLOSURE

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Tender will be evaluated according to the price and specific goals:

The 80/20 system for requirements with a Rand value of up to R50 000 000; OR

The 90/10 system for requirements with a Rand value above R50 000 000.

Where the financial value inclusive of VAT of one or more responsive tenders received equals or is less than R 50 000 000, the 80/20 system shall be applicable.

Where the financial value inclusive of VAT of all responsive tenders received has a value in excess of R 50 000 000, the 90/10 system shall be applicable.

Price / Preference / Functionality:				
Requirement	≤ R50 000 000	> R50 000 000		
Price	80	90	Total must equal	100
Preference	20	10		
Functionality	0 of 80	0 of 90		

Table1: Specific goals for the tender and points claimed are indicated per table below.

(Note to organ of state: Where either the 90/10 or 80/10 goals point system is applicable, corresponding points must be indicated as such.)

Notes to tenderers: The tenderer must indicate how they claim points for each preference system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)

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Collection of tender documents:

PLACE	Tender document may be collected during working hours at the following address: Tebogo Leon Tume Complex 9-11 Stockroos Street Squarehill Park Kimberley 8301
DEPOSIT	N/A
INSPECTION	AS PER ADVERT

Enquiries related to tender documents may be addressed to:

Dept Project Leader:	Lindubuhle Ngaba	Telephone no:	053 839 5100
Cell no:	079 811 6454	Fax no:	
E-mail:	lindubuhle@gmail.com		

Deposit / RETURN of tender documents:

POSTED TO	<p>Tender document may be posted to:</p> <p>THE HEAD OF SCM 9-11 Stockroos Street Squarehill Park Kimberley 8301</p> <p>Attention : MR. V. SIDUMO</p> <p>OR</p> <p>Tender documents may be posted in the tender box outside the main entrance: 9-11 Stockroos Street Squarehill Park Kimberley 8301</p>
Telegraphic, telephonic, telex, facsimile, electronic and / or late tenders will not be accepted.	
Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the TENDER DATA (T 1. 2)	

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T 1.2 - Tender Data

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T1.2- TENDER DATA

The department of roads & public Works invites tender FOR:

Project Title:	CONSTRUCTION OF GALESHEWE LIBRARY		
Bid No:	DRPW 008/2023	Closing Time:	11:00 AM
Closing Date:	As per advert	Validity Period:	90 days

CLAUSE NUMBER	DETAIL
	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement as per Government Notice No 423 Published in Government Gazette No. 42622 of 08 August 2019 and as mended for time to time. (see. www.cidb.org.za)</p> <p>The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.</p> <p>Each item of data given below is cross-referenced to the clause marked 'F' in the above-mentioned Standard Conditions of Tender.</p>
F.1.1	The employer is Department of Roads and Public Works in the Northern Cape Province.

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F.1.2	<p>For this contract the single volume approach is adopted.</p> <p>This procurement document has been formatted and compiled under the headings for a single volume approach as contained in table 6 of the CIDB's "Standard Uniformity in Construction Procurement."</p> <p>The list of Returnable Documents identifies which of the documents a tenderer must complete when submitting a tender offer. The tenderer must submit his tender offer by completing the Returnable Documents including the Fully Priced Activity Schedule/ Bills of Quantities, signing the "Offer" section in the Form of Offer and Acceptance" and delivering the single volume procurement document back to the Department bounded up as it was when it was received.</p> <p>The single volume procurement document issued by the employer comprises the following:</p> <p>TENDER Part 1: Tendering Procedures T1.1 – Tender notice and invitation to tender (Refer to index) T1.2 – Tender date (Refer to index)</p> <p>Part 2: Returnable Documents T2.1 – List of returnable documents (Refer to index) T2.2 - Returnable Schedules</p> <p>CONTRACT Part 1: Agreement and Contract Data C1.1 – Form of offer and acceptance (Refer to index) C1.2 – Contract data (Refer to index) C1.3 – Form of Guarantee (Refer to index)</p> <p>Part 2: Pricing Data C2.1 – Pricing instructions (Refer to index) C2.2 - Activity schedules / Bills of Quantities</p> <p>Part 3: Scope of Work C3 – Scope of work (Refer to index)</p> <p>Part 4: Site Information C4 – Site information (Refer to index)</p>												
F.1.4	<p>The employer's agent is:</p> <table border="1" data-bbox="240 1361 1422 1727"> <tr> <td>Name</td><td>Lindubuhle Ngaba</td></tr> <tr> <td>Capacity</td><td>PROJECT MANAGER</td></tr> <tr> <td>Address</td><td>9-11 Stockroos Street Squarehill Park Kimberley 8301</td></tr> <tr> <td>Tel:</td><td>079 811 6454</td></tr> <tr> <td>Fax</td><td>N/ A</td></tr> <tr> <td>E-mail</td><td>lindubuhle@gmail.com</td></tr> </table>	Name	Lindubuhle Ngaba	Capacity	PROJECT MANAGER	Address	9-11 Stockroos Street Squarehill Park Kimberley 8301	Tel:	079 811 6454	Fax	N/ A	E-mail	lindubuhle@gmail.com
Name	Lindubuhle Ngaba												
Capacity	PROJECT MANAGER												
Address	9-11 Stockroos Street Squarehill Park Kimberley 8301												
Tel:	079 811 6454												
Fax	N/ A												
E-mail	lindubuhle@gmail.com												
F.1.5.2	<p>Insert the following: "..... tender offers, <u>save for all tenders being non responsive</u>, re-issue a tender covering</p>												
F.2.1	<p>For eligibility refer to Notice and Invitation to Tender T1.1.</p> <p>A contract will only be entered into with a tenderer who has in his employment management and supervisory staff satisfying the requirement of the scope of works for labour intensive competencies for supervisory and management staff – NOT APPLICABLE.</p>												

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	<p>Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of Submissions in a GENERAL BUILDING class of construction, in the grading mentioned in the Notice and Invitation to Tender (T1.1), are eligible to submit tenders.</p> <p>Tender offers scoring less than a minimum of 0. % in respect of the total evaluation points for quality will be regarded as non-responsive. THE PROVISION IS NOT APPLICABLE TO EVALUATION METHOD 1 & 2.</p> <table border="1"> <tr> <th>Description of quality criteria & sub criteria</th><th>Maximum number of tender evolution points</th></tr> <tr> <td>NOT APPLICABLE FOR THIS TENDER – CIDB REQUIREMENTS WILL BE ACCEPTED / APPLY</td><td></td></tr> <tr> <td>TOTAL EVALUATION POINTS FOR QUALITY (MS)</td><td>100 POINTS</td></tr> </table>	Description of quality criteria & sub criteria	Maximum number of tender evolution points	NOT APPLICABLE FOR THIS TENDER – CIDB REQUIREMENTS WILL BE ACCEPTED / APPLY		TOTAL EVALUATION POINTS FOR QUALITY (MS)	100 POINTS
Description of quality criteria & sub criteria	Maximum number of tender evolution points						
NOT APPLICABLE FOR THIS TENDER – CIDB REQUIREMENTS WILL BE ACCEPTED / APPLY							
TOTAL EVALUATION POINTS FOR QUALITY (MS)	100 POINTS						
F .2.7	For particulars regarding A PRE-TENDER SITE INSPECTION MEETING, see Notice and Invitation to Tender T1.1						
F .2.12	<p>If a tenderer wishes to submit an own alternative offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements. A tender may submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. Provided that the tenderer's main tender offer is according to specification and would under normal circumstances be recommended for acceptance, his alternative tender offer may also be considered for the purpose of the award of the contract.</p> <p>Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal</p> <p>Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be a contractual obligation of the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respect with the Employer's standards and requirements.</p> <p>The modification Pricing Data must include an amount equal to 5% of the amount tenderer for the alternative offer to cover the Employer's cost of confirming the acceptability of the detailed design before it is constructed</p> <p>Alternative tender offer permitted: NO</p>						
F .2.12	The EMPLOYERS ADDRESS FOR DELIVERY of tender offers and identification details to be shown on each tender offer package are as per Notice and Invitation to Tender T1.1						
F.2.13.6 F .3.5	A two-envelope procedure will not be followed.						
F.2.15	The CLOSING TIME for submission of tender offers is as per Notice and Invitation to Tender T1.1						
F.2.16	The tender offer VALIDITY PERIOD is as per Notice and Invitation to Tender T1.1						
F.2.18	The tenderer will be required to submit a fully Priced Bill / Lump Sum tender document, with tender closing.						
F.2.19	Access shall be provided for inspection, tests and analysis as may be required by the Employer.						

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F.2.22	Not a requirement.
F.3.4.1 F.3.4.2.	The location for opening of the tender offers, immediately after closing time thereof shall be at: 9-11 Stockroos Street Squarehill Park Kimberley 8301
F.3.11.1	<p>The procedure for the evaluation of responsive tender is</p> <ul style="list-style-type: none"> • Method 1: Financial offer • Method 2: Financial offer and preferences • Method 3: Financial offer and quality • Method 4: Financial offer, quality and preferences <p style="text-align: right;">METHOD 2 - will apply for this tender..</p>
F.3.11	<p>Scoring the Financial Offer:</p> <p>$P_s = NEP + W_c$ (calculated separately for each tender offer)</p> <p>The score for quality and financial offer is to be combined, before the addition of the score for preference, as follows:</p> $W_c = W_3 \left(1 + \frac{(P - P_m)}{P_m} \right)$ <p>where</p> <p>W_3 = The number of tender evaluation points for quality and financial offer and equals:</p> <ol style="list-style-type: none"> 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 500 000; or 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R 500 000. <p>P = The price of the financial offer of the submission under consideration.</p> <p>P_m = The price of the financial offer of the submission of the lowest acceptable tender.</p> <p>W_c = Points allocated for price of tender under consideration.</p> <p>Scoring for Preferences:</p> <p>In terms of the Preferential Procurement Regulations 2011 preferences points for B-BBEE level of contribution are calculated on their B-BBEE Status Level of Contribution in the industry.</p> <p>Tender evaluation points will be awarded to tenderers who completes the preferencing schedule and who is found to be eligible for the preference claimed.</p> <p>Points for Direct Preference will be calculated according to the B-BBEE Status Level of Contribution of the tender under consideration as a per the points stated in the Notice and Invitation to Tender T1.1 and claimed in this form.</p> <p>Calculate Total tender Evaluation Points:</p> <p>The point calculated for price will be added to the point scored for preference for each individual tender offer.</p>
F.3.13.1	<p>Tender offers will only be accepted if:</p> <ol style="list-style-type: none"> a) The tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act 12 of 2004) as a person prohibited from doing business with the public sector; and b) The tenderer has not: <ol style="list-style-type: none"> 1. abused the Employer's Supply Chain management System; or 2. Failed to perform on any previous contract and has been given a written notice to this effect.
F.3.18	Provide to the successful tender one copy of the signed contract document.

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PART T2: RETURNABLE DOCUMENTS

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T2.1- List of Returnable Documents

LIST OF RETURNABLE DOCUMENTS

2. RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES

(Insert a tick in the "Returnable document" column to indicate which documents must be returned with the tender)

Tender document name		Number of pages issued	Returnable document
C 1 1	Form of Offer and Acceptance (Refer to Index)	4 Pages	<input checked="" type="checkbox"/> Yes
T 2. 2-1	Resolution of Board of Directors (Refer to Index)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-2	Resolution of Board of Directors to enter into consortia or JV's (Refer to Index)	2 Pages	<input checked="" type="checkbox"/> Yes
T2 2-3	Special Resolution of Consortia or JV's (Refer to Index)	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-4	Schedule of proposed sub-contractors (Refer to Index)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-5	Capacity of Tenderer (Refer to Index)	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-6	Site Inspection Meeting Certificate (Refer to Index)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-7	Bidders Disclosure	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-10	Compulsory Enterprise Questionnaire	2 Pages	<input checked="" type="checkbox"/> Yes
	Priced Bill of Quantities	Pages	<input checked="" type="checkbox"/> Yes

3. RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name		Number of pages issued	Returnable document
T2. 2-6	Preference Certificate (NCP6.1)	6 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-11	Record of Addenda to tender documents(Refer to Index)	1 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-12	Particulars of Electrical Contractor (Refer to Index)	1 Pages	<input checked="" type="checkbox"/> Yes

4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name		Number of pages issued	Returnable document
Form of construction guarantee (Refer to index)		Pages	<input checked="" type="checkbox"/> Yes

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Resolution of Board of Directors

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RESOLUTION OF BOARD OF DIRECTORS

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

(legally correct full name and registration number, if applicable, of the Enterprise)

Held at _____ (place)

On _____ (date)

RESOLVED that:

1. The Enterprise submits a Bid / Tender to DEPARTMENT OF ROADS AND PUBLIC WORKS in respect of the following project:

(project description as per Bid / Tender Document)

Bid / Tender Number: _____ (Bid / Tender Number as per Bid / Tender Document)

2. *Mr/Mrs/Ms: _____

in *his/her Capacity as: : _____ (Position in the Enterprise)

and who will sign as follows: : _____

be, and is hereby, authorised to sign the Bid / Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid / Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid / Tender to the Enterprise mentioned above.

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			

Note:

1. * Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise
3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page

ENTERPRISE STAMP

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

Resolution of Board of Directors to Enter into Consortia or Joint Ventures

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at _____ (place)

On _____ (date)

RESOLVED that:

3. The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to DEPARTMENT OF ROADS AND PUBLIC WORKS in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: _____ (Bid / Tender Number as per Bid /Tender Document)

4. *Mr/Mrs/Ms: _____

in *his/her Capacity as: _____ (Position in the Enterprise)

and who will sign as follows: _____

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

5. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.
6. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: _____

_____ (code)

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

Postal Address: _____

_____ (code)

Telephone number: _____ (code)

Fax number: _____ (code)

	Name	Capacity	Signature
1			
2			
3			
4			
5			
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7			
8			
9			
10			
11			
12			
13			
14			
15			

Note:

1. * Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise
3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page

ENTERPRISE STAMP

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

Special Resolution of Consortia or Joint Ventures

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the duly authorized representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

Held at _____ (place)

On _____ (date)

RESOLVED that:

RESOLVED that:

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the DEPARTMENT OF ROADS & PUBLIC WORKS in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: _____ (Bid / Tender Number as per Bid /Tender Document)

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

B. Mr/Mrs/Ms: _____

in *his/her Capacity as: _____ (Position in the Enterprise)

and who will sign as follows: _____

be, and is hereby, authorized to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

- C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of: _____
- D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.
- E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.
- F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.
- G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: _____

_____ (code)

E-mail address : _____

Business address: _____

_____ (code)

Postal Address: _____

_____ (code)

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

Telephone number: _____ (code)

Fax number: _____ (code)

	Name	Capacity	Signature
1			
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10			
11			
12			
13			
14			
15			

Note:

1. * Delete which is not applicable
2. **NB.** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the Consortium/Joint Venture submitting this Bid
3. Should the number of Duly Authorised Representatives of the Legal Entities joining forces in this Bid exceed the space available above, additional names and signatures must be supplied on a separate page
4. Resolutions, duly completed and signed, from the separate Enterprises who participate in this Consortium/Joint Venture must be attached to the Special Resolution.

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

Schedule of Proposed Subcontractor

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

SCHEDULE OF PROPOSED SUBCONTRACTORS

We notify you that it is our intention to employ the following Subcontractors for work in this contract.
We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council and/or with the CIDB (Construction Industry Development Board).

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

Name of representative	Signature	Capacity	Date

Name of organisation:	
-----------------------	--

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY
DRPW 008/2023

Capacity of Tenderer

CONSTRUCTION OF GALESHEWE LIBRARY
DRPW: 008/2023

CAPACITY OF TENDERER

5. **WORK CAPACITY:** *(The Tenderer is requested to furnish the following particulars, attach additional pages if more space is required. Failure to furnish the particulars may result in the Tender being disregarded.)*

Skilled artisans employed		Unskilled employees employed	
Categories of artisans	Number	Categories of employees	Number

5.1. Provide full particulars of:

Machinery	Plant	Workshops
6.		

CONSTRUCTION OF GALESHEWE LIBRARY
DRPW: 008/2023

7. PARTICULARS OF COMMITMENTS WHICH THE TENDERER HAS PREVIOUSLY COMPLETED AND PRESENTLY ENGAGED WITH:

7.1. Current projects:

Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commence- ment	Scheduled date of completion
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

CONSTRUCTION OF GALESHEWE LIBRARY
DRPW: 008/2023

7.2. Previous projects:

Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commencement	Scheduled date of completion	Actual date of completion
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Name of Tenderer	Signature	Date

Preference Certificate

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the **80/20** preference point system.
- b) Either the **90/10 or 80/20 preference point system** will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

$$\begin{array}{ccc}
 \text{80/20} & \text{or} & \text{90/10} \\
 \\
 Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) & \text{or} & Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

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

$$\begin{array}{ccc}
 \text{80/20} & \text{or} & \text{90/10} \\
 \\
 Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) & \text{or} & Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
 - ☐ One-person business/sole propriety
 - ☐ Close corporation
 - ☐ Public Company
 - ☐ Personal Liability Company
 - ☐ (Pty) Limited
 - ☐ Non-Profit Company
 - ☐ State Owned Company
- [TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I 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 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering 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 tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted 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, if deemed necessary.

.....

SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

CONTRACT FORM - PURCHASE OF GOODS/WORKS (NCP/SBD 7)

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SUCCESSFUL BIDDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SUCCESSFUL BIDDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE BIDDER)

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution).....in accordance with the requirements and specifications stipulated in bid numberat the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Proof of tax compliance status;
 - Pricing schedule(s);
 - Technical Specification(s);
 - Preference claim form for Preferential Procurement in terms of the Preferential Procurement Regulations;
 - Bidder's Disclosure form;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT).....	WITNESSES
CAPACITY.....	1.....
SIGNATURE.....	2.....
NAME OF FIRM.....	DATE
DATE.....	

CONTRACT FORM - PURCHASE OF GOODS/WORKS (NCP/SBD7.1)

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I in my capacity
as..... accept your bid under reference
number.....datedfor the supply of goods/works indicated
hereunder and/or further specified in the annexure(s).
2. An official order indicating delivery instructions is forthcoming.
3. I undertake to make payment for the goods/works delivered in accordance with the terms
and conditions of the contract, within 30 (thirty) days after receipt of an invoice
accompanied by the delivery note.

ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	B-BBEE STATUS LEVEL OF CONTRIBUTION	POINTS CLAIMED FOR EACH SPECIFIC GOAL (IF APPLICABLE)

4. I confirm that I am duly authorised to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

	<p>WITNESSES</p> <p>1.....</p> <p>2.....</p> <p>DATE</p>
--	--

THE DEPARTMENT ROADS AND PUBLIC WORKS SPECIFIC GOAL DETERMINATION

For 80/20 preference point system;

80/20 preference point system for acquisition of goods or services with Rand value equal to or below R50 million

- i. The following formula must be used to calculate the points out of 80 for price in respect of an invitation for a tender with a Rand value equal to or below R50 million, inclusive of all applicable taxes:

$$P_s = 80(1 - P_t - P_{\min})$$

P_{\min}

Where

P_s = Points scored for price of tender under consideration;

P_t = Price of tender under consideration; and

P_{\min} = Price of lowest acceptable tender

- ii. A maximum of 20 points may be awarded to a tenderer for the specific goals specified for the tender.
- iii. The points scored for the specific goal must be added to the points scored for the price and the total must be rounded to the nearest two decimal places.
- iv. Subject to section 2(1)(f) of the Preferential Procurement Policy Framework Act, 2000, the contract must be awarded to the tenderer scoring the highest points.

The following table must be used to calculate the score out of 20 for specific goals:
Specific Goal

Specific Goals	Number of Points
An EME or QSE which is at least 51% owned by black people	10
An EME or QSE which is at least 51% owned by black people who are youth	5
An EME or QSE which is at least 51% owned by black people who are women	10
An EME or QSE which is 51% owned by black people with disabilities	5
An EME or QSE which is 51% owned by black people living in rural or under developed areas	10
Maximum Points to Claim	20

The following must be noted for the allocation of 20 points

1. The 80/20 preferential point system

80/20 preferential point system for acquisition of goods and services with the Rand value equal to or below of R50 million all taxes applicable

The following formula will be applied to calculate the points out of 80 for price in respect of an invitation for tender with a Rand value equal to or below R50 million, inclusive of all applicable taxes;

- A tenderer might be requested to submit proof of its B-BBEE status level of contributor.
- A share certificate and or CIPC information of the company might be requested to be able to verify ownership.
- Any other relevant evidence can be requested from the tenderer to substantiate the claim for the 20 points from any of the above specific goals on the table.
- CSD printout must accompany all submission documents.
- The above points can be increased, reduced and split to more than one specific goal, depending on the requirements of the bid and specifications, however when such is increased or reduced, the information must be published correctly to the bidder at the time of advert of tender, but total points must not exceed 20 points.
- Locality points will be allocated to any company with a valid verifiable address in the Northern Cape, the following e-Systems will be used to validate your Docelium (CIPC, SARS, CSD, Municipal Account in your Name or Company Name and A lease agreement which, must have substantiating legitimate evidence relating to the Northern Cape, the address claimed, such as proof of rental payment and receipt of rentals by both the lessee and lessor.
- If the price offered by the tenderer scoring the highest points is not reasonable, DRPW must not award the contract to the tenderer.
- DRPW may negotiate a reasonable price with the tenderer scoring the highest points or cancel the tender.
- If the tenderer does not agree to a reasonable price, negotiate a reasonable price with the tenderer scoring the second highest points or cancel the tender.
- If the tenderer scoring the second highest points does not agree a reasonable price, negotiate a reasonable price with tenderer scoring the third highest points or cancel the tender.
- If a reasonable price is not agreed as envisaged, DRPW must cancel the tender.

The 90/10 preference point system;

90/10 preference point system for acquisition of goods or services with Rand value above R50 million

- i. The following formula must be used to calculate the points out of 90 for price in respect of an invitation for a tender with a Rand value above R50 million, inclusive of all applicable taxes:

$$P_s = 90(1 - P_t - P_{min})$$

Where

P_s = Points scored for price of tender under consideration;
 P_t = Price of tender under consideration; and
 P_{min} = Price of lowest acceptable tender

- ii. A maximum of 10 points may be awarded to a tenderer for the specific goals specified for the tender.
- iii. The points scored for the specific goal must be added to the points scored for the price and the total must be rounded to the nearest two decimal places.
- iv. Subject to section 2(1)(f) of the Preferential Procurement Policy Framework Act, 2000, the contract must be awarded to the tenderer scoring the highest points.

The following table must be used to calculate the score out of 20 for specific goals: Specific Goal

Specific Goals	Number of Points
An EME or QSE which is at least 51% owned by black people	10
An EME or QSE which is at least 51% owned by black people who are youth	5
An EME or QSE which is at least 51% owned by black people who are women	10
An EME or QSE which is 51% owned by black people with disabilities	5
An EME or QSE which is 51% owned by black people living in rural or under developed areas	10
Maximum Points to Claim	10

The following must be noted for the allocation of 10 points

1. The 90/10 preferential point system

90/10 preferential point system for acquisition of goods and services with the Rand value above R50 million all taxes applicable

The following formula will be applied to calculate the points out of 90 for price in respect of an invitation for tender with a Rand value above R50 million, inclusive of all applicable taxes;

- A tenderer might be requested to submit proof of its B-BBEE status level of contributor.
- A share certificate and or CIPC information of the company might be requested to be able to verify ownership.
- Any other relevant evidence can be requested from the tenderer to substantiate the claim for the 10 points from any of the above specific goals on the table.
- CSD printout must accompany all submission documents.
- The above points can be increased, reduced and split to more than one specific goal, depending on the requirements of the bid and specifications, however when such is increased or reduced, the information must be published correctly to the bidder at the time of advert of tender, but total points must not exceed 20 points.
- Locality points will be allocated to any company with a valid verifiable address in the Northern Cape, the following e-Systems will be used to validate your Docelium (CIPC, SARS, CSD, Municipal Account in your Name or Company Name and A lease agreement which, must have substantiating legitimate evidence relating to the Northern Cape, the address claimed, such as proof of rental payment and receipt of rentals by both the lessee and lessor.
- If the price offered by the tenderer scoring the highest points is not reasonable, DRPW must not award the contract to the tenderer.
- DRPW may negotiate a reasonable price with the tenderer scoring the highest points or cancel the tender.
- If the tenderer does not agree to a reasonable price, negotiate a reasonable price with the tenderer scoring the second highest points or cancel the tender.
- If the tenderer scoring the second highest points does not agree a reasonable price, negotiate a reasonable price with tenderer scoring the third highest points or cancel the tender.
- If a reasonable price is not agreed as envisaged, DRPW must cancel the tender.

Site Inspection Meeting Certificate

SITE INSPECTION MEETING CERTIFICATE

Project title:	CONSTRUCTION OF GALESHEWE LIBRARY
----------------	-----------------------------------

This is to certify that I, _____ representing
_____ in the company of
_____ visited the site on:

I have made myself familiar with all local conditions likely to influence the work and the cost thereof. I further certify that I am satisfied with the description of the work and explanations given at the site inspection meeting and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

Name of Tenderer	Signature	Date

Name of DEPT Representative or Project Leader	Signature	Date

Name of Project Manager	Signature	Date

Bidders Disclosure

BIDDER’S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder’s declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? YES/NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of institution	State

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? YES/NO

2.2.1 If so, furnish particulars:
.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO

2.3.1 If so, furnish particulars:
.....
.....

3 DECLARATION

1. the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

I, the undersigned, (name).....in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

2. Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

Record of Addenda to Tender Documents

RECORD OF ADDENDA TO TENDER DOCUMENTS

14. I / We confirm that the following communications received from the DEPARTMENT OF ROADS & PUBLIC WORKS before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer: *(Attach additional pages if more space is required)*

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

Name of Tenderer	Signature	Date

15. I / We confirm that no communications were received from the Department of Roads and Public Works before the submission of this tender offer, amending the tender documents.

Name of Tenderer	Signature	Date

Particulars of Electrical Contractor

PARTICULARS OF ELECTRICAL CONTRACTOR

We confirm that the Electrical Contractor contracted to construct are registered with the Electrical Contracting Board of SA and with the CDB (Construction Industry Development Board) in their class of construction.	
Name of Electrical Contractor:	
Address:	
Electrical Contractor registration number at the Electrical Contracting Board of S.A.:	

Name of Tenderer	Signature	Date

Special Conditions Of Contract For Subcontracting

SPECIAL CONDITIONS OF TENDER

PROJECT: CONSTRUCTION OF GALESHEWE LIBRARY

TENDER NO: DRPW 008/2023

SUBCONTRACTING

SUBCONTRACTING

It is a special condition of this tender and the subsequent contract that would be awarded to the successful tenderer that:

The tenderer / contractor should apply specific goals / objective criteria to advance designated groups in terms of section 2(1)(f) of the Preferential Procurement Policy Framework Act and section 9(f) of the revised regulations of 2017 which reads as follows:

The successful tenderer must subcontract a minimum of 30% of the value of the contract to and local EME or QSE which is 51% owned by black people, black youth, black women and black people with disabilities.

For this reason, the following documentation must be submitted at the time of entering into the agreement between main contractor and subcontractors:

- certified B-BBEE certificates / sworn affidavits of the sub-contracting party
- original and valid tax clearance certificate of the sub-contracting party
- signed copy of the legal agreement between the main contractor and the subcontracting party,

Only those subcontractors who are registered with the CIDB, or are capable of being so prior to the evaluation of their submissions, in a contractor grading designation determined in accordance with the sum tendered for the specific Class and Range of construction works are eligible to submit tenders.

CIDB registration is not applicable to Labour Only subcontractors.

The targeted CIDB graded contractor levels of 2 and above will be applicable to this project.

It is a further requirement that these subcontractors are registered and active on the Central Supplier Database (CSD)

For this particular project, local will be confined firstly to the Sol Plaatje Local Municipal Area and thereafter the greater Frances Baard District in the Northern Cape Province.

Contract parameters

Less: contingencies and escalation R

Net amount	R	(1)
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Summary of targeted works or trades identified for subcontracting participation

Proposed Work / Trades to be subcontracted	Estimated value of contracts (excluding provisional sums, budgetary allowances, contingencies, escalation and value added tax)	Percentage participation claimed towards contract participation goal
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
	R	%
Total contribution towards Subcontracting participation goal	R	% (2)

Targeted subcontracting participation goal	100 x 2 / 1	%
--	-------------	---

THIS SPECIAL CONDITIONS OF TENDER IS REGARDED AS A REPOSIVNESS CRITERIA, THUS FAILURE TO COMPLETE AND COMPLY WILL LEAD TO THE DISQUALIFICATION OF YOUR TENDER

Local Content Declaration

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (SBD 6.2)

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

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

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) 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 1286:211 as follows:

$$LC = [1 - \frac{x}{y}] * 100$$

Where:

x is the imported content in Rand

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

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 3.1 below.

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

- 1.6 A bid may be disqualified if this Declaration Certificate and Form L (Annex C, D and E) are not submitted as part of the bid documentation.

2. 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:

Description of services, works or goods	Stipulated minimum threshold
Steel value-added construction material products	
Fabricated Structural Steel	100%
Joining/Connecting Components	100%
Roof and Cladding	100%
Fasteners	100%
Wire Products	100%
Ducting and Structural Pipework	100%
Gutters, downpipes & launders	100%
Primary steel construction material products	
Plates (>4.5mm thick and supplied in flat pieces)	100%
Sheets (<4.5mm thick and supplied in coils)	100%
Galvanised and Colour Coated coils	100%
WireRod and Drawn Wire	100%
Reinforcing bars	100%
Electrical cable material products	
Low Voltage	90%
Low Cost Reticulation	90%
Medium & High Voltage	90%
ACR	90%

3. Does any portion of the services, works or goods offered have any imported content?

YES		NO		Tick applicable box
------------	--	-----------	--	----------------------------

- 3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid 08 December 2027.

The relevant rates of exchange information is 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: Bidders must submit proof of the SARB rate(s) of exchange used.

4. Were the Local Content Declaration Templates (Annex C (Form A3.6), D and E) audited and certified as correct?

YES		NO	
-----	--	----	--

Tick applicable box

4.1 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)

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

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

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

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name Institution):

.....

N.B.:

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 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.dti.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. **Declarations C, D and E, 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 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
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declarations 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 2 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 percentage for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declarations D and E.

- d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority/Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2027 promulgated under the Preferential Policy Framework Act (PPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE:

WITNESS No. 1:

DATE:

WITNESS No. 2:

DATE:

FORM L: LOCAL CONTENT DECLARATION

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.

(C2) Tender description:

(C3) Designated product(s)

(C4) Tender Authority:

(C5) Tendering Entity name:

(C6) Tender Exchange Rate: Pula EU GBP

(C7) Specified local content %

Note: VAT to be excluded from all calculations

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date:

(C20) Total tender value

(C21) Total Exempt imported content

(C22) Total Tender value net of exempt imported content

(C23) Total Imported content

(C24) Total local content

(C25) Average local content % of tender

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1)
(D2)
(D3)
(D4)
(D5)
(D6)

Note: VAT to be excluded from
all calculations

EU R 9.00 GBP R 12.00

A. Exempted imported content

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

Summary	
Tender Qty	Exempted imported value
(D17)	(D18)

(D19) Total exempt imported value

B. Imported directly by the Tenderer

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

Summary	
Tender Qty	Total imported value
(D30)	(D31)

(D32) Total imported value by tenderer

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

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

Calculation of imported content

Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT
(D37)	(D38)	(D39)	(D40)	(D41)	(D42)

Summary

Quantity imported	Total imported value
(D43)	(D44)

(D45) Total imported value by 3rd party

R 0

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange
(D46)	(D47)	(D48)	(D49)	(D50)

Calculation of foreign currency payments

Foreign currency value paid	Tender Rate of Exchange
(D49)	(D50)

Summary of payments

Local value of payments
(D51)

Signature of tenderer from Annex B

Date:

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

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

This total must correspond with Annex C - C 23

(E1)	Tender No.	
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	
(E5)	Tendering Entity name:	

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

(E9) Total local products (Goods, Services and Works)

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

(E13) Total local content

Date: _____

Compulsory Enterprise Questionnaire

6. 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.

Attach to this form the most recent financial statements of the tendering entity.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: cidb registration number, if any:

Section 4: 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 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

CSD Number.....

SARS Pin.....

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | <input type="checkbox"/> an employee or a member of board of directors of cidb |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | <input type="checkbox"/> an employee or a member of board of directors of CIDB |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

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

- authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- confirms that neither the name of the enterprise or the name of any partner, manager, director or 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 Corrupt Activities Act of 2004;
- confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- confirms that I / we are not associated, linked or involved with any other tendering 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
- 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

THE CONTRACT

PART C1 : CONTRACT DATA

Contract Data: JBCC 2000 Principal Building Agreement

CONTRACT DATA: JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

CONTRACT DATA

	<p>The Conditions of Contract are clauses 1 to 41 of the JBCC Series 2000 Principal Building Agreement (Edition 4.1 of March 2005) prepared by the Joint Building Contracts Committee.</p> <p>Copies of these conditions of contract may be obtained through most regional offices of the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</p>
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	<p>CONTRACT VARIABLES</p> <p>THE SCHEDULE</p> <p>The schedule contains all variables referred to in this document and is divided into part 1: contract data completed by the employer and part 2: contract data completed by the contractor. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this agreement</p> <p>Spaces requiring information must be filled in, shown as 'not applicable' or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicized in [/] brackets</p>
--	--

42.0	Part 1: Contract Data completed by the Employer:
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42.1	CONTRACTING AND OTHER PARTIES
42.1.1	<p><u>Employer:</u></p> <p>DEPARTMENT OF ROADS AND PUBLIC WORKS</p> <p><u>Postal address:</u></p> <p>9-11 Stockroos Street Squarehill Park Kimberley 8301</p> <p>[1.2] Tel: 053 839 2100</p> <p><u>Physical address:</u></p> <p>9-11 Stockroos Street Squarehill Park Kimberley 8301</p>

42.1.2 [1.1, 5.1]	<p>Principal Agent: Nalko Engineering and Projects</p> <p>Agent's service: Principal Agent</p> <p>Postal address: 89 Profit Street Northgate 2169</p> <p>Tel: 010 597 7811 Fax: N/A email: thabom@nalko.co.za</p>
[1.1]	<p><u>Representative of the Employer:</u></p> <p>Project Leader: Lindubuhle Ngaba</p> <p>Postal address: 9 - 11 Stockroos Street Squarehill Park Kimberley 8301</p> <p>Tel: 053 893 2100 Cell: 079 811 6454 email: lindubuhle@gmail.com</p>
42.1.3 [1.1, 5.2]	<p>Agent (1): Nalko Engineering and Projects</p> <p>Agent's service: Architectural</p> <p>Postal address: 89 Profit Street Northgate 2169</p> <p>Tel: 010 597 7811 Fax: N/A email: danke@nalko.co.za</p>
42.1.3 [1.1, 5.2]	<p>Agent (2): KVS and Associates</p> <p>Agent's service: Quantity Surveying</p> <p>Postal address: 234 Glover Avenue Waterford Court Lytelton 0157</p> <p>Tel: 012 664 2060 Fax: N/A email: ofentse@kvs.co.za</p>
42.1.3 [1.1, 5.2]	<p>Agent (3): King and Associates Engineering and Projects</p> <p>Agent's service: Civil and Structural Engineering</p> <p>Postal address: 63 Smit Avenue Flamwood Klerksdorp 2571</p> <p>Tel: 018 464 4482 Fax: N/A email: daniel@kingapmu.co.za</p>

42.1.3 [1.1, 5.2]	<p>Agent (4): ZCE Consultants</p> <p>Agent's service: Electrical and Mechanical Engineering</p> <p>Postal address: 33 Rhona Close Northview Kimberly 8300</p> <p>Tel: 079 098 0117 Fax: N/A email: nkululeko@zcesconsultants.co.za</p>
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42.2	CONTRACT DETAILS
42.2.1 [1.1]	Works description: Refer to document C3 – Scope of Work.
42.2.2 [1.1]	Site description: Refer to document C4 – Site Information.
42.2.4 [41.0]	Specific options that are applicable to a State organ only Where so :
[1.1 #] [31.11.2 #] [31.12.2#]	1) Interest rate legislation: The interest rate applicable will be as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)
[11.2.#]	2) Lateral support insurance to be effected by the contractor: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
[31.4.2 #]	3) Payment will be made for materials and goods Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
[40.2.2.#]	4) Dispute resolution by litigation Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
[26.1.2 #]	5) Extended defects liability period applicable to the following elements: N/A
42.2.6 [15.3]	Period for the commencement of the works after the contractor takes possession of the site : Ten (10) working days .
42.2.7 [24.3.1] [30.1]	For the works as a whole: Completion will be as follows: The date for practical completion shall be 18 Months from the commencement date and the penalty per calendar day shall be R 6 000.00 for late completion.
42.2.8 [24.3.1] [28.1]	For the works in sections : The date for practical completion from the commencement date and the penalty per calendar day : NOT APPLICABLE Section 1: Section 2: insert description as may be applicable insert penalty amount Section 3: insert description as may be applicable insert penalty amount Section 4: insert description as may be applicable insert penalty amount
42.2.9 [1.2]	The law applicable to this agreement shall be that of the: Republic of South Africa

42.3	INSURANCES
42.3.1 [10.1 #, 10.2 # 12.1 #]	<p>Contract works insurance to be effected by the contractor</p> <p><input checked="" type="checkbox"/> To the minimum value of the contract sum plus 10%</p> <p>With a deductible not exceeding 5% of each and every claim</p> <p>Or</p> <p><input type="checkbox"/> For the minimum sum of R (.....)</p> <p>With a deductible not exceeding 5% of each and every claim</p>
42.3.2 [10.1 #, 10.2 #, 12.1 #]	<p>Supplementary insurance is required: Yes</p> <p>To the minimum value of the contract sum plus 10 %</p>
42.3.3 [11.1 #, 12.1 #]	<p>Public liability insurance to be effected by the contractor</p> <p><input checked="" type="checkbox"/> For the sum of R 5 million</p> <p>With a deductible not exceeding 5% of each and every claim</p> <p>Or</p> <p><input type="checkbox"/> For the sum of R insert amount (insert amount in words)</p> <p>With a deductible not exceeding 5% of each and every claim</p>
42.3.4 [11.2 #, 12.1 #]	<p>Support insurance to be effected by the contractor</p> <p>For the sum of R insert amount (insert amount in words)</p> <p>With a deductible of R insert amount (insert amount in words)</p>

42.4	DOCUMENTS
42.4.2 [3.7]	Three (3) copies of the construction documents will be supplied to the contractor free of charge
42.4.3	<p>Bills of quantities / Lump sum document schedule of rates drawn up in accordance with:</p> <p><input checked="" type="checkbox"/> Standard System of Measuring Building Work (sixth edition as amended)</p> <p>Or</p> <p><input type="checkbox"/> Standard System of Measuring Building Work for Small or Simple Buildings 1999</p> <p>Or</p> <p><input type="checkbox"/> Other <i>SABS 1200 and the latest amendments thereof (Obtainable from the ASQS offices in Midrand (Tel: 011 315 4140) or MBSA offices in Kimberley (Tel: 053 832 1762)) Specific Project Specification forming part of this document. It will take preference over any contradictory items in the standard SABS/SANS 1200.</i></p>
42.4.5 [3.4]	JBCC Engineering General Conditions are to be included in the contract documents: No

<p>42.4.6 [31.5.3]</p> <p>[32.13]</p>	<p>The contract value is to be adjusted using CPAP indices: [Yes]</p> <p>Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as prepared by the JBCC Series 2000, code 2118, dated May 2005 and any amendments thereto:</p> <ol style="list-style-type: none"> 1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the bills of quantities 2) All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index for Work Group 160 Electrical Installation. In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be in accordance with Work Group 170 3) With reference to Work Group 190 a proportion of the value related preliminaries pro rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions, if Option A has been selected for the adjustment of preliminaries 4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by tenderers, will not be permitted 5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual the factor of 0,55 shall be substituted by 1,45 <p>Alternative Indices: Not Applicable</p>
<p>42.4.7 [3.10]</p>	<p>Details of changes made to the provisions of JBCC standard documentation</p> <p>Clause</p> <p>1.1 COMMENCEMENT DATE – means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>CONSTRUCTION GUARANTEE – means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule</p> <p>CONSTRUCTION PERIOD – means the period commencing on the commencement date and ending on the date of practical completion</p> <p>CORRUPT PRACTICE – means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution</p> <p>FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition</p> <p>INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)</p> <p>PRINCIPAL AGENT – means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule</p>

	<p>SECURITY – means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss</p> <p>1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been duly given when:</p> <p>1.6.4 No clause</p> <p>3.2.1 A construction guarantee in terms of 14.0, where so elected in his tender</p> <p>3.7 Add at the end thereof:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.</p> <p>3.10 Replace the second reference to “principal agent” with the word “employer”</p> <p>4.3 No clause</p> <p>5.1.2 under clause 41- Include reference to 32.6.3; 34.3; 34.4 and 38.5.8 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents</p> <p>10.5 Add the following as 10.5</p> <p>Damage to the works</p> <p>(1) Without in any way limiting the contractor’s obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(2) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(3) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(4) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p>10.6 Add the following as 10.6</p> <p>Injury to Persons or loss of or damage to Properties</p> <p>(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable</p>
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- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall upon receiving a **contract instruction** from the **principal agent** cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (5) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor**, shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (6) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 Add the following as 10.7

HIGH RISK INSURANCE

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

10.7.1 Damage to the works

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

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs

10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the **site**,

	<p>whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>14.0 Replace the entire clause 14.0 with the following:</p> <p>14.0 SECURITY</p> <p>14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.</p> <p>14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor</p> <p>14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor</p> <p>14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p>
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	<p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p>
	<p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender</p> <p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p> <p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8(A) and 34.8</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p> <p>14.6.3 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p>

- 14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:
- 14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)
- 14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**
- 14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**
- 14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2 the **employer**, in his sole discretion, and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable
- 15.1.1 No clause
- 15.1.2 The **security** selected in terms of 14.0
- 15.1.4 Add 15.1.4 as follows:
- An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days** of **commencement date**
- 15.2.1 Under 41: Amend to read as follows:
- “Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4
- 17.1.11 Delete the words “and the appointment of **nominated** and **selected subcontractors**”
- 20.1.3 No clause
- 21.0 No clause
- 26.1.2 Add # next to 26.1.2
- 29.2.5 No clause
- 31.5.2 Security adjustments in terms of 14.0 or 31.8
- 31.8 Amend as follows:
- 31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and of the **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:
- 31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**
- 31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

- 31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6
- 31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.
- 31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:
- 31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**
- 31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**
- 31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6
- 31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**
- 31.12 Delete the following: "Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due."
- 32.5.1 Add the following to the end of each of these clauses: "...due to no fault of the
32.5.4 **contractor**"
and
32.5.7
- 34.1 Remove #
- 34.2 Add # next to 34.2
- 34.8 The **principal agent** shall certify one hundred per cent (100%) of the amount of the **final account** in the **final payment certificate**
- 34.13 Replace "seven (7) **calendar days**" with "twenty one (21) **calendar days**" and delete the words: "subject to the **employer** giving the **contractor** a tax invoice for the amount due"
- 36.1 Add the following clauses 36.1.3 to 36.1.5. under 36.1 to read as follows:
- 36.1.3 refuses or neglects to comply strictly with any of the conditions of contract
- 36.1.4 estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa
- 36.1.5 in the judgment of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract
- 36.3 Remove reference to "No clause", and replace "**principal agent**" with "**employer**"
- 36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of this

	<p>37.5 agreement either by the employer or the contractor; or for any reason whatsoever, and the contractor shall on written instruction, discontinue with the works on a date stated</p> <p>38.7 and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever”</p> <p>37.3.5 Replace “ninety (90)” with “one hundred and twenty (120)” And 38.5.4</p> <p>39.3.5 Add the following words at the end thereof: “within one hundred and twenty (120) working days of completion of such a report”</p> <p>40.2.2 under clause 41 – Replace “one (1) year” with “three (3) years”</p> <p>40.6 under clause 41 – Remove reference to no clause</p> <p>40.7.1 Change “(10)” to “(15)”</p> <p>Add the following to the end thereof:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.</p>
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42.0	Part 2: Contract Data provided by the Contractor:
42.5	CONTRACT DETAILS
42.5.1	<p>Contractor:</p> <p>Postal address:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Tel: _____ Fax: _____</p> <p>TAX / VAT Registration No: _____</p> <p>Physical address:</p> <p>_____</p> <p>_____</p> <p>_____</p>

42.5.2	The accepted contract sum inclusive of tax is R _____ Amount in words: _____
42.5.3 [31.3]	The latest day of the month for the issue of an interim payment certificate : _____
42.5.4 [32.12]	The preliminaries amounts shall be paid in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>
42.5.5 [32.12]	The preliminaries amounts shall be adjusted in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>

42.5.7 [14]	<p>The security to be provided by the contractor:</p> <p>(a) in respect of contracts up to R1 million, the contractor will provide security in terms of 14.1</p> <p>(b) in respect of contracts above R1 million, the contractor will provide, as security, one of the following:</p> <p>(1) cash deposit of 10 % of the contract sum (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(2) variable construction guarantee of 10 % of the contract sum (excluding VAT) (DPW-10.3 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(6) cash deposit of 5% of the contract sum (excluding. VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding. VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(7) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) (DPW-10.1 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</p>
42.5.8 [29.7.2]	<p>The annual building holiday period after the commencement of the construction period:</p> <p>From: _____ to _____</p>

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

Fixed Construction Guarantee – JBCC

FIXED CONSTRUCTION GUARANTEE
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

HEAD OF SUPPLY CHAIN MANAGEMENT
DEPARTMENT OF ROADS AND PUBLIC WORKS

TO: Mr V Sidumo
9-11 Stockroos Street
Squarehill Park
Kimberley
8301

Sir,

**FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT
IN TERMS OF JBCC 2000 (4.1 EDITION MARCH 2005)**

1. With reference to the contract between _____
_____ (hereinafter referred to as the “**contractor**”) and the DEPARTMENT OF ROADS AND PUBLIC WORKS (hereinafter referred to as the “**employer**”), Contract/Tender No: DRPW 008/2023 for the CONSTRUCTION OF GALESHEWE LIBRARY

(hereinafter referred to as the “contract”) in the amount of R *insert amount, (insert amount in words)*,
(hereinafter referred to as the **contract sum**),

I / We, _____

in my/our capacity as _____ and hereby

representing _____ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer’s** disposal the sum of R *insert amount, (insert amount in words)* being 10% of the **contract sum** (excluding VAT), for the due fulfilment of the contract.
2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and all other exceptions which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
3. Subject to the above, but without in any way detracting from the **employer’s** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer**, at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
5. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the **construction period**, indulgence, release or variation of the **contractor’s** obligation shall not affect the validity of this guarantee.

6. This undertaking is neither negotiable nor transferable, and
- (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
 - (b) shall lapse on the date of the last **certificate of practical completion**; and
 - (c) shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF _____ 202

AS WITNESS

- 1. _____
- 2. _____

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
(duly authorised thereto by resolution attached marked Annexure A)

DATE: _____

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to: _____

Variable Construction Guarantee – JBCC

VARIABLE CONSTRUCTION GUARANTEE
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

HEAD OF SUPPLY CHAIN MANAGEMENT
DEPARTMENT OF ROADS AND PUBLIC WORKS
NORTHERN CAPE

TO: Mr V Sidumo
9-11 Stockroos Street
Squarehill Park
Kimberley
8301

Sir,

VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000
(4.1 EDITION MARCH 2005)

5. With reference to the contract between _____
_____(hereinafter
referred to as the “**contractor**”) and DEPARTMENT OF ROADS AND PUBLIC WORKS, (hereinafter referred to
as the “**employer**”), Contract/Tender No: DRPW 008/2023 for the CONSTRUCTION OF GALSHEWE LIBRARY

(hereinafter referred to as the “contract”) in the amount of R **insert amount, (insert amount in words)** (hereinafter
referred as the **contract sum**),

I / We, _____

in my/our capacity as _____ and hereby

representing _____ (hereinafter referred to as the “**guarantor**”)
advise that the **guarantor** holds at the **employer’s** disposal the sum of R **insert amount,**
(insert amount in words) being 10% of the **contract sum** (excluding VAT), for the due fulfillment of the
contract.

6. I / We advise that the **guarantor’s** liability in terms of this guarantee shall be reduced as follows:

- (a) From and including the date on which this guarantee is issued and up to and including the date of payment of the amount in the last final **payment certificate**, the **guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
- (b) From and including the day after the date of the last **certificate of practical completion** and up to and including the date of the last **final completion** certificate, the **guarantor’s** liability will be reduced to 3% of the value of the works (excluding VAT);
- (c) From and including the day after the date of the last **final completion** certificate and up to and including the date of settlement of the amount in the last final **payment certificate**, the **guarantor’s** liability will be reduced to 1% of the value of the works (excluding VAT);
- (d) This guarantee shall expire on the date of payment of the amount in the last final payment certificate.

7. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and all other exceptions which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
- (c) Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
- (d) The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
- (e) The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
- (f) This undertaking is neither negotiable nor transferable, and
- (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 5 above, or
- (b) shall lapse in accordance with clause 2(d) above; and
- © shall not be interpreted as extending the **guarantor's** liability to anything more than the payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF _____ 202__

AS WITNESS

3. _____

4. _____

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____

(duly authorized thereto by resolution attached marked Annexure A)

DATE: _____

- D. No alterations and/or additions of the wording of this form will be accepted.
- E. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- F. This GUARANTEE must be returned to: _____

PART C3: SCOPE OF WORKS

Scope of Works – JBCC

SCOPE OF WORKS
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

PROJECT	CONSTRUCTION OF GALESHEWE LIBRARY
---------	-----------------------------------

C3. Scope of Works

EXTENT OF THE WORKS

The scope of works consist of the construction of the new galeshewe library, guard house, external works, which includes paving, driveway, parking, storm water control, water supply, soil drainage, fencing, and landscaping. The works also includes electrical, fire protection and mechanical installations.

ORDER OF THE WORKS

Shall be conventional construction methods as per SANS and to comply with construction regulations.

ACCESS

The site is at Galeshewe, in Kimberley. Access to the premises will be pointed out by the representative of the department on site.

Health and Safety Specification

STANDARD HEALTH AND SAFETY SPECIFICATION

Standard Bills

These specifications shall be used in conjunction with all other applicable Health and Safety specifications, Legislation as in Occupational Health and Safety Act no. 85 of 1993 as amended by Act no.181 of 1993, the Construction Regulations as promulgated on 18 July 2003 and incorporated into the OHS Act by Government Notice No. R1010 published in Government Gazette 25207, General Safety Regulations as promulgated on 18 July 2006 and incorporated into the OHS Act by Government Notice No. 1010 published in Government Gazette 25207 and all other relevant regulations incorporated into the OHS Act as well as ISO 9 000, all Environmental legislation such as:

- Environment Conservation Act No. 73 of 1989
- National Water Act No. 36 of 1998
- Hazardous Substances Act No. 15 of 1973
- Atmospheric Pollution Prevention Act No.45 of 1965
- Physical Planning Act 88 of 1967

GENERAL

- Client

The Client, Department of Roads and Public Works, shall execute his duties as per Regulation 4 of the Construction Regulations of 2003 that states *inter alia*, the following:

1. A client shall be responsible for the following in order to ensure compliance with the provisions of the Act-
 - (a) Prepare health and safety specifications for the construction work, and provide any Contractor who is making a bid or appointed to perform work for the client with the same;
 - (b) Appoint each Contractor in writing for the project or part thereof on a construction site;
 - (c) Take reasonable steps to ensure that each Contractor's health and safety plan is implemented and maintained on the construction site. Provided that the steps taken, shall include periodic audits at intervals, mutually agreed upon between the client and the Contractor, but at least once every month;
 - (d) Stop any Contractor from executing construction work, which is not in accordance with, the Contractor's health and safety plan;
 - (e) Ensure that where changes are brought about to the design or construction, sufficient health and safety information and appropriate resources are made available to the principal contractor to execute the work safely;
 - (f) Ensure that every Contractor is registered and in good standing with the Compensation fund or with a licensed compensation insurer prior to commencing on site.
 - (g) Ensure that potential principal contractors submitting tenders, have made provision for the cost of health and safety measures during construction process.

Therefore, the following specifications from the Client to the Contractor:

- Each and every Contractor shall make the following appointments and provide the necessary training accordingly:

- (a) Construction Works Supervisor
- (b) Health and Safety Representatives
- (c) Health and Safety Committee
- (d) Machinery Supervisor
- (e) Excavation Inspector
- (f) And all the necessary appointments as per the OHS Act and the relevant Regulations

All appointments should be completed before work commencement, signed, dated and completed in full, be fully explained to the nominated individual and should be at all times displayed on Site Notice Board that will have to be at least 600mm by 800mm.

- The Site Notice Board should also *inter alia*, have the following information on it:
 - a. Site regulations concerning safe working procedures
 - b. Information on the nearest first-aid station
 - c. Ambulance
 - d. Doctor
 - e. CSO's number and
 - f. Other relevant persons
- Each and every Contractor shall give notification of Construction work to the Office of the Department of Labour **PRIOR** to commencement of work.
- Each Contractor shall provide the Client with a Pre Site establishment checklist
- Each Contractor shall to monthly safety audits on the project and provide the Client with a copy thereof
- Each Contractor shall provide to the Client a Health and Safety Representative inspection checklist and ensure that Health and Safety representatives do inspections at least on a monthly basis
- Each Contractor shall provide and demonstrate to the Client a Health and Safety management policy
- As per the General Safety Regulations Regulation 4 as contemplated in the Basic Conditions of Employment Act, No. 3 of 1983, have the relevant amount of trained First-Aiders on site.
- In terms of Regulation 3 of the General Safety Regulations, provide a first-aid box or boxes on the premises of work
- In terms of Section 23 of the OHS Act, provide all workers at all times, with the necessary PPE.
- In terms of the Facilities Regulations provide the necessary facilities such as proper ablution, during space, lockers and any other item as per the Facilities Regulations that is necessary to carry out the work safely and without risk to the health of the workers.
- Keep an incident record book on site at all times.

SAFE WORKING LOADS

The Contractor shall ensure that where applicable:

- safe working loads of hoists, load bearing beams and cranes are prominently displayed at all times.
- The safe working loads are not exceeded under any circumstances.
- All lifting gear is marked with a unique identity number and recorded in a register

ELECTRICAL EQUIPMENT AND PROCEDURES USED BY THE CONTRACTOR

All electrical equipment shall be regularly inspected by a qualified electrician, who shall be appointed by the Contractor. And the inspections shall be logged. The frequency of inspections shall be determined by the Client. A record of the inspections shall be kept and shall be made available to the Client on request

The Contractor shall ensure that all his electrical equipment conforms to operational and safety requirements.

All earth leakage units shall be tested at intervals of not more than one month and signed for by a qualified electrician.

COMMISSIONING SAFETY PRECUATIONS

The Contractor shall ensure that wherever repairs, adjustments of any other work are undertaken on any plant or machinery, the power supply is switched off, disconnected or the plant/machinery disengaged until the work or repairs have been completed.

A Certificate of Completion by a qualified master electrician will be issued after electrical work is completed.

TOXIC MATERIALS

The Contractor shall exercise all necessary care in the handling of toxic compounds and shall be able to identify the major chemical components in the event of medical treatment being required.

A designated route as well as a dumping site will be identified for the transportation and disposal of waste material by the service provider.

INDEMNITY OF THE CLIENT AND HIS AGENTS

Annexure A to this Specification contains a "Mandatory Form of Authority and Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No 85/93, as amended, which agreement shall be entered into and duly signed by both the Client and the Contractor prior to commencement of work. A copy of the signed agreement shall be included in the Contractor's Health and Safety Plan.

Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice observation, proposal, request, test or similar act by either the Client or any of his

Agents, including lack of disapproval, shall not relieve the Contractor from any responsibility he has under the Act and the relevant regulations (Construction Regulation), including responsibility for errors, omissions, discrepancies and non-compliance.

SPECIFIC REQUIREMENTS

Design

No significant hazards can be identified which have not been considered in the detailed design. However, hazard must be anticipated that are due to and arising from shoddy and careless workmanship and unconventional construction methods used by semi-qualified and unqualified craftsmen during skills transfer.

Work sequences are a logical progression of the construction of a building under consideration of the tender documentation, National Building Regulations, Regulations, the Standard Occupational Health and Safety Specifications, other specifications and manufacturers' instructions.

Security

The Contractor's material and whole site must be properly secured.

Existing environment

The surrounding roads and properties will be pointed out to the Contractor at site handover.

If the flow of traffic is in no way going to be hampered by the contractor's work, the necessary traffic authorities must be immediately informed.

Existing services

All known services will be pointed out at site handover.

Contractors must recognize that all services on the site must be expected to be "live" and potentially critical to the safe functioning of the works. Precautions for any work on or near them should be identified, planned, approved and taken accordingly.

In the event that previously unidentified services are discovered, Contractors shall immediately refer detail of location, suspected condition and status to the Client and await instruction. On no account must any services be interfered with without specific instruction and authority.

Ground conditions

Geotechnical investigations to be done prior commencement of works

Related restrictions affecting health and safety

Being in a residential area, normal daytime working hours are to be adhered to in order to minimize disturbance to surrounding residences.

No unauthorized blasting in a residential area will be done without authorization from the client.

Control of pollution

All rubble, refuse, etc. is to be disposed of in accordance with the municipal by-laws.

Needed to mention, the above mentioned health and safety specifications should be used in accordance with the standard specifications as can be found in the existing tender document of the Client.

The Client can and will, if necessary and in the interest of health and safety, amends the above mentioned specifications.

An identified and agreed dumping site will be used in case of hazardous material. A disposal certificate will be issued by the contractor after disposal.

- **Principal Contractor and Contractor**

In terms of Regulation 5 of the Construction Regulations, after receiving the health and safety specifications from the Client, the Principal Contractor shall provide and demonstrate to the Client a Health and Safety Plan. This Health and Safety Plan shall indicate that the (Contractor) shall perform, but is not limited to, the following duties:

GENERAL REQUIREMENTS

- Administration
- Appointments
- Safety committees
- Registers, Checklists and permits
- Incident management
- Emergency planning
- Contractors
- Risk assessment
- Audits
- Hazardous substance control
- Training
- Additional requirements
- Planning

Annexure:

The following annexures should be attached to the Health and Safety Plan and the format should be agreed upon between the Client and the Contractor:

- Pro forma for Construction Works Supervisor appointment
- Pro forma for Health and Safety Representative Appointment and his IOSH membership
- Pro forma for Machinery Supervisor appointment
- Pro forma for Excavation Inspector appointment
- Pro forma for Notification of Construction Work
- Pro forma – Pre Site Inspection Checklist
- Monthly Safety Audit Checklist
- Health and Safety Representative Inspection checklist
- Health and Safety Management Policy

CONCLUSION

The objectives of this document is to outline all necessary procedures required to implement and maintain a comprehensive Occupational Health and Safety System for Construction Projects in line with specifications prescribed by the Department of Roads and Public Works.

It is general business imperative of the Department of Roads and Public Works to understand and embrace safe working procedures. Violations of simple safety procedures can lead to injury and even loss of life. Every accident, no matter how minor, can be translated into costs against the Project. These costs are both direct (damage to property, medical expenses, etc.) and indirect (investigation proceedings, disruption of work, delay in program, plant replacements, etc).

In order for an easier understanding of legislative requirements in particular with regard to the Construction Regulations this proposed planning document has been compiled in a very simplistic manner. It will therefore not focus on each and every scenario that may arise and does not intend to convey all requirements of statutes other than the following:

1. Occupational Health and Safety Act No. 85/93 as amended by Act No. 181/93
2. Incorporated Regulations of the Act – Construction Regulations of 2003
3. Relevant SABS codes of the Practice as per Section 40 of the OHS Act.
4. Compensation for Occupational Injury and Diseases Act no. 130 of 1993 as amended.

STANDARD ABBREVIATIONS

OCCUPATIONAL HEALTH AND SAFETY

ITEM	TERM	ABBREVIATION
1	Health and Safety	H&S
2	Occupational Health and Safety	OHS
3	Safety Health and environment Representative	SHE REP
4	Hazard Identification and Risk Assessment	HIRA
5	Personal Protective Equipment	PPE
6	General Administrative Regulations	GAR
7	Facilities Regulations	FR
8	General Safety Regulations	GSR
9	Environmental Regulations	ER
10	Electrical Installation Regulations	EIR
11	Asbestos Regulations	AR
12	Driven Machinery Regulations	DMR
13	General Machinery Regulations	GMR
14	Electrical Machinery Regulations	EMR
15	Diving Regulations	DR
16	Lead Regulations	LR
17	Vessels under Pressure Regulations	VPR
18	Regulations for Hazardous Chemicals Substances	HAZCHEM Reg.
19	Major Hazard Installation Regulations	MHIR
20	Construction Regulations	CR
21	Mines Health and Safety Act	MHS ACT
22	Compensation for Occupational Injuries and Diseases Act	COIDA
23	South African Bureau of Standards	SABS
24	Construction Safety Officer	CSO
25	Medical Safety Data Sheet	MSDS
26	Tunneling Regulations	TR
27	Traffic Calming Devices	TCD
28	Environmental Impact Assessment	EIA
29	Hazardous Chemical Substances	HCS
30	Dangerous Goods	DG
31	Dry Chemical Powders	DCP

HEALTH AND SAFETY SPECIFICATION

BREAKDOWN OF MINIMUM EXPECTED COST ITEMS

CARRY TOTAL TO SECTION C, CLAUSE C11 OF PRELIMINARIES

NO	GENERAL REQUIREMENTS	STATUE	QUANTITY	RATE	AMOUNT
1	Contractor's Health and safety Plan	Regulation 5 of CR	1/site		
2	Contractor's full time construction Supervisor	Regulation 6(1) of CR	1/site		
3	Risk Assessment	Regulation 7(1)	1/site		
4	Fall protection plan	Regulation 8(1)	1/site		
5	Demolition work	Regulation 12 (1) of CR	1		
6	Scaffolding and suspended platforms supervisor (Full time)	Regulation 14(1) of CR	1		
7	Construction welfare facilities	Regulation 28(1)	1		
8	Health and safety induction	Section 13 of OHS ACR 85/93	1		
9	Trained health and safety representatives	Section 17 and 18 of OHS ACT 85/93	2 rep for every ten employees		
10	Trained health and safety committee(s)	Section 19 and 20 of OHS ACT	At least one (1) Committee		
11	Provision of PPE for workers free of charge at employer's expense	Section 23 of OHS Act 85/93	All workers on site		
12	Provision of trained first-aiders full time on site	Regulation 3(94) of GSR	2 trained first-aiders for up to every 10 employees		
13	Log books including health and safety file full time on site	Regulation 8(1) of GAR	1		
14	Notices on site	Regulation 11(1) of GAR	3		
15	Safety straps, safety harnesses, safety rails and safety devices	Section 8 of OHS ACT 85/93			
16	Full time health and safety officer on site		1		
17	Compliance to Health Protocols related to the Covid-19: Must clearly be incorporated into the Health and Safety Plan (specify on separate page)	Regulation 18	1		
TOTAL EXCL VAT (CARRIED OVER TO PRELIMINARIES SECTION OF BOQ: PAGE 137: ITEM 113)					

PART C4: SITE INFORMATION

Site Information – JBCC

SITE INFORMATION
JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)

Project title:	CONSTRUCTION OF GALESHEWE LIBRARY
-----------------------	-----------------------------------

C4 Site Information

1. LOCATION AND ACCESS

Corner Mareng Street and Kwena Street
Galeshewe, Kimberley

Please contact the project leader for confirmation of the site. The project leader for this project is:
Lindubuhle Ngaba, Cell: 079 811 6454 , email: lindubuhle@gmail.com or contact the implementing agent at
053 839 2100 for more information.

2. NATURE OF THE GROUND

Geotechnical investigations have not been conducted yet but will be done before commencement of construction works.

Tenderers / Bidders must however inspect the premises to make themselves thoroughly acquainted with the nature of the ground.

No claims whatsoever will be entertained spreading from a bidder that did not attend the site inspection meeting or did not familiarize himself with the conditions at the premises.

PART C2 : PRICING DATA

C2.2- Bills of Quantities

Bills of Quantities
Section No. 1:
Preliminaries and General

Item No		Quantity	Rate	Amount
	<u>SECTION NO.1</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	<u>PRELIMINARIES</u>			
	<u>PRINCIPAL BUILDING AGREEMENT</u>			
	The agreement shall be the Principal Building Agreement prepared and published by the Joint Building Contracts Committee: Edition 4.1 Code 2101, March 2005. (The JBCC Series 2000 Principal Building Agreement).			
	<u>PRELIMINARIES</u>			
	The preliminaries shall be the Preliminaries prepared and published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement: Code 2103, May 2005. (The JBCC Series 2000 Preliminaries).			
	<u>FULL INTENT AND MEANING OF CLAUSES</u>			
	Tenderers shall be deemed to have referred to the afore-mentioned documents for the full intent and meaning of each clause. These clauses are hereinafter referred to by the heading and clause number only.			
	Where standard clauses or alternatives are not applicable to this contract, such modifications, corrections or supplements as are necessary are given under each relevant clause heading or within the relevant schedule.			
	Where an item is not relevant to this specific contract, such item is marked "N/A" signifying "Not applicable".			
	<u>PRICING OF CLAUSES</u>			
	Tenderers shall allow opposite each clause for any cost involved with complying with such clause. Any clauses left unpriced shall be deemed to be covered by rates and prices elsewhere incorporated throughout these bills of quantities.			
	Carried Forward		R	
	Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

Brought Forward		R
<u>PAYMENT CATEGORIES</u>		
Should 'Alternative A', as set out within Clause 10.3 of the JBCC 2000 Preliminaries, be used for the adjustment of preliminaries, then each item priced is to be allocated to one or more categories by the insertion of the letter "F", "V" or "T", as the case may be, against the price in the rate column. These letters shall indicate the relevant categories as follows:		
"F" - A fixed amount. "V" - A variable amount in proportion to the value "T" - An amount in proportion time		
<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>		
<u>DEFINITIONS</u>		
1	Definitions and interpretation <div style="text-align: right;">Clause 1.0</div> F:..... V:..... T:.....	Item
<u>OBJECTIVE AND PREPARATION</u>		
2	Offer, acceptance and performance <div style="text-align: right;">Clause 2.0</div> F:..... V:..... T:.....	Item
3	Documents Clause 3.1 is hereby deleted and no payment guarantee will thus be provided by the employer. Clause 3.3 is hereby amended by deleting the words "..... within seven (7) calender days of having received a payment guarantee from the employer in terms of 3.1 "in the first sentence and substituting with".....within twenty-one (21) calendar days of written acceptance of the contractor's tender." The second sentence shall remain unchanged. <div style="text-align: right;">Clause 3.0</div> F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General		

	Brought Forward		R
4	<p>Design responsibility</p> <p>The following new subclause is hereby added to this clause:</p> <p>4.4 Notwithstanding the provisions of 4.2, the contractor shall ensure that every such nominated or selected subcontractor shall simultaneously with the signing of the relevant nominated or selected subcontract sign and deliver to the employer a Design Materials and Workmanship Warranty and Undertaking in favour of the employer or a Materials and Workmanship Undertaking strictly in accordance with the instructions or provisions contained in the tender documents for the nominated or selected subcontract works.</p> <p style="text-align: right;">Clause 4.0</p> <p>F:..... V:..... T:.....</p>	Item	
5	<p>Employer's agents</p> <p style="text-align: right;">Clause 5.0</p> <p>F:..... V:..... T:.....</p>	Item	
6	<p>Site representative</p> <p style="text-align: right;">Clause 6.0</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>		

	Brought Forward		R
7	<p>Compliance with regulations</p> <p>The following new subclause is hereby added to this clause:</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is incorporated at the back of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p style="text-align: right;">Clause 7.0</p> <p>F:..... V:..... T:.....</p>		
		Item	
8	<p>Works risk</p> <p style="text-align: right;">Clause 8.0</p> <p>F:..... V:..... T:.....</p>		
		Item	
	Carried Forward		R
	<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>		

	Brought Forward		R
9	Indemnities Clause 9.0 F:..... V:..... T:.....	Item	
10	Works insurances Clause 10.0 F:..... V:..... T:.....	Item	
11	Liability insurances Clause 11.0 F:..... V:..... T:.....	Item	
12	Effecting insurances Clause 12.0 F:..... V:..... T:.....	Item	
13	13.0 No Clause	Item	
14	Security Notwithstanding the provisions of sub-clause 14.1, the contractor shall submit with his tender a letter of intent from an accredited guarantor, undertaking to provide the selected JBCC construction guarantee to the Provision of Security format appended to these bills of quantities. The employer reserves the right to reject a construction guarantee if, in the opinion of the employer , the guarantor is not accredited Clause 14.0 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

Brought Forward			R
<u>EXECUTION</u>			
15	Preparation for and execution of the Works Clause 15.0 F:..... V:..... T:.....	Item	
16	Access to the Works The contractor shall afford all reasonable access to other contractors and/or sub-contractors who may be employed by the client to execute other work whether in connection with the Contract Work or not Clause 16.0 F:..... V:..... T:.....	Item	
17	Contract instructions Clause 17.0 F:..... V:..... T:.....	Item	
18	Setting out of the Works The Contractor shall notify the Principal Agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order to make the necessary arrangements for the rectification of any such encroachments Clause 18.0 F:..... V:..... T:.....	Item	
19	Assignment Clause 19.0 F:..... V:..... T:.....	Item	
20	Nominated Subcontractors Clause 20.0 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

Section No. 1: Preliminaries and General
Bill No. 1
Preliminaries and General

	Brought Forward		R	
28	Sectional completion Clause 28.0 F:..... V:..... T:.....	Item		
29	Revision of date for practical completion Subclause 29.1.1 is hereby deleted and substituted by the following: Exceptionally inclement whether, which shall only relate to weather with a degree of inclemency which is materially greater than or is materially beyond the average inclemency experienced in the past five years and /or recorded, in terms of available records or otherwise, at or for the area in which the site is situated, for the period(s) in question. Any revision of date of practical completion which may, in terms of this clause be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally inclement weather by which the average periods of time, during which exceptionally inclement weather is experienced and/or recorded in the area in which the site is situated, is exceeded. The contractor is therefore to make allowance for normal vagaries of the weather. Clause 29.0 F:..... V:..... T:.....	Item		
30	Penalty for non-completion Clause 30.0 F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

Brought Forward		R
<u>PAYMENT</u>		
31	<p>Interim payment to the contractor</p> <p>Notwithstanding this or any other clause, materials and goods stored off site shall not be included in the amount authorised for payment.</p> <p>Subclause 31.9 is hereby amended by the substitution of the words "seven (7) calendar days" in the first line by the words "twenty one (21) calendar days".</p> <p>Subclause 31.10 is hereby amended by the substitution of the words "practical completion" in the second and fourth lines by the words "final completion".</p> <p style="text-align: right;">Clause 31.0</p> <p>F:..... V:..... T:.....</p>	Item
32	<p>Adjustment to the contract value</p> <p>Notwithstanding the provisions of subclause 32.13 or any other clause, all fluctuations in costs shall be for the account of the contractor. See also subclause 42.4.6</p> <p>Where prices are submitted by the contractor and/or sub-contractors during progress of the works in respect of contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the Principal Agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing</p> <p style="text-align: right;">Clause 32.0</p> <p>F:..... V:..... T:.....</p>	Item
33	<p>Recovery of expense and loss</p> <p style="text-align: right;">Clause 33.0</p> <p>F:..... V:..... T:.....</p>	Item
Carried Forward		R
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General		

	Brought Forward		R	
34	<p>Final account and final payment</p> <p>Subclause 34.11 is hereby amended by the substitution of the words "practical completion" in the third line by the words "final completion".</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor after final completion after the date of issue of the certificate of final completion but only for such period as the settlement of the final account is delayed by non-performance of the Principal Agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p> <p style="text-align: right;">Clause 34.0</p> <p>F:..... V:..... T:.....</p>	Item		
35	<p>Payment to other parties</p> <p style="text-align: right;">Clause 35.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<u>CANCELLATION</u>			
36	<p>Cancellation by Employer - Contractor's default</p> <p style="text-align: right;">Clause 36.0</p> <p>F:..... V:..... T:.....</p>	Item		
37	<p>Cancellation by Employer - loss and damage</p> <p style="text-align: right;">Clause 37.0</p> <p>F:..... V:..... T:.....</p>	Item		
38	<p>Cancellation by Contractor - Employer's default</p> <p style="text-align: right;">Clause 38.0</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>			

Brought Forward		R	
42.1.2			
Principal Agent:	Nalko Engineering and Projects		
Postal address:	89 Profit Street Northgate		
Code:	2169		
Tel:	078 407 6998		
Fax:			
E-mail:	thabom@nalko.co.za		
42.1.2			
Agent (1):	Nalko Engineering and Projects		
Agent's service:	Architectural		
Postal address:	89 Profit Street Northgate		
Code:	2169		
Tel:	083 974 5814		
Fax:			
E-mail:	danke@nalko.co.za		
42.1.3			
Agent (2):	KVS and Associates		
Agent's service:	Quantity Surveying		
Postal address:	234 Glover Avenue Waterford Court Lyttelton		
Code:	0157		
Tel:	012 664 2060		
Fax:			
E-mail:	ofentse@kvsa.co.za		
Carried Forward		R	
Section No. 1: Preliminaries and General			
Bill No. 1			
Preliminaries and General			

Brought Forward		R	
42.1.3			
Agent (3):	King and Associates Engineering and Project Managers		
Agent's service:	Civil and Structural Engineering		
Postal address:	63 Smit Avenue Flamwood		
Code:	2571		
Tel:	082 044 4533		
Fax:			
E-mail:	daniel@kingapmu.co.za		
42.1.4			
Agent (4):	ZCES Consultants		
Agent's service:	Electrical and Mechanical Engineering		
Postal address:	33 Rhona Close Northview Kimberley		
Code:	8300		
Tel:	079 098 0117		
Fax:			
Email:	nkululeko@zcesconsultants.co.za		
42.2	CONTRACT DETAILS		
42.2.1	Works description:		
	Construction of a new library and guard house buildings and external works which includes pavings, water supply, soil drainage and fencing. The works also include electrical and mechanical installations.		
Carried Forward		R	
Section No. 1: Preliminaries and General			
Bill No. 1			
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<p style="text-align: right;">Brought Forward</p> <p>42.2.2 Site description:</p> <p style="padding-left: 40px;">A fairly flat site in Galeshewe, corner Marang Street and Kwená Street</p> <p>42.2.3 Work or installations by direct contractors: (22.2)</p> <p style="padding-left: 40px;">Not Applicable</p> <p>42.2.4 Specific options that are applicable to a State organ (41.0) only Where so: (1) Legislation applicable to the interest rate:</p> <p>As determined by the Minister of Justice in terms of Section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act no. 55 of 1975) from time to time</p> <p style="padding-left: 40px;">(2) Lateral support insurance to be effected by the Contractor:</p> <p style="text-align: right;">No</p> <p>and (3) Payment will be made for materials goods:</p> <p style="text-align: right;">Yes</p> <p style="padding-left: 40px;">(4) Dispute resolution by litigation:</p> <p style="text-align: right;">No</p> <p style="padding-left: 40px;">(5) Extended defects liability period applicable to the following elements:</p> <p style="text-align: right;">N/A</p> <p>42.2.5 Possession of the site is intended to be given on: (15.2.1)</p> <p>Date to be indicated after contract award</p> <p>42.2.6 (15.3) Period for the commencement of the Works after the Contractor takes possession of the site: One (1) working days</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p style="text-align: right;">R</p> <hr/> <p style="text-align: right;">R</p>
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	Brought Forward		R
	<p>42.2.7 For the works as a whole:</p> <p>(24.3.1) The date for practical completion and the penalty per calendar day.</p> <p>The programme and cashflow to be submitted within thirty calendar days after site handover will form part of the deliverable milestones. Failure to meet these shall be deemed to be in breach of contract. Should the contractor fail to submit both within this period, the Principal Agent and/or Quantity Surveyor shall impose both and the contractor shall have seven working days to counter such with an acceptable programme and cash-flows. Acceptability shall be solely decided by the Principal Agent and/or Quantity surveyor and/or Project Manager</p> <p>Date:</p> <p>18 Months from the commencement date</p> <p>Penalty:</p> <p>R 6 000,00/day</p> <p>42.2.8 For the works in sections:</p> <p style="text-align: right;">Not Applicable</p> <p>42.2.9 The law applicable to this Agreement shall be that of:</p> <p>(1.2)</p> <p style="text-align: right;">Republic of South Africa</p>		
43	<p>42.3 INSURANCES</p> <p>42.3.1 Contract Works insurance to be effected by:</p> <p>(10.1, 10.2, 12.1)</p> <p style="text-align: right;">Contractor</p> <p>For the sum of: Equal to the Contract Sum plus 10%</p> <p>With a deductible of: Equal to 5% of the above insured amount</p>	Item	
	Carried Forward		R
	<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>		

Brought Forward	R
42.3.2 Supplementary insurance is required: (10.1, 10.2, 12.1)	
No	
42.3.3 Public liability insurance to be effected by: (11.1, 12.1)	
Contractor	
For the Sum of: R 5,000,000.00 (Five million rand only)	
With a deductible of: 5% of the above insured amount	
42.3.4 Support insurance to be effected by the employer (11.1, 12.1)	
Not Applicable	
<u>42.4 DOCUMENTS</u>	
42.4.1 Waiver of Contractor's lien or right of (3.3, 15.1.3, continuing possession is required: 31.16.2)	
Yes	
42.4.2 Construction document copies to be supplied to the (3.7) Contractor free of charge:	
Two (2)	
42.4.3 Bills of Quantities/Lump sum document / schedule of rates drawn up in accordance with:	
Standard System of Measuring Building Work 2015, Seventh Edition	
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days: (15.1.1)	
Five (5)	
Carried Forward	R
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General	

<p style="text-align: right;">Brought Forward</p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the contract documents: (3.4)</p> <p style="text-align: right;">No</p> <p>42.4.6 The contract value is to be adjusted using CPAP indices: (31.5.3)</p> <p style="text-align: right;">Yes</p> <p>42.4.7 Details of changes made to the provision of JBCC standard documentation: Refer to the Contract Data</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General</p>		<p>R</p>	
		R	

Brought Forward			R
<u>SECTION B: PRELIMINARIES</u>			
<u>1.0 DEFINITIONS AND INTERPRETATION</u>			
44	<p>Definitions and interpretation</p> <p style="text-align: right;">Clause 1.0</p> <p>F:..... V:..... T:.....</p>	Item	
<u>2.0 DOCUMENTS</u>			
45	<p>Checking of documents.</p> <p>The items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 1999 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained.</p> <p style="text-align: right;">Clause 2.1</p> <p>F:..... V:..... T:.....</p>	Item	
46	<p>Provisional bills of quantities.</p> <p>These bills of quantities shall <u>not</u> be used for ordering purposes.</p> <p style="text-align: right;">Clause 2.2</p> <p>F:..... V:..... T:.....</p>	Item	
47	<p>Availability of construction documentation.</p> <p>The budgetary allowances allocated for sub-contract amounts allocated for subsequent trades included in this document will be separately procured, based on multiple procurement of sub-contractors during construction period</p> <p style="text-align: right;">Clause 2.3</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>			

	Brought Forward		R
48	Interests of agents. Clause 2.4 F:..... V:..... T:.....	Item	
49	Priced documents. Notwithstanding the provisions of this clause, the contractor shall deposit/submit the priced documents within the time as stated in A41.4.4 of the Schedule of Contract Variables Rates (items) Where appropriate, rates for similar items in these bills of quantities should be the same Prior to signing of the Principal Building Agreement the Principal Agent shall be at liberty to make such adjustments to individual rates, whether they are Subcontractor's rates or not, as will eliminate errors or discrepancies or which he considers to be imbalanced, unreasonable or unrealistic rates, without altering the tender sum Clause 2.5 F:..... V:..... T:.....	Item	
50	Tender submission This clause is amended by substituting " JBCC Form of Tender" with " Official Form of Tender: Clause 2.6 F:..... V:..... T:.....	Item	
	<u>3.0 THE SITE</u>		
51	Defined works area The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over the site. Clause 3.1 F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General		

	Brought Forward		R	
52	Geotechnical investigation Clause 3.2 F:..... V:..... T:.....	Item		
53	Inspection of the site There will be a compulsory site inspection and briefing meeting as per the tender advertisement. Failure to attend will lead to disqualification of the tender. Clause 3.3 F:..... V:..... T:.....	Item		
54	Existing premises occupied Clause 3.4 F:..... V:..... T:.....	Item		
55	Previous work - dimensional accuracy Clause 3.5 F:..... V:..... T:.....	Item		
56	Previous work - defects Clause 3.6 F:..... V:..... T:.....	Item		
57	Services - known Clause 3.7 F:..... V:..... T:.....	Item		
58	Services - unknown Clause 3.8 F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

	Brought Forward		R	
59	Protection of trees Clause 3.9 F:..... V:..... T:.....	Item		
60	Articles of value Clause 3.10 F:..... V:..... T:.....	Item		
61	Inspection of adjoining properties Clause 3.11 F:..... V:..... T:.....	Item		
<u>4.0 MANAGEMENT OF CONTRACT</u>				
62	Management of the Works The Contractor shall obtain all necessary particulars of Subcontractors' work timeously so that provision for recesses, chases, holes, etc. can be made Clause 4.1 F:..... V:..... T:.....	Item		
63	Programming for the Works Clause 4.2 F:..... V:..... T:.....	Item		
64	Progress meetings Clause 4.3 F:..... V:..... T:.....	Item		
65	Technical meetings Clause 4.4 F:..... V:..... T:.....	Item		
66	Labour and plant records Clause 4.5 F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General				

Brought Forward			R	
<u>5.0 SAMPLES AND SHOP DRAWINGS</u>				
67	Samples of materials	Caluse 5.1		
	F:..... V:..... T:.....		Item	
68	Workmanship samples	Clause 5.2		
	F:..... V:..... T:.....		Item	
69	Shop drawings	Clause 5.3		
	F:..... V:..... T:.....		Item	
70	Compliance with manufacturers' instructions	Clause 5.4		
	F:..... V:..... T:.....		Item	
<u>6.0 TEMPORARY WORKS AND PLANT</u>				
71	Deposits and fees	Clause 6.1		
	F:..... V:..... T:.....		Item	
72	Enclosure of the works	Clause 6.2		
	F:..... V:..... T:.....		Item	
73	Advertising	Clause 6.3		
	F:..... V:..... T:.....		Item	
Carried Forward			R	
Section No. 1: Preliminaries and General				
Bill No. 1				
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	Brought Forward		R	
74	Plant, equipment, sheds and offices Clause 6.4 F:..... V:..... T:.....	Item		
75	Main noticeboard Clause 6.5 F:..... V:..... T:.....	Item		
76	Subcontractors notice board Clause 6.6 F:..... V:..... T:.....	Item		
<u>7.0 TEMPORARY SERVICES</u>				
77	Location Clause 7.1 F:..... V:..... T:.....	Item		
78	Water Clause 7.2 F:..... V:..... T:.....	Item		
79	Electricity Clause 7.3 F:..... V:..... T:.....	Item		
80	Telecommunication equipment Clause 7.4 F:..... V:..... T:.....	Item		
81	Ablution facilities Clause 7.5 F:..... V:..... T:.....	Item		
<u>8.0 PRIME COST AMOUNTS</u>				
82	Responsibility for prime cost amounts Clause 8.1 F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General				

Brought Forward			R
<u>9.0 ATTENDANCE ON NOMINATED/SELECTED SUBCONTRACTORS</u>			
83	General attendance Clause 9.1 F:..... V:..... T:.....	Item	
84	Special attendance The last three words contained within Clause 9.2, <i>ie.</i> "..... in the schedule", shall be deleted and replaced by "..... within the relevant item incorporated in these bills of quantities". Clause 9.2 F:..... V:..... T:.....	Item	
85	Commissioning - Fuel, water and power Clause 9.3 F:..... V:..... T:.....	Item	
<u>10.0 FINANCIAL ASPECTS</u>			
86	Statutory taxes, duties and levies Provision is made in the summary of these bills of quantities for inclusion of Value Added Tax (VAT) Clause 10.1 F:..... V:..... T:.....	Item	
87	Payment of preliminaries Clause 10.2 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

	Brought Forward			R
88	<p>Adjustment of preliminaries</p> <p>Should the contractor select Alternative B but fails to provide the information required prior to signing of the contract, the Principal Agent shall have the right to select either Alternative A or B for the adjustment of Preliminaries. If the Principal Agent selects Alternative B he shall be entitled to make assumptions at his discretion regarding the information which the contractor would normally have provided prior to the signing of the contract</p> <p style="text-align: right;">Clause 10.3</p> <p>F:..... V:..... T:.....</p>	Item		
89	<p>Payment certificate cash flow</p> <p style="text-align: right;">Clause 10.4</p> <p>F:..... V:..... T:.....</p>	Item		
	<u>11.0 GENERAL</u>			
90	<p>Protection of the Works</p> <p style="text-align: right;">Clause 11.1</p> <p>F:..... V:..... T:.....</p>	Item		
91	<p>Protection/isolation of existing/sectionally occupied Works</p> <p style="text-align: right;">Clause 11.2</p> <p>F:..... V:..... T:.....</p>	Item		
92	<p>Site security</p> <p>The contractor shall provide and maintain twenty-four hour site security and loss control systems all to the satisfaction of the principal agent. It is envisaged that these procedures will incorporate, inter alia, gate control for personnel and vehicles, individual entry permits, regular security patrols and the like.</p> <p style="text-align: right;">Clause 11.3</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward			R
	<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>			

	Brought Forward		R	
93	Notice before covering work Clause 11.4 F:..... V:..... T:.....	Item		
94	Disturbance Clause 11.5 F:..... V:..... T:.....	Item		
95	Environmental disturbance Clause 11.6 F:..... V:..... T:.....	Item		
96	Works cleaning and clearing Clause 11.7 F:..... V:..... T:.....	Item		
97	Vermin Clause 11.8 F:..... V:..... T:.....	Item		
98	Overhand work Clause 11.9 F:..... V:..... T:.....	Item		
99	Instruction manuals and guarantees Clause 11.10 F:..... V:..... T:.....	Item		
100	As built information Clause 11.11 F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

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<p style="text-align: right;">Brought Forward</p> <p>12.1.7 Previous work - dimensional accuracy</p> <p style="text-align: right;">Not applicable</p> <p>12.1.8 Previous work - defects. (3.6)</p> <p style="text-align: right;">Not applicable</p> <p>12.1.9 Services - known. (3.7)</p> <p style="text-align: right;">No</p> <p>12.1.10 Protection of trees. (3.9)</p> <p style="text-align: right;">No specific requirements</p> <p>12.1.11 Inspection of adjoining properties (3.11)</p> <p style="text-align: right;">Not applicable</p> <p>12.1.12 Enclosure of the Works. (6.2)</p> <p style="text-align: right;">Not applicable</p> <p>12.1.13 Offices (6.4.3) The contractor shall provide, maintain and remove on completion one meeting room at least 8,0 x 5,0 m on plan and 2,6m high internally. The room shall be well lit and fitted with three power outlets. The contractor shall furnish the room with a large table and at least ten chairs.</p> <p>12.1.14 Main notice board. (6.5) One main notice board shall be provided</p> <p>12.1.15 Subcontractors notice board. (6.6) A notice board is required</p> <p style="text-align: right;">No</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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Brought Forward		R	
12.1.16 Water (7.2)	Option A (by contractor)	Yes	
12.1.17 Electricity	Option A (by contractor)	Yes	
12.1.18	Telecommunications		
	Telephone	Yes	
	Facsimile	Yes	
	E-mail	Yes	
12.1.19 Ablution facilities	Optiona A (by contractor)	Yes	
12.1.20 Protection of existing/sectionally occupied works. (11.2)	Protection is required.	No	
12.1.21 Special attendance (9.2)	Details of special attendance required shall be as detailed within the items relevant to each particular sub- contract as incorporated hereinafter in these bills of quantities.		
12.1.22 Protection of the Works (11.1)	No specific requirements		
Carried Forward		R	
Section No. 1: Preliminaries and General Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	<p>12.1.23 Disturbance (11.5) Whilst the employer shall not impose restrictions upon the contractor's working hours, the contractor shall take all measures available to him in order to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.</p> <p>12.1.24 Environmental disturbance (11.6)</p> <p style="text-align: right;">Not applicable</p> <p>12.2 POST-TENDER INFORMATION</p>			
103	Post-tender information required under clauses 12.2.1 to 12.2.3 shall be completed prior to contract signing, in consultation with the contractor.	Item		
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	<u>SUPPLEMENTARY DOCUMENTATION</u>			
104	<p>As built drawings.</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the Contractor on the structural engineering drawings and are to be submitted to the Principal Agent and the structural engineer for their records.</p> <p>F:..... V:..... T:.....</p>	Item		
105	<p>Site Instructions.</p> <p>Contract instructions issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the contractor.</p>	Item		
106	<p>LABOUR RECORD</p> <p>At the end of each week the contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day of that week</p>	Item		
	Carried Forward		R	
	<p>Section No. 1: Preliminaries and General</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>			

[illegible]

Bills of Quantities

Section No. 2: Building Works

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 1</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
NOTE: The foundations have measured to the top of the surface bed. Foundations depths shall be confirmed on site. All excavations shall not be covered prior to the approval and recording of the depths by the Engineer.			
<u>Nature of ground</u>			
A soils investigation has been carried out on site by the engineer and the report is available at their offices for scrutiny. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
<u>Carting away of excavated material</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in compacted earth filling material not exceeding 2m deep</u>			
1	Trenches (LI)	m3	449
2	Holes (LI)	m3	108
3	Thickening under surface beds etc	m3	7
<u>Extra over excavation in earth for excavation in</u>			
4	Soft rock (LI)	m3	56
5	Hard rock	m3	28
Carried Forward			R
Section No. 2: Building Works Bill No. 1 Earthworks			

Brought Forward			R
<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 (LI)	m3 563	
<u>Risk of collapse of excavations</u>			
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2 1 388	
<u>Keeping excavations free of water</u>			
8	Keeping excavations free of all water other than subterranean water	Item	
<u>G5 earth filling supplied by the contractor compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
9	Backfilling to trenches, holes, etc (LI)	m3 337	
10	Under floors, steps, pavings, etc	m3 260	
<u>Compaction of surfaces</u>			
11	Compaction of ground surface under floors, trenches, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density (LI)	m2 1 398	
<u>Soil insecticide</u>			
12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (LI)	m2 868	
13	To bottoms and sides of trenches, etc (LI)	m2 1 918	
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 1			
Earthworks			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of tests</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
	Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
	<u>"Foamcement " lightweight concrete</u>			
	"Foamcement" lightweight concrete is to have a density of 600kg/m ³ for the top 50mm and 400kg/m ³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm			
	<u>"Celbeton" lightweight concrete</u>			
	"Celbeton" lightweight concrete is to have a density of 1000kg/m ³ for the top 20mm and 480kg/m ³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm			
	Carried Forward		R	
	Section No. 2: Building Works Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward			R
<u>Formwork</u>			
Description 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.			
Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described			
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"			
<u>UNREINFORCED CONCRETE</u>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/19mm concrete</u>			
1	Surface blinding under footings and bases	m3	30
<u>REINFORCED CONCRETE</u>			
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>30MPa/19mm concrete</u>			
2	Bases	m3	41
Carried Forward			R
Section No. 2: Building Works Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward			R
3	Strip footings	m3	150
4	Ramps	m3	2
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
<u>25MPa/19mm concrete</u>			
5	Surface beds including thickening	m3	137
<u>30MPa/19mm concrete</u>			
6	Columns in foundations	m3	7
7	Columns	m3	31
8	Slabs including beams and inverted beams	m3	1
9	Isolated beams	m3	56
10	Vanity slabs, cupboard slabs, cover slabs, etc	m3	3
<u>TEST BLOCKS</u>			
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	129
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
12	Surface beds, slabs, etc	m2	872
<u>SMOOTH FORMWORK:</u>			
<u>Smooth formwork to sides</u>			
13	Rectangular columns in foundations (Provisional)	m2	79
14	Rectangular columns with total height not exceeding 3,5m above bearing level	m2	19
15	Rectangular columns with total height exceeding 3,5m and not exceeding 5m above bearing level	m2	140
Carried Forward			R
Section No. 2: Building Works			
Bill No. 2			
Concrete, Formwork and Reinforcement			

	Brought Forward			R
16	Rectangular columns with total height exceeding 5m and not exceeding 6,5m above bearing level	m2	182	
17	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	34	
	<u>Smooth formwork to soffits</u>			
18	Slabs propped up exceeding 1,5m and not exceeding 3,5m high above bearing level	m2	4	
19	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1,5m high above bearing level	m2	26	
	<u>Smooth formwork to sides and soffits</u>			
20	Beams propped up exceeding 1,5m and not exceeding 3,5m high above bearing level	m2	4	
21	Isolated beams propped up exceeding 1,5m and not exceeding 3,5m high above bearing level	m2	229	
22	Isolated beams propped up exceeding 3,5m and not exceeding 5m high above bearing level	m2	300	
	<u>Boxing in smooth formwork to form</u>			
23	20 x 20mm Chamfers along side, top or bottom edges	m	730	
	<u>MOVEMENT JOINTS ETC (PROVISIONAL)</u>			
	<u>Saw cut joints</u>			
24	3 x 30mm Saw cut joints on top of concrete	m	4 340	
	<u>REINFORCEMENT (PROVISIONAL)</u>			
	<u>Mild yield deformed type II steel reinforcement to concrete as described including all bending, hooked ends, binding wire and temporary supports</u>			
25	Steel bar reinforcement in various sizes	t	5.97	
	Carried Forward			R
	Section No. 2: Building Works Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward			R
<u>High yield deformed type II steel reinforcement to concrete as described including all bending, hooked ends, binding wire and temporary supports</u>			
26	Steel bar reinforcement in various sizes	t	23.89
<u>Fabric reinforcement</u>			
27	Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	30
28	Type Ref 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	838
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 2			
Concrete, Formwork and Reinforcement			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 3</u>			
<u>MASONRY (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</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>Hollow walls etc</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.			
<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			
Carried Forward		R	
Section No. 2: Building Works Bill No. 3 Masonry			

Brought Forward			R
<u>FOUNDATIONS (PROVISIONAL):</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
1	Piers (LI)	m3	1
2	One brick wall (LI)	m2	466
3	One brick walls circular on plan	m2	20
4	One and half brick walls (LI)	m2	4
5	580mm Hollow walls of two one brick skins, including 15MPa concrete infill in cavities at lower end of cavity, draining through weep holes at 1500mm centres, and vertical twisted type wall ties (LI)	m2	27
6	710mm Hollow walls circular on plan of two one brick skins, including 15MPa concrete infill in cavities at lower end of cavity, draining through weep holes at 1500mm centres, and vertical twisted type wall ties (LI)	m2	5
<u>Brick reinforcement</u>			
7	150mm Wide reinforcement built in horizontally (LI)	m	5 686
<u>FACE BRICKWORK</u>			
<u>External face bricks "Corobrik Redwood satin FBS" or similar and approved pointed with recessed horizontal and vertical joints.</u>			
8	Extra over brickwork for face brickwork (LI)	m2	21
9	Extra over brickwork for face brickwork to piers and pilasters (LI)	m2	2
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
10	Piers (LI)	m3	1
11	Half brick walls (LI)	m2	308
Carried Forward			R
Section No. 2: Building Works Bill No. 3 Masonry			

Brought Forward

R

12	Half brick walls in beamfilling (LI)	m2	12
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13	One brick walls (LI)	m2	1 540
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14	One brick walls circular on plan	m2	59
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15	One and half brick walls (LI)	m2	16
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16	580mm Hollow walls of two one brick skins, including vertical twisted type wall ties (LI)	m2	135
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17	710mm Hollow walls circular on plan of two one brick skins, including vertical twisted type wall ties (LI)	m2	15
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BRICKWORK SUNDRIES

Isolation joints with 10mm "Jointex" or similar and approved closed cell expanded polyethylene between vertical concrete and brick surfaces

18	Not exceeding 300mm high to edges of surface beds	m	615
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Expansion joints with 10mm "Jointex" or similar and approved closed cell expanded polyethylene between vertical concrete and/or brick wall surfaces, including necessary formwork

19	Not exceeding 300mm wide through columns and/or brick walls	m	456
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Movement joints sealants

20	10 x 10mm, "Sikaflex" compressible joint sealant or similar and approved (LI)	m	1 527
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Brickwork reinforcement

21	75mm Wide reinforcement built in horizontally (LI)	m	1 208
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22	150mm Wide reinforcement built in horizontally (LI)	m	6 333
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Prestressed fabricated lintels

23	110 x 75mm Lintels in lengths not exceeding 3m (LI)	m	135
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Carried Forward

R

Section No. 2: Building Works
Bill No. 3
Masonry

Brought Forward			R
<u>Iron lintels</u>			
24	125 x 75 x 8mm Angle iron support above opening as per details	t	6.00
<u>Turning pieces</u>			
25	220mm Wide turning piece to lintels etc (LI)	m	109
<u>Galvanised wire ties, etc</u>			
26	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (LI)	No	60
<u>Galvanised hoop iron cramps, ties, etc</u>			
27	1.2 x 35 x 540mm galvanised hoop iron ties (LI)	No	1 341
<u>FACE BRICKWORK</u>			
<u>Internal face brick "Corobrik Redwood satin FBS" or similar and approved pointed with recessed horizontal and vertical joints.</u>			
28	Extra over brickwork for face brickwork (LI)	m2	70
<u>External face brick "Corobrik Redwood satin FBS" or similar and approved pointed with recessed horizontal and vertical joints.</u>			
29	Extra over brickwork for face brickwork (LI)	m2	212
30	Extra over brickwork to beamfilling for face brickwork (LI)	m2	9
31	Extra over brickwork for face brickwork to piers and pilasters (LI)	m2	8
32	Fair raking cutting (LI)	m	40
Carried Forward			R
Section No. 2: Building Works Bill No. 3 Masonry			

Brought Forward			R
<u>Brick-on-edge header course copings, sills, etc. of face bricks "Corobrik Redwood satin FBS" or similar and approved pointed with recessed joints on all exposed faces.</u>			
33	Extra over brickwork for brick-on-edge header course lintel (LI)	m	168
34	External window sill, 110mm wide set sloping in cement mortar and pointing on top and front edge including all necessary fair raking cutting to facings under and fair and fitted ends (LI)	m	61
<u>FIBRE-CEMENT WINDOW SILLS</u>			
<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc</u>			
35	12 x 225mm Wide sills set flat and slightly projecting	m	61
<u>PRECAST CONCRETE COPINGS ETC</u>			
<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
36	270 x 65mm Thick overall copings "Modcon - Type 002a" or similar and approved weathered on top to 50mm thick along one edge, with drip groove in bottom along one edge	m	41
37	Extra over for fair returned stopped end block	No	4
38	Extra over for mitred angle block	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 3			
Masonry			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls (LI)	m2	278	
2	On walls, stepped up in cavities, under sills, around door frames etc (LI)	m2	45	
	<u>One layer of 250 micron waterproof sheeting sealed at laps with approved tape</u>			
3	Under surface beds	m2	868	
	<u>WATERPROOFING TO ROOFS ETC</u>			
	<u>Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spunbonded polyester fabric and coated with polyethelene film for heat bonding, laid with 100mm side and 150mm end laps</u>			
4	On flat roofs	m2	4	
5	On turn-ups and turn-downs exceeding 300mm girth edit this	m2	6	
	Carried Forward		R	
	Section No. 2: Building Works			
	Bill No. 4			
	Waterproofing			

Brought Forward			R
<u>Two coats bituminous aluminium paint</u>			
6	On waterproofing to roofs	m2	10
<u>JOINT SEALANTS ETC</u>			
<u>Clear silicone sealer</u>			
7	In joints between worktops and sanitary fittings, etc (LI)	m	90
<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2: Building Works</p> <p>Bill No. 4</p> <p>Waterproofing</p>			R

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 5</u>			
<u>ROOF COVERINGS ETC</u>			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<u>Supplementary Preambles:</u>			
Notes :			
The following roof sheeting systems are to be installed in strict accordance with the Manufacturer's and/or Supplier's specifications.			
Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved Instruction Book.			
The Manufacturer shall comply with ISO9002 Quality Management System.			
A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection of concealed-fix roofing by the Manufacturer			
<u>0,58mm "Klip-lok 406 chromadek Z200 - Dove Grey" or similar and approved roof sheeting and fixed to timber purlins using clips and fasteners, in strict accordance with manufacturer's specifications by an Approved Contractor. A written and approved five-year guarantee of watertightness shall be issued after approval of roofs by the manufacturer</u>			
1	Roof covering with pitch not exceeding 5 degrees, in transportable lengths not exceeding 20m fixed to timber/steel purlins.	m2	1 109
<u>Steel sheet accessories to preceding roof coverings</u>			
2	Ridge cappings 462mm girth	m	40
3	Valley flashings 462mm girth	m	21
4	Head wall flashings 462mm girth	m	152
Carried Forward			R
Section No. 2: Building Works Bill No. 5 Roof Coverings, etc			

Brought Forward

R

5	Narrow and broad flute closers	m	232
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6	Narrow and broad flute closers, raking at valleys or hips	m	42
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7	Moulded narrow and broad rib polyethelene filler blocks	m	232
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8	Moulded narrow and broad rib polyethelene filler blocks, raking at valleys or hips	m	42
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ROOF AND WALL INSULATION

"Alububle" or similar and approved double sided reflective foil radiant barrier layed to the manufacturer's specification

9	Insulation laid taut over purlins (at approximately 1,1m centres) and fixed concurrent with roof covering including white plastic coated straining wires	m2	1 109
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Carried Forward to Summary of Section No. 2

R

Section No. 2: Building Works

Bill No. 5

Roof Coverings, etc

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
NOTE: TIMBER: (ALL SOFTWOOD TO BE SOUTH AFRICAN PINE):			
<u>NOTE:DESCRIPTONS:</u>			
The term "planted on" shall mean nailing of one timber member to another.			
The term "screwed on" shall mean the countersunk screwing of one timber member to another.			
The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted.			
Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting.			
Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.			
Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to brickwork or concrete.			
<u>NOTE:Decorative laminate finish:</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt joined at junctions with adjacent similar finish.			
Carried Forward		R	
Section No. 2: Building Works Bill No. 6 Carpentry and Joinery			

<p style="text-align: center;">Brought Forward</p> <p>NOTE:ROOFS, ETC.:</p> <p>NOTE:PREFABRICATED METAL CONNECTOR TIMBER ROOF TRUSSES:</p> <p>Prices must include fees to the project Consultant Engineer for the approval of proposed truss designs, to be paid by the Contractor . Trusses are to comply with the following specifications:</p> <p>NOTE:SPECIFICATION FOR MONO PLANER PREFABRICATED METAL CONNECTOR TIMBER ROOF TRUSSES:</p> <p>All trusses are to be fabricated in a factory by specialists approved by the Consultant Engineer.</p> <p>NOTE:Timber:</p> <p>Timber for trusses to be South african pine and shall be in accordance with grade V4 or M4 as defined in SABS Specification No. 563, or V6, M6, M8 or M10 as defined in SABS Specification No. 1245 and shall be marked as laid down in the specification.</p> <p>NOTE:Metal connector plates:</p> <p>The metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanized steel.</p> <p>The steel shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 MPa. The corrosion resisting coating shall be not less than 275 g/m2 class C hot dipped galvanizing as per SABS 934 before stamping.</p> <p>The permissible load to be transmitted in the South African pine by the connector plates shall be obtained from the results of tests carried out by a recognised authority such as the National Timber Research Institute of the CSIR.</p> <p>NOTE:Truss construction:</p> <p>The trusses shall be constructed with jigs specially designed to provide correct cambers and pitches.</p>	<p style="text-align: center;">R</p>
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2: Building Works Bill No. 6 Carpentry and Joinery</p>	<p style="text-align: center;">R</p>

<p style="text-align: center;">Brought Forward</p> <p>All joints are to be close fitted butt joints and made by precision pressing of the metal connector plates into each side of the joint simultaneously.</p> <p>The minimum size of all members must not be less than 25 x 75mm wide.</p> <p>NOTE:General:</p> <p>The timber roof trusses shall be fabricated in a PROPERLY EQUIPPED FACTORY by an approved specialist firm of Truss Fabricators using toothed metal plate connectors.</p> <p>The firm shall hold a Certificate of Competence issued by the Institute for Timber Construction (formerly the Truss Plate Association of Southern Africa), a copy of such certificate to be lodged with the Consultant Engineer.</p> <p>The drawings of the roof structure, indicating also proposed truss spacing, which shall be signed by a registered professional Engineer, shall be submitted by the truss fabricator to the Consultant Engineer for approval, prior to manufacture of the trusses.</p> <p>The fabricator SHALL TAKE FULL RESPONSIBILITY FOR THE DESIGN AND ERECTION. Design calculations shall be available on request.</p> <p>A schedule of rates must be submitted with the offer and shall include for the supply of all timber of the required grade and type including all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, prefabrication of the trusses in a jig, checking the completed truss for quality, loading up, transporting to the site of the works and:</p> <p>(i) unloading and storing under cover and protected from the weather;</p>	R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2: Building Works Bill No. 6 Carpentry and Joinery</p>	R	

<p style="text-align: center;">Brought Forward</p> <p>(ii) hoisting up and erecting the trusses at the required truss centres truly plumb and square on top of wall plates, all in accordance with site instructions supplied by the truss fabricator regarding erection, bracing, holding down and all necessary connections; Note: The trusses are to be erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the National timber Research Institute of the CSIR.</p> <p>(iii) Such site supervision as deemed necessary to ensure that all the erection details have been complied with.</p> <p>NOTE: Truss design:</p> <p>A certificate stating that the trusses have been designed in accordance with SABS 0160 and SABS 0163 shall be provided to the Consultant Engineer through the Contractor and is to be signed by the Truss Designer.</p> <p>Over and above the foregoing, the Truss Designer shall also be responsible for the correct erection and on completion shall provide a certificate to the Consultant Engineer to confirm that the completed roof is in accordance with the relevant specifications and to the satisfaction of the Truss Designer.</p> <p>Notwithstanding the furnishing of the above certificate, the Contractor shall bear contractual responsibility for the adequacy of the constructed roof and he shall indemnify the Department against any loss, consequential or otherwise, arising out of such responsibility, including any latent defects.</p> <p>The dead load shall comprise of: (i) Corrugated iron roof sheeting. (ii) Self weight of truss. (iii) Weight of purlins and bracing. (iv) Ceiling insulation. (v) 6mm Thick asbestos or gypsum ceiling board.</p> <p>NOTE: Truss spacing:</p> <p>The truss centres shall be as designed by the Manufacturer, to the approval of the Consultant Engineer.</p>	<p style="text-align: center;">R</p>
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2: Building Works Bill No. 6 Carpentry and Joinery</p>	<p style="text-align: center;">R</p>

<p style="text-align: right;">Brought Forward</p> <p>NOTE:</p> <p>Trusses are to be "Hydronail or Gangnail" prefabricated timber trusses with all members joined together with steel plates. All timbers to be wrot.</p> <p>The roof is to be erected in accordance with the relevant drawings.</p> <p>Prices are to include for all necessary trusses, rafters, ties and bracings complete.</p> <p>The roof is to be designed to carry 'IBR' roofing sheets with trusses at approximately 1200 mm centres and pitched at 25 degrees</p> <p>The Contractor may be required to produce design calculations for checking, notwithstanding which, he will be held solely responsible for sufficiency of design</p> <p>All dimensions given are approximate and should not be used for design or ordering purposes.</p> <p>NOTE:Truss pitch:</p> <p>The truss pitch shall be as described in the Bills of Quantities or as specified on the Architect's or Engineers' drawings for each respective truss type.</p> <p>NOTE:Composite structure:</p> <p>Under no circumstances will it be accepted that the ceiling brandering is to be relied upon to assist in the structural stability of the trusses.</p> <p>NOTE:Precedent clause:</p>	<p style="text-align: right;">R</p>
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2: Building Works Bill No. 6 Carpentry and Joinery</p>	<p style="text-align: right;">R</p>

Brought Forward	R
<p>In the event of conflict between the various specifications, the consecutive order of the specifications listed in the following list shall take precedence:</p> <p>(i) The Engineer's detailed drawings.</p> <p>(ii) The project and/or extra specifications.</p> <p>(iii) The standard specifications SABS 1200. (iv) The Quantity Surveyor's preambles in this Bill of Quantities.</p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>ROOFS ETC</u></p> <p><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></p>	
Carried Forward	R
<p>Section No. 2: Building Works</p> <p>Bill No. 6</p> <p>Carpentry and Joinery</p>	

Brought Forward			R
<u>Roof construction</u>			
1	Roof construction to mono pitched roof with parapet walls, 8,850 x 4,460mm and 1,055mm high overall including trusses, permanent bracing, wall plates, purlins, etc. (Guard House)	No	1
<u>FASCIAS AND BARGE BOARDS:</u>			
<u>"Nutec" fibre cement fascia board</u>			
2	10 x 225mm Fascia board countersunk screwed to support and roof timbers (elsewhere) with one brass screw at maximum 750mm centres and jointed with and including standard aluminium half round cover strips at all joints.	m	81
<u>FLOORS AND SKIRTINGS</u>			
<u>SKIRTINGS</u>			
<u>Wrought meranti</u>			
3	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor.	m	335
<u>DOORS</u>			
<u>Hollow core flush doors with 3,2mm plain hardboard covering on both sides, hung to steel frames</u>			
4	40 x 813 x 2030mm Door	No	6
5	40 x 813 x 2400mm Door	No	13
6	40 x 864 x 2400mm Door	No	4
7	40 x 1613 x 2400mm Double Door	No	3
<u>Semi-solid flush doors with 3,2mm plain hardboard covering on both sides, hung to steel frames</u>			
8	40 x 762 x 2030mm Door	No	1
9	40 x 864 x 2030mm Door	No	1
Carried Forward			R
Section No. 2: Building Works Bill No. 6 Carpentry and Joinery			

Section No. 2: Building Works
Bill No. 6
Carpentry and Joinery

Brought Forward			R
15	Sink cupboard, 3000 x 600 x 900mm high with top, sides, bottom, divisions, shelf, back and single hinged doors, dividing framework, etc., (sink elsewhere), (Kitchen)	No	1
16	Floor cupboard, 1000 x 600 x 900mm high with top, sides, bottom, divisions, shelf, back, drawers and hinged doors (Guard house - basin, drawing number: 10 of 10)	No	1
17	Floor cupboard, 5000 x 600 x 900mm high with top, sides, bottom, divisions, shelf, back, drawers and hinged doors (Kitchen - L-shaped)	No	1
<u>The sides, shelves and front to be PG bison melawood supagloss (colour as per drawings), handles to be roco neptune aluminium brushed nickel finish</u>			
18	Wall cupboard, 1455 x 350 x 524mm high with top, sides, bottom, divisions, shelf, back, drawers and hinged doors (Guard house, drawing number: 10 of 10)	No	1
19	Built-in cupboard, 500 x 600 x 2100mm high with top, sides, bottom, divisions, shelf, back and hinged doors (Guard house, drawing number: 10 of 10)	No	1
<u>COUNTERS, WORKTOPS, ETC</u>			
20	Desk, 600 x 1000mm high made of 32mm thick PG bison formica lifeseal worktop - raven slate, including roco satin chrome table legs at 1500mm centres, etc., (Study Room, Audio Visual Room, Computer Room and Guard House)	m	38
21	Reception counter, 6380 x 950 x 1500mm high with top, sides, bottom, division, shelf, back, etc. (Printing Area)	No	1
22	Reception counter, 8150 x 950 x 1500mm high with top, sides, bottom, division, shelf, back, etc. (Reception)	No	1
<u>BENCHES</u>			
<u>Wrought meranti</u>			
23	Slatted seats 500 x 500mm high of 75 x 50mm including galvanised steel frame support, etc.	m	10
Carried Forward			R
Section No. 2: Building Works Bill No. 6 Carpentry and Joinery			

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
For Preambles see "Model Preamble for Trades"			
<u>SUPPLEMENTARY PREAMBLES</u>			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
<u>CEILINGS ETC</u>			
<u>NAILED UP CEILINGS</u>			
<u>12.5mm Gypsum plasterboard with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</u>			
1	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres in one direction (LI)	m2	30
2	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery (LI)	No	2
Carried Forward			R
Section No. 2: Building Works Bill No. 7 Ceilings, Partitions and Access Flooring			

	Brought Forward			R
	<u>Gypsum plasterboard cornices</u>			
3	50mm Coved cornices (LI)	m	52	
	<u>SUSPENDED CEILINGS</u>			
	<u>1200 x 600 x 10mm Thick "Gyptone Tile Line 4" acoustic ceiling panels on exposed "Gyptone Edge A" suspension grid system including hangers, necessary hold-down clips and wedges, etc</u>			
4	Ceilings suspended not exceeding 1m below steel trusses (LI)	m2	421	
	<u>12,5mm Gypsum plasterboard on screw-up tee suspension grid including hangers etc, with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</u>			
5	Ceilings including standard steel brandering at 600mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc	m2	310	
6	Bulkheads 500mm high including standard steel brandering at 600mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc	m2	55	
7	Vertical bulkheads including standard steel brandering at 600mm centres in one direction only, joined with joiner sections and hung with suspension brackets	m2	35	
	<u>Extra over</u>			
8	Extra over ceiling for opening for 75mm diameter downlighter	No	30	
9	Extra over ceiling for opening for 180mm diameter downlighter	No	106	
10	Extra over ceiling for opening for 1200 x 600mm light fitting	No	70	
11	Extra over ceiling for 1200 x 600mm opening for ventilation grille/air conditioning diffuser	No	4	
	Carried Forward			R
	Section No. 2: Building Works Bill No. 7 Ceilings, Partitions and Access Flooring			

Brought Forward			R
<u>Cornices, perimeter trims, etc to suspended ceilings</u>			
12	"Shadow line" pre-painted wall angles, plugged (LI)	m	605
<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
<u>"Alutherm AF" or similar and approved non-combustible fibreglass insulation</u>			
13	100mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of ceilings, etc	m2	816
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 7			
Ceilings, Partitions and Access Flooring			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 8</u>			
<u>FLOOR COVERING, PLASTIC LINING, ETC</u>			
<u>PREAMBLES</u>			
For Preambles see "Model Preamble for Trades"			
<u>SUPPLEMENTARY PREAMBLES</u>			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect			
<u>FLOOR COVERINGS</u>			
<u>2,5mm Thick x 2m wide FloorworX Eclipse PUR homogeneous vinyl sheeting with PUR reinforced surface treatment, manufactured in accordance with EN 649 and laid in FloorworX No. 62 acrylic adhesive which has been spread using a trowel fiited with an A2 notched blade at a rate of 5,5m2 and 6,5m2 per litre on previously prepared Class 1 sub-floor in accordance with SANS 10070, using a reliable self-leveller (measured elsewhere), including all cutting and waste. The sheeting must be rolled in both directions with articulated 68kg three-sectional roller immediately after has it has been laid into the adhesive. Joins must be butted, grooved and heat welded using the manufacturer's colour-matched multi-colour welding rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness, To be fixed by an approved specialist contractor who shall provide a written guarantee.</u>			
1	On floors	m2	716
<u>POLISH, SEALERS, ETC</u>			
<u>Three coats of water emulsion polish, including buffing after application of each coat of polish</u>			
2	On floors	m2	716
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 8			
Floor Coverings, Plastic Linings, etc			

[illegible]

Brought Forward			R
<u>"Dormakaba" or similar and approved</u>			
6	Dormakaba Bathroom sash lock. Case, dimensions 102 x 78mm. Forend, dimensions 155 x 22mm. Backset 57mm. Centres 57mm (Product code: D035S SS)	No	11
7	Dormakaba Bathroom deadlock. Case, dimensions 102 x 78mm. Forend, dimensions 155 x 22mm. Backset 57mm. (Product code: D032D SS)	No	4
8	Dormakaba Sliding door lock (Backset 55mm, Forend 22mm) (Product code: DSL 401)	No	1
9	Dormakaba Cylinder sash lock. case, dimensions 116.5 x 78mm.and forend, dimensions 168 x 22mm and backset 57mm and centres 61mm. (Product code: D036S SS)	No	6
10	Dormakaba Cylinder deadlock. Case dimensions 116.5 x 78mm. Forend dimensions 168 x 22mm. Backset 57mm (Product code: D037D SS)	No	2
11	Dormakaba 63mm – 31,5 + 31,5mm Europrofile nickel plated E-SP 5 pin double cylinder - master keyed (Product code: DDC206301 MK)	No	7
12	Dormakaba 40.5 - Europrofile nickel plated ESP 5 Pin single cylinder - master keyed (Product code: DSC204101 MK)	No	2
13	Dormakaba 45mm - E-SP Chrome padlock with 8mm stainless steel shackle 30mm clearance - master keyed (Product code: DPL2000 MK)	No	1
<u>HANDLES</u>			
<u>"Dormakaba" or similar and approved</u>			
14	Dormakaba 62 x 44mm Ring flush pull handle (Product code: DRP-SS-023)	No	2
15	Dormakaba 102 x 50mm Rectangular flush pull handle (Product code: DFP-SS-026)	No	4
16	Dormakaba Lever handle on rose with bathroom/WC furniture (Product code: TH125 WC S.S)	No	11
Carried Forward			R
Section No. 2: Building Works Bill No. 9 Ironmongery			

	Brought Forward			R
17	Dormakaba Lever handle on rose with cylinder escutcheons (Product code: TH125 Cyl S.S)	No	9	
18	Dormakaba 325 x 25mm Straight tubular pull handle flange fixing (Product code: DPH301B)	No	8	
19	Dormakaba DPH301C Pull handle BT fixed on a 150 x 300 x 1,2mm thick Grade 430 stainless steel plate with no cylinder cutout. Stainless steel plate to have 6 countersunk holes for screw fixing (Product code: DHP-430-BL-SF 150X300)	No	7	
<u>DOOR CLOSERS</u>				
<u>"Dormakaba" or similar and approved</u>				
20	Dormakaba EN 3/4 Cam action slide channel NON HOLD OPEN door closer – hydraulic speed control. Pull side - leaf or transom fixing; push side - leaf or transom fixing. EN3 850-950, EN4 950-1100 (Product code: TS90 – SL)	No	6	
21	Dormakaba EN 2-4 Parallel arm DELAYED ACTION door closer. Push side fixing (Parallel Arm Bracket Included) EN2 750-850, EN3 850-950, EN4 950-1100 (Product code: TS73V PA DC - PAB – SL)	No	4	
22	Dormakaba EN 2-4 Regular Arm DELAYED ACTION door closer. Pull side fixing EN2 750-850, EN3 850-950, EN4 950-1100 (Product code: TS73V DC- SL)	No	1	
<u>LETTERS, NAMEPLATES, ETC. (PROVISIONAL):</u>				
<u>150 x 150 x 3mm Thick clear perspex name plate reverse engraved and twice countersunk holed for and screwed to door with chromium plated dome headed screws in enamelled lettering</u>				
23	Room numbers not exceeding three numerals or letters	No	48	
<u>Clear perspex name plate reverse engraved and twice countersunk holed for and screwed to door with chromium plated dome headed screws in enamelled lettering</u>				
24	300 x 150 x 5mm Thick name plates on doors	No	48	
Carried Forward				R
Section No. 2: Building Works Bill No. 9 Ironmongery				

Brought Forward			R
<u>"Dormakaba" or similar and approved</u>			
25	Dormakaba 150 x 150mm FEMALE/MALE/DISABLED PERSONS sign including 4 of M4 patent male/female fixing screws (Product code: DSS-131 F/ DSS-130 M/DSS-133 P/DSS-132 MF)	No 11	
<u>SUNDRIES</u>			
26	Dormakaba Floor mounted door stop (Product code: DDS-NP-018)	No 56	
27	Dormakaba Dust proof strike (Product code: DPS-SS-032)	No 3	
28	Dormakaba Hat and coat hook with rubber buffer (Product code: DHC-SS-031B)	No 11	
<u>BATHROOM FITTINGS</u>			
<u>"Franke" or equal and approved</u>			
29	Franke RODX 619 (Code: 2120095) soap dispenser plugged to wall	No 12	
30	Franke RODX 605 (Code: 2120097) waste bin plugged to wall	No 12	
31	Franke RODX 672 (Code: 2120101) two roll lockable type toilet roll dispenser plugged to wall	No 15	
32	Franke HF2400HD (Code:2500002) automatic hand dryer with infrared sensor plugged to wall	No 12	
<u>"Railman Grabrails" or equal and approved</u>			
33	Stainless steel wall-mounted side grab rail (code DL 2)	No 4	
34	Stainless steel wall-mounted rear grab rail (code SR 2)	No 4	
35	Stainless steel wall-mounted grab rail, 500mm long (code SR 5)	No 4	
<u>PUSH PLATES AND KICKING PLATES</u>			
Carried Forward			R
Section No. 2: Building Works Bill No. 9 Ironmongery			

Brought Forward			R
<u>"Dormakaba" or similar and approved</u>			
36	Dormakaba 150 x 300 x 1,2mm Thick Grade 430 stainless steel push plate. Stainless steel slate to have 6 countersunk holes for screw fixing (Product code: DPP-430-BL-SF 150X300)	No	7
37	Dormakaba 200 x 813 x 1,2mm thick Grade 430 stainless steel kick plate. Stainless steel Kick plate to have 10 countersunk holes for screw fixing (Product code: DKP-430-SF 200)	No	12
38	Dormakaba 200 x 864 x 1,2mm thick Grade 430 stainless steel kick plate. Stainless steel Kick plate to have 10 countersunk holes for screw fixing (Product code: DKP-430-SF 200)	No	10
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>			
39	1500 x 1200mm anodised aluminium frame, info pin boards, set out 50mm off set on both sides or magnetic white board	No	11
40	2400 x 1200mm anodised aluminium frame, magnetic white board. Marker board surface, wall mounted, complete with integrated pen tray.	No	3
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 9			
Ironmongery			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>STEEL SCREEN</u>			
	<u>Steel screens to open court yards</u>			
1	Steel screen to court yards 2700mm high, made of 50 x 25 x 2,5mm horizontal hollow steel sections spaced at 150mm centre to centre and welded onto vertical steel support columns (measured elsewhere) as per details	m	28	
2	100 x 100 x 3mm Square hollow section columns embedded on concrete as per the Engineers details	t	0.83	
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated pressed steel door frames suitable for half brick walls</u>			
3	Frame for door size 813 x 2030mm high with two 100mm steel butts - hinge pins to be welded	No	6	
4	Frame for door size 813 x 2400mm high with two 100mm steel butts - hinge pins to be welded	No	15	
5	Frame for door size 864 x 2030mm high with two 100mm steel butts - hinge pins to be welded	No	1	
	Carried Forward			
	Section No. 2: Building Works Bill No. 10 Metalwork		R	

Brought Forward			R
<u>1,6mm Double rebated pressed steel door frames suitable for one brick walls:</u>			
6	Frame for door size 762 x 2030mm high with two 100mm steel butts - hinge pins to be welded	No	1
7	Frame for door size 762 x 2400mm high with two 100mm steel butts - hinge pins to be welded	No	1
8	Frame for door size 813 x 2400mm high with two 100mm steel butts - hinge pins to be welded	No	3
9	Frame for double door size 1613 x 2400mm high with two 100mm steel butts - hinge pins to be welded to both sides	No	3
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>			
<u>Note</u>			
Refer to attached window and door schedules for details of the windows, doors and shopfronts			
<u>ALUMINIUM WINDOWS</u>			
<u>Powder coated window units (colour: Black) complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete openings, glazed with 6.38mm SunGuard Solar Light Blue 52 laminated safety glass or 6.38mm laminated clear safety glass</u>			
10	Window (W03), 900 x 510mm high	No	13
11	Window (W04), 745 x 510mm high	No	2
12	Window (W05), 1990 x 510mm high	No	1
13	Window (W06), 1890 x 510mm high	No	1
14	Window (W09), 2900 x 680mm high	No	4
15	Window (W10), 1090 x 1785mm high	No	1
16	Window (W11), 2805 x 1785mm high	No	2
Carried Forward			R
Section No. 2: Building Works Bill No. 10 Metalwork			

	Brought Forward			R
17	Window (W12), 2050 x 1785mm high	No	2	
18	Window (W13), 1100 x 1360mm high	No	1	
19	Window (W14), 1910 x 680mm high	No	1	
20	Window (W16), 5000 x 680mm high	No	1	
21	Window (W18), 3790 x 2040mm high	No	1	
22	Window (W01 - GH), 500 x 1200mm high	No	2	
23	Window (W01a - GH), 500 x 1200mm high	No	1	
24	Window (W02 - GH), 2000 x 500mm high	No	1	
25	Purpose made U-shaped window (W03 - GH), 6460 x 1665mm high overall as per the window schedule	No	1	
<u>ALUMINIUM DOORS</u>				
<u>Powder coated door units (colour: Black) complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete openings, glazed with 6.38mm SunGuard Solar Light Blue 52 laminated safety glass or 6.38mm laminated clear safety glass</u>				
26	Aluminium double door (D01), 2900 x 2720mm high overall	No	2	
27	Aluminium double door (D07), 1800 x 2720mm high overall	No	2	
28	Aluminium door (D06), 900 x 2465mm high overall	No	5	
29	Aluminium door (D10a), 1200 x 2465mm high overall with sidelight	No	1	
30	Aluminium door (D10b), 1775 x 2465mm high overall with sidelight	No	2	
31	Aluminium door (D10c), 1500 x 2465mm high overall with sidelight	No	2	
Carried Forward				R
Section No. 2: Building Works Bill No. 10 Metalwork				

	Brought Forward			R
32	Aluminium door (D10d), 3415 x 2465mm high overall with sidelight	No	1	
33	Aluminium double door (D11), 1800 x 3400mm high overall with toplight	No	1	
<u>CURTAIN WALLS, SHOPFRONTS, ETC</u>				
<u>ALUMINIUM SHOPFRONTS</u>				
<u>Powder coated door units (colour: Black) complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete openings, glazed with 6.38mm SunGuard Solar Light Blue 52 laminated safety glass or 6.38mm laminated clear safety glass</u>				
34	Purpose made shopfront, 2900 x 2720mm high (W01)	No	5	
35	Purpose made shopfront, 2750 x 2720mm high (W02)	No	3	
36	Purpose made shopfront, 6030 x 2720mm high (W07)	No	1	
37	Purpose made shopfront, 2100 x 2720mm high (W08)	No	2	
38	Purpose made shopfront, 2690 x 2720mm high (W15)	No	2	
39	Purpose made shopfront, 3975 x 2720mm high (W17)	No	1	
40	Purpose made shopfront, 3400 x 3400mm high (W19)	No	1	
<u>ROLLER SHUTTERS, ETC</u>				
<u>Aluminium roller-shutter door fixed to brickwork or concrete</u>				
41	Manual push-up grille type roller shutter for opening size 3000 x 990mm high internal face mounted, complete with overhead box 285mm high, centre lock, guide rails, etc	No	1	
Carried Forward				R
Section No. 2: Building Works Bill No. 10 Metalwork				

Section No. 2: Building Works
Bill No. 10
Metalwork

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 11</u>			
<u>STRUCTURAL STEELWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.			
<u>STEEL TRUSSES</u>			
<u>Welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel</u>			
1	Lattice trusses 2,7m long x 0,8m high extreme (Truss 5 and 2 in number)	t 0.22	
2	Lattice trusses 4m long x 0,8m high extreme (Truss 4 and 1 in number)	t 0.16	
3	Lattice trusses 5,1m long x 0,8m high extreme (Truss 11 and 2 in number)	t 0.37	
Carried Forward			R
Section No. 2: Building Works Bill No. 11 Structural Steelwork			

	Brought Forward			R
4	Lattice trusses 5,7m long x 0,8m high extreme (Truss 10 and 6 in number)	t	1.27	
5	Lattice trusses 6,6m long x 0,8m high extreme (Truss 7 and 3 in number)	t	0.75	
6	Lattice trusses 7,6m long x 0,8m high extreme (Truss 6 and 1 in number)	t	0.30	
7	Lattice trusses 8,7m long x 0,8m high extreme (Truss 8 and 1 in number)	t	0.33	
8	Lattice trusses 9,8m long x 0,8m high extreme (Truss 9 and 1 in number)	t	0.39	
9	Lattice trusses 24,8m long x 1m high extreme (Truss 1 and 1 in number)	t	0.98	
10	Lattice trusses in two sections bolted together, 24m long x 1m high extreme (Truss 2 and 3 in number)	t	2.58	
11	Lattice trusses in two sections bolted together, 18,6m long x 1m high extreme (Truss 3 and 2 in number)	t	1.38	
<u>PURLINS, GIRTS, BRACING, ETC</u>				
<u>Purlins and girts bolted to steel</u>				
12	100 x 75 x 20 x 2.5mm cold formed lipped channel section purlins at 700mm c/c fixed to 6mm cleats to suit with M16 bolts, cleats welded to rafter	t	5.82	
13	60 x 60 x 4L cross bracing	t	1.00	
<u>Bolts to columns, beams, etc</u>				
14	High tensile bolts (class 8.8)	t	1.00	
Carried Forward to Summary of Section No. 2				R
Section No. 2: Building Works				
Bill No. 11				
Structural Steelwork				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 12</u>			
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
	<u>Preparation of floor</u>			
1	Prepare cement screed to receive vinyl flooring by applying "LeveliTe F30" or equal and approved commercial grade self-leveling compound.	m2	716	
	<u>Cement screeds wood floated on concrete</u>			
2	25mm Thick on floors and landings (LI)	m2	100	
3	30mm Thick on floors and landings (LI)	m2	716	
4	Average 50mm thick on floors with upper surface to falls	m2	56	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
5	On walls (LI)	m2	2 907	
6	On ceilings	m2	4	
7	On projecting and isolated columns	m2	12	
8	On projecting and isolated beams	m2	34	
9	On narrow widths not exceeding 300mm wide (LI)	m2	39	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
10	On walls (LI)	m2	1 010	
11	On projecting and isolated columns	m2	18	
	Carried Forward		R	
	Section No. 2: Building Works Bill No. 12 Plastering			

[illegible]

Item No		Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BILL NO. 13</u>				
<u>TILING</u>				
NOTE:Descriptions:Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding.				
<u>WALL TILING</u>				
<u>Gloss ceramic tiles (allow a PC: R400/m2) fixed with adhesive to plaster (plaster elsewhere):</u>				
1	On walls (LI)	m2	531	
2	On walls in isolated panels, splashbacks, etc (LI)	m2	7	
3	On narrow widths (LI)	m2	1	
<u>Mosaic/accent tiles (allow a PC: R500/m2) fixed with adhesive to plaster (plaster elsewhere):</u>				
4	On walls (LI)	m2	42	
5	On walls in isolated panels, splashbacks, etc (LI)	m2	4	
6	On narrow widths (LI)	m2	6	
<u>FLOOR TILING</u>				
<u>Porcelain non slip tiles (allow a PC: R450/m2) bedded and jointed on screeds (measured separately) with adhesive in strict accordance with manufacturer's recommendations.</u>				
7	On floors (LI)	m2	100	
8	Cut tile skirting 100mm high (LI)	m	209	
Carried Forward				R
Section No. 2: Building Works Bill No. 13 Tiling				

Brought Forward			R
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
9	5 x 40mm Flat section brass dividing strips between different floor finishes (LI)	m	59
10	3 x 10 x 25mm Angle section aluminium wall tiles coping strip (LI)	m	177
11	10mm Aluminium listello trim (between different wall tiles).	m	174
12	10mm Aluminium square edge trim (to all exposed corners of wall tiles)	m	12
Carried Forward to Summary of Section No. 2			R
Section No. 2: Building Works			
Bill No. 13			
Tiling			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 14</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>uPVC pipes and fittings:</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
<u>uPVC pressure pipes and fittings:</u>			
Pipes for water supply shall be of the class stated			
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings			
Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints			
<u>Copper pipes:</u>			
Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" or similar and approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level			
Carried Forward		R	
Section No. 2: Building Works Bill No. 14 Plumbing and Drainage			

Brought Forward	R
<p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p>	
Carried Forward	R
<p>Section No. 2: Building Works Bill No. 14 Plumbing and Drainage</p>	

<p style="text-align: right;">Brought Forward</p> <p><u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc</p>	<p style="text-align: right;">R</p>
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2: Building Works Bill No. 14 Plumbing and Drainage</p>	<p style="text-align: right;">R</p>

Brought Forward			R
<u>RAINWATER DISPOSAL</u>			
<u>0,6mm Galvanized sheet iron Class Z 275</u>			
1	100 x 125mm Rectangular section eaves gutter with 20mm wide overlapping joints sealed with and including "Compriband" or other approved sealing strip and rivetted at 20mm centres.	m	81
2	Extra over 100 x 125mm eaves gutter for stopped end.	No	18
3	Extra over 100 x 125mm eaves gutter for internal angle.	No	2
4	Extra over 100 x 125mm eaves gutter for outlet for 100 x 76mm downpipe including galvanized wire balloon grating.	No	18
5	100mm x 76mm Rainwater pipe with brackets fixed to brick wall or concrete.	m	54
6	Extra over 100 x 76mm rainwater pipe for shoe.	No	18
7	Extra over 100 x 76mm rainwater pipe for eaves or plinth offset 500mm projection.	No	18
<u>Roof outlets</u>			
8	80 x 180 Degree "Saint Gobain", or equal approved, full flow centre bolt outlet threaded with ductile iron dome grate	No	2
<u>SANITARY FITTINGS</u>			
<u>Stainless steel</u>			
<u>"Franke" or similar and approved</u>			
9	Franke Nouveau (Code: 1990001) single bowl sink complete	No	2
10	Franke Nouveau (Code: 1990002), or equal approved, double bowl sink complete	No	1
11	Franke CH (Code: 2630035) Slophopper 540 x 540mm manufactured from grade 304 (18/10) stainless steel 1,2mm thick with a 100mm high integral splash back to the rear and both sides	No	1
Carried Forward			R
Section No. 2: Building Works Bill No. 14 Plumbing and Drainage			

Brought Forward			R
<u>"Cobra" or "Vaal" or "Grohe" or similar and approved</u>			
12	"Cobra" Shelter round wall hung basin. 495 x 430mm wide. With 1 pre-punched tap hole in the centre of the basin. (Product code: 709300WH)	No	12
13	"Vaal" Orchid Toilet pan wall hung back inlet closed rim pan. Compatible with concealed cistern, duct cistern or concealed flush valve. Designed to flush effectively on 6/3L (Product code: 439550WH)	No	4
14	"Cobra" Snug Urinal Anti-splash flushing design with an efficient 1.9L flush. Versatile top or back entry installation. Compact concealed trapway. Suitable for commercial use. P-trap, hanging bracket set, braided hose 254mm and top inlet connection G1/2 included. (Product code: 705600WH)	No	3
15	"Grohe" Bau ceramic wall hung water closet (39 427 000) for concealed cistern horizontal outlet wash down rimless flush volume 3/6 l sanitary ware Bau Ceramic WC seat (39 493 000) soft close quick release function detachable material: Duroplast including fixation set	No	11
<u>WASTE UNIONS, ETC.</u>			
<u>"Cobra Watertech"</u>			
16	"Cobra Waste - sink unslotted. With flanged back nut and washer, plug with stirrup. 86mm Ø flange, 93mm long shank. 1 1/2BSP Male iron connection end.(Product code: 311/N)	No	4
17	"Cobra" Waste – basin slotted. with flanged back nut and washer, plug with stirrup, chain and stay. 62mm Å flange, 80mm long shank. 1 1/4BSP Male iron connection end. (Product code: 301/N)	No	15
<u>TRAPS, ETC.:</u>			
<u>Butyl rubber:</u>			
18	40mm Double flexitrap.	No	1
19	110mm Floor drain with 450 x 450mm cast iron grating and housing with spigot to fit 110mm pipe	No	2
Carried Forward			R
Section No. 2: Building Works Bill No. 14 Plumbing and Drainage			

	Brought Forward		R
	<u>"Cobra Watertech":</u>		
20	"VA 2.360" sink "P" trap.	No	2
21	"Cobra" Bottle trap universal with adjustable telescopic waste connection pipe. 1 1/4BSP female inlet connection. 1 1/4BSP male iron outlet connection. Brass body. Comes with waste adaptor 1 1/4 to 1 1/2 BSP & outlet adaptors 1 1/4 & 1 1/2 (Product code: 340/N)	No	15
	<u>TAPS, VALVES, ETC.</u>		
	<u>Brass</u>		
22	25mm Stopcock	No	3
23	15mm Bibcock with hose union	No	3
	<u>"Cobra" or "Grohe" or similar and approved</u>		
24	"Cobra" Angle valve angle regulating valve with durable ABS handle, DZR body, flow regulating spindle type headpart G1/2 X G1/2 BSP connections (Product code: 232-10/N)	No	24
25	"Cobra" Flexi connector, fxf, chrome. (Product code: C-15/350)	No	24
26	"Cobra" Focus Single lever sink mixer with swivel outlet. 1/2 BSP female connection ends (FC-970).	No	3
27	"Cobra" Seine single lever standard basin mixer. Pillar type with single hole. Manufactured with dezincification resistant (DZR) brass. SANS compliant chrome plated finish (nickel plating = 12.0µm; chrome plating = 0.3µm). 15mm flexi-connection ends. 35mm ceramic disc cartridge. Fitted with Neoperl aerator with a flow rate = 7 litres/min at 3 MPa. Convenient tube fixing set. Carries a 10 year warranty. Jaswic Approved (Product code: 5819CH/N)	No	8
	Carried Forward		R
	Section No. 2: Building Works Bill No. 14 Plumbing and Drainage		

	Brought Forward			R
28	"Grohe" Euroeco special single-lever safety basin mixer ½ single hole installation smooth body high version GROHE StarLight chrome finish GROHE EcoJoy technology for less water and perfect flow ceramic cartridge adjustable flow rate limiter adjustable temperature limiter adjustable minimum flow rate 6 l/min. laminar flow straightener 9 l/min metal lever lever length 120 mm rapid installation system flexible connection hoses min. recommended pressure 1.0 bar (32790000)	No	4	
29	"Cobra"Urinal flush valve exposed. Non-hold open feature. With 'Ball O Stop control inlet, wall flange, additional screw and piston for large bowl and stall urinals. 3/4BSP female iron connection end. Recommended optimum design pressures: inlet flow pressure 30 - 500kPa: Maximum system pressure 600kPa (Product code: FJ6-000/N)	No	3	
30	"Cobra" Urinal flush pipe offset, for junior flushmaster urinal flushvalves. 25.4mm diameter inlet adaptor (to be checked), 15mm diameter outlet x 215mm long. 27mm centreline offset. (Product code: FJT5-5/N)	No	3	
31	"Grohe" GD 2 flushing cistern (38 661 000), 6 - 9l adjustable adjustment ex factory 6l and 3l pneumatic discharge valve offering 3 modes of operation: dual flush or tart/stop or single flush water supply from left/right/back or top low noise (group I acc. to German Noise Specification) insulated against condensation 1/2" water supply connection including integrated angle valve and push fit flexible hose union no tools required for the installation of the inspection shaft including protection during construction phase for vertical or horizontal use flush pipe insulated against condensation fixing brackets without flush plate/actuation GROHE EcoJoy technology for less water and perfect flow for mounting of small flush plates including revision shaft (40 911 000) (sold separately)	No	11	
Carried Forward				R
Section No. 2: Building Works Bill No. 14 Plumbing and Drainage				

	Brought Forward			R
32	"Grohe" Skate cosmopolitan water closet wall plate, stainless steel (38732SD0) for dual flush or start & stop actuation for pneumatic discharge valve AV1 vertical installation 156 x 197mm plastic fixing frame hidden fixing screws not suitable for GROHE Fresh GROHE StarLight finish GROHE EcoJoy technology for less water and perfect flow for combination with Rapid SL and Uniset with GD 2 cistern for use with Rapid SLX including shaft (66 791 000) (sold separately)	No	11	
33	"Grohe" Uniset for water closet with flushing cistern 80 mm (38 729 000) 6 - 9l adjustable pneumatic discharge valve offering 3 modes of operation: dual flush or start/stop or single flush PE outlet bend 80 mm inlet and outlet connecting set steel frame, hot galvanized, with 4 fixing brackets 2 WC fixing bolts distance of fixing bolts 180/230 mm fixing device for ceramic water supply connection from top low noise (group I acc. to German Noise Specification) with plaster base coating made of vinyl fleece angle valve 1/2" with push fit flexible hose union shortable inspection shaft including protection during construction phase, for vertical use for mounting of small flush plates including revision shaft (40 949 000) (sold separately)	No	4	
34	"Grohe" Reducer Rapid SL 4 outlet adaptor female black (42 242 000)	No	4	
35	"Grohe" StarLight chrome finish remote hand actuation push button actuation with escutcheon 100 mm vertical and horizontal installation flush plate Surf 156 x 197mm pneumatic hose 1.50m (37 059 000)	No	4	
<u>BUILDER'S WORK, INCLUDING ALL MAKING GOOD</u>				
36	Fair cutting and fittings face bricks around pipe not exceeding 100mm diameter.	No	18	
Carried Forward to Summary of Section No. 2				R
Section No. 2: Building Works				
Bill No. 14				
Plumbing and Drainage				

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NORTHERN CAPE PROVINCE**

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 16</u>			
	<u>PAINTWORK</u>			
	For Preambles see "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	<u>Previously painted plastered surfaces</u>			
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
	<u>Previously painted metal surfaces</u>			
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
	<u>Previously painted wood surfaces</u>			
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
	<u>PAINT SPECIFICATIONS</u>			
	All painting shall be done in accordance with manufacturer's specifications unless otherwise described			
	<u>COLOURS</u>			
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
	Carried Forward		R	
	Section No. 2: Building Works Bill No. 16 Paintwork			

	Brought Forward			R
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>			
1	On internal walls (LI)	m2	2 992	
2	On ceilings and beams	m2	4	
	<u>One coat alkali resistant primer, one coat "Dulux" universal undercoat and two coats "Dulux - Weatherguard" paint for exterior use</u>			
3	On external walls (LI)	m2	1 101	
	<u>ON FAIR FACED BRICKWORK</u>			
	<u>Two coat brick dressing to face bricks</u>			
4	On internal walls	m2	70	
	<u>ON PLASTERBOARD SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
5	On ceilings and cornices (LI)	m2	430	
	<u>ON FIBRE CEMENT</u>			
6	On fascias and barge boards (LI)	m2	41	
	<u>ON METAL</u>			
	<u>One coat self etching primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on galvanised steel</u>			
7	On door frames (LI)	m2	82	
8	On eaves gutters (LI)	m2	31	
9	On rails, bars, pipes, etc exceeding 300mm girth (LI)	m2	22	
	Carried Forward			R
	Section No. 2: Building Works			
	Bill No. 16			
	Paintwork			

	Brought Forward			R
10	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) (LI)	m2	151	
	<u>Two coats of red lead (SABS specification 312) Type 2, Grade 1) or zinc phospe (SABS specification 1319)' each coat with a thickness of at least 25 micron for red lead or 30 micron for zinc phospe and two coats of alkyd based structural steel paint (SABS specification 684, Type B), each coat with a thickness of at least 30 microns</u>			
11	On structural steel (LI)	m2	1 236	
	<u>ON WOOD</u>			
	<u>Three coats superior quality clear gloss varnish</u>			
12	On doors (LI)	m2	47	
13	On skirtings, rails, etc not exceeding 300 mm girth (LI)	m	396	
	<u>Spot priming bare wood surfaces, one coat "Dulux" wood primer, one coat "Dulux" universal undercoat and two coats "Dulux" eggshell enamel paint or similar and approved paint</u>			
14	On doors (LI)	m2	101	
Carried Forward to Summary of Section No. 2				R
Section No. 2: Building Works				
Bill No. 16				
Paintwork				

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SECTION SUMMARY - Section No. 2: Building Works					
Bill No		Page No		Amount	
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Carried to Final Summary			R		
Section No. 2: Building Works					

Bills of Quantities

Section No. 3: External Works

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>BULK EXCAVATIONS AND GENERAL SITE WORKS, ETC (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	18 101	
2	Stripping 150mm layer of top soil and cart off site	m2	1 403	
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Open face excavation in earth over sloping site</u>			
3	Open face excavation (including widening and depth to be approved by the engineer) to form a platform	m3	1 321	
	<u>Extra over bulk excavation in earth for excavation in</u>			
4	Soft rock	m3	132	
	Carried Forward		R	
	Section No. 3: External Works Bill No. 1 Bulk Excavations and General Site Works (Provisional)			

	Brought Forward			R
5	Hard rock	m3	66	
	<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	1 321	
	<u>Risk of collapse of excavations</u>			
7	Sides of bulk excavations exceeding 1,5m deep	m2	131	
	<u>Keeping excavations free of water</u>			
8	Keeping excavations free of all water other than subterranean water		Item	
	<u>G6 Earth filling material supplied by the contractor compacted to 95% Mod AASHTO density</u>			
9	Backfilling over sites to form platform compacted in layers of 150mm thick compacted to a minimum of 98% Mod AASHTO density.	m3	1 321	
	<u>Compaction of surfaces</u>			
10	Compaction of ground surface under platforms, etc by wetting and compacting	m2	1 321	
	<u>Prescribed density tests on filling</u>			
11	Tests to determine the degree of compaction, etc. of ground or filling	No	26	
Carried Forward to Summary of Section No. 3				R
Section No. 3: External Works				
Bill No. 1				
Bulk Excavations and General Site Works (Provisional)				

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 2</u>			
<u>SOIL DRAINAGE AND WATER SUPPLY</u>			
<u>(PROVISIONAL)</u>			
NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density -----			
<u>SOIL DRAINAGE</u>			
<u>Excavation in compacted earth filling material not exceeding 2m deep</u>			
1	Trenches	m3	688
<u>Extra over bulk excavation in earth for excavation in</u>			
2	Soft rock	m3	69
3	Hard rock	m3	34
<u>Extra over all excavations for carting away</u>			
4	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	172
<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>			
5	Backfilling with selected fill material from excavations to pipe trenches compacted to 95% Mod AASHTO density	m3	516
<u>Imported backfilling material G5 supplied by the contractor including compaction to 90% Mod AASHTO.</u>			
6	Backfilling with imported fill G5 granular material to pipe trenches compacted to 95% Mod AASHTO density	m3	172
Carried Forward			R
Section No. 3: External Works Bill No. 2 Soil Drainage and Water Supply			

Brought Forward			R
<u>Normal duty (Class 34) PVC-U sewer and drain pipes</u>			
7	110mm Pipes laid in trenches (trenches elsewhere)	m	50
8	160mm Pipes laid in trenches (trenches elsewhere)	m	294
<u>Extra over normal duty (Class 34) PVC-U sewer and drain pipes for fittings</u>			
9	110mm Bend	No	3
10	110mm Junction	No	3
11	110mm Reducing junction	No	4
12	110mm Access pipe	No	6
13	110mm Access bend	No	3
14	110mm Access junction	No	4
15	110mm Access reducing junction	No	4
16	110mm Access double junction	No	4
17	110mm Rodding eye	No	4
18	110mm Overflow gulley head	No	4
19	160mm Bend	No	24
20	160mm Junction	No	18
21	160mm Reducing junction	No	4
22	160mm Access pipe	No	8
23	160mm Access bend	No	12
24	160mm Access junction	No	12
25	160mm Access reducing junction	No	4
26	160mm Access double junction	No	12
27	160mm Rodding eye	No	6
Carried Forward			R
Section No. 3: External Works Bill No. 2 Soil Drainage and Water Supply			

	Brought Forward			R
	<u>uPVC gulleys</u>			
28	110mm Dished gulley exceeding 500mm and not exceeding 750mm deep	No	4	
	<u>Excavate in earth for and including circular type precast concrete manhole formed of 1,4m diameter x 100mm thick 20MPa/19mm mass concrete bottom with manhole shaft formed of 1,05m diameter (internal) precast concrete rings with joints sealed with bitumious putty with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and including heavy duty road type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete benching in bottom floated smooth with falls to and including 110mm Pvc channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc.</u>			
29	1100mm Diameter inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally and including 150mm precast concrete reducer slab (As per drawing number: 899-S1-004: Revision: 1)	No	6	
30	1100mm Diameter inspection chamber exceeding 2000mm and not exceeding 3000mm deep internally and including 150mm precast concrete reducer slab (As per drawing number: 899-S1-004: Revision: 1)	No	6	
	<u>SUNDRIES</u>			
31	15MPa/19mm mass concrete in precast I.E. marker block set flush with the ground or paving	No	10	
32	Hole through side of precast concrete manhole for pipe exceeding 100mm and not exceeding 200mm diameter and make good	No	24	
	<u>WATER SUPPLIES</u>			
	<u>Excavation in compacted earth filling material not exceeding 2m deep</u>			
33	Trenches	m3	211	
	Carried Forward			R
	Section No. 3: External Works Bill No. 2 Soil Drainage and Water Supply			

Brought Forward			R
<u>Extra over bulk excavation in earth for excavation in</u>			
34	Soft rock	m3	21
35	Hard rock	m3	11
<u>Extra over all excavations for carting away</u>			
36	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	211
<u>Imported backfilling material G7 supplied by the contractor including compaction to 90% Mod AASHTO.</u>			
37	Backfilling to pipe trenches compacted to 95% Mod AASHTO density	m3	211
<u>uPVC class 12 pressure pipes and fittings</u>			
38	25mm Pipes laid in trenches (trenches elsewhere)	m	6
39	50mm Pipes laid in trenches (trenches elsewhere)	m	206
40	75mm Pipes laid in trenches (trenches elsewhere)	m	210
<u>Extra over polyethylene pipes for fittings</u>			
41	25mm Elbow	No	1
42	25mm Tee	No	1
43	50mm Reducing coupling	No	7
44	50mm Elbow	No	14
45	50mm Tee	No	4
46	50mm Reducing elbow	No	14
47	50mm Reducing tee	No	4
48	75mm Reducing coupling	No	9
49	75mm Elbow	No	17
Carried Forward			R
Section No. 3: External Works Bill No. 2 Soil Drainage and Water Supply			

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Section No. 3: External Works
Bill No. 2
Soil Drainage and Water Supply

Brought Forward		R	
<u>TESTING</u>			
60	Supply all the necessary apparatus, water etc. for and test the soil drainage and water supply systems to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order	Item	
<u>CONNECTION FEES</u>			
<u>Municipal connection</u>			
61	Provide the sum of R50 000.00 (Fifty Thousand Rand) for municipal connection	Item	50 000.00
62	Profit	%	
Carried Forward to Summary of Section No. 3		R	
Section No. 3: External Works			
Bill No. 2			
Soil Drainage and Water Supply			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>ROADS, PARKING AND PAVING</u>			
	<u>EXCAVATIONS, FILLINGS, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Over site to reduce levels for layerwork below paving and depositing excavated material in prescribed stock piles on site.	m3	881	
2	Rip and recompact in-situ material for a depth of 150mm to 95% Mod AASHTO density at optimum moisture content	m2	3 101	
	<u>Extra over all excavations for carting away</u>			
3	Surplus material from excavations to be carted away from site to a dumping site to be located by the contractor	m3	881	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water		Item	
	<u>Imported filling material supplied by the contractor</u>			
5	Selected layer of G5 material under roads, parking areas, walkways, etc compacted to 95% Mod AASHTO density	m3	881	
	<u>River sand filling supplied by the Contractor:</u>			
6	30mm Thick dry, clean, washed bedding sand layer evenly spread over filling (elsewhere), levelled, watered and rammed to receive block paving (elsewhere).	m2	3 101	
	<u>Soil insecticide</u>			
7	Under paving, roads, parking, etc	m2	3 101	
	Carried Forward		R	
	Section No. 3: External Works Bill No. 3 Roads, Parking and Paving			

Brought Forward			R
<u>One layer of 250 micron waterproof sheeting sealed at laps with approved tape</u>			
8	Under pavings	m2	3 101
<u>Prescribed density tests on filling</u>			
9	Tests to determine the degree of compaction, etc. of layerworks or filling	No	62
<u>80mm Thick concrete interlocking paving</u>			
10	Paving to roads, parking, etc to falls	m2	2 775
<u>60mm Thick concrete interlocking paving</u>			
11	Paving to assembly area, aprons, etc to falls	m2	326
<u>KERBS</u>			
<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
12	Figure 7 barrier kerb 180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, with 1:4 cement mortar bed of size 400 x 40mm high, including excavation, backfilling, etc	m	298
13	Flat kerb 150 x 200mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, with 1:4 cement mortar bed of size 400 x 40mm high, including excavation, backfilling, etc	m	200
<u>Paintwork</u>			
<u>Etching primer and two coats reflective road marking paint on concrete</u>			
14	100mm Wide lines	m	400
15	Paraleptic parking road marking	No	4
Carried Forward to Summary of Section No. 3			R
Section No. 3: External Works			
Bill No. 3			
Roads, Parking and Paving			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>BOUNDARY AND RETAINING WALLS AND FENCING</u>			
	<u>SITE CLEARANCE ETC</u>			
1	Make provision for clearing site under fence for at least one metre on both sides, fill all holes and gaps thereunder with approved earth filling and ram	m	315	
	<u>BOUNDARY AND RETAINING WALLS</u>			
	<u>EARTHWORKS</u>			
	<u>Excavation in compacted earth filling material not exceeding 2m deep</u>			
2	Trenches (LI)	m3	86	
	<u>Extra over bulk excavation in earth for excavation in</u>			
3	Soft rock (LI)	m3	9	
4	Hard rock	m3	4	
	<u>Extra over all excavations for carting away</u>			
5	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor (LI)	m3	86	
	<u>Risk of collapse of excavations</u>			
6	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	240	
	<u>Keeping excavations free of water</u>			
7	Allow for keeping all excavations entirely free from water and mud	Item		
	Carried Forward		R	
	Section No. 3: External Works			
	Bill No. 4			
	Boundary and Retaining Walls and Fencing			

Brought Forward			R
<u>G5 Earth filling material supplied by the contractor compacted to 98% Mod AASHTO density</u>			
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density (LI)	m3	41
<u>Compaction of surfaces</u>			
9	Compaction of ground surface under, floors, trenches etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% modified AASHTO density (LI)	m2	86
<u>Soil insecticide</u>			
10	Poisoning surface of ground in bottoms and sides of trenches, bases, etc	m2	326
<u>CONCRETE</u>			
<u>UNREINFORCED CONCRETE</u>			
<u>30MPa/19mm concrete</u>			
11	Strip footings	m3	26
<u>MASONRY</u>			
<u>Brickwork of NFX bricks (14 Mpa nominal compressive strength) in class I mortar</u>			
12	One brick walls (LI)	m2	150
13	One brick walls circular on plan	m2	69
<u>Brickwork reinforcement</u>			
14	150mm Wide reinforcement built in horizontally (LI)	m	776
<u>External face brick "Corobrik Redwood satin FBS" or similar and approved pointed with recessed horizontal and vertical joints.</u>			
15	Extra over ordinary brickwork for facing and pointing in stretcher bond (LI)	m2	396
Carried Forward			R
Section No. 3: External Works Bill No. 4 Boundary and Retaining Walls and Fencing			

Brought Forward			R
	<u>Brick-on-edge header course copings, sills, etc. of face bricks "Corobrik Redwood satin FBS" or similar and approved pointed with recessed joints on all exposed faces to match existing.</u>		
16	Coping on top of one brick wall in cement mortar and pointing on top and one side (LI)	m	30
	<u>Brick-on-edge header course copings, sills, etc. of face bricks "Corobrik Black Brick FBX" or similar and approved pointed with recessed joints on all exposed faces to match existing.</u>		
17	Coping on top of one brick wall in cement mortar and pointing on top and one side (LI)	m	90
	<u>FENCING</u>		
	<u>BASES</u>		
18	Base for post, size 300 x 300 x 600mm deep, including all excavations, 10MPa/19mm mass concrete base with chamfered top surface projecting 50mm above surrounding ground level including any necessary formwork, etc (LI)	No	86
	<u>METALWORK</u>		
	<u>"ClearVu" or similar and approved security welded and poly coated metal mesh fence</u>		
19	Fence comprising of 3305 x 2400mm high mesh panel, the panel made of 4mm diameter vertical and horizontal high tensile galvanised and epoxy (poly 6000) coated wires forming 76,2 x 12,7mm apertures, the panel reinforce with four 50mm deep "V" formation horizontal recessed bands and two 75mm 70 degrees flanges along the sides and two 30 degrees flanges along the top and toe, installation including all necessary elements needed to fit the fence. The fence to be installed by an approved specialist installer	m	285
20	3000 x 60 x 80 x 2mm Post including flat bar complete	No	86
21	Shark tooth spikes on top of fence	m	285
	Carried Forward		R
	Section No. 3: External Works Bill No. 4 Boundary and Retaining Walls and Fencing		

Brought Forward				R
<u>Gates</u>				
22	1200 x 2400mm high Single swing pedestrian gate, Frame out of square tube 60 x 60 or 80 x 60 mm, square posts out of welded tube with cap, and fixation strips for the fixation of the fencing panels to the gate posts by means of special clamps, complete with hinges and lock system	No	2	
23	6000 x 2400mm high Sliding gate, Frame out of square tube 60 x 60 or 80 x 60 mm, square posts out of welded tube with cap, and fixation strips for the fixation of the fencing panels to the gate posts by means of special clamps, complete with hinges and lock system	No	2	
<u>PAINTWORK</u>				
<u>ON METAL</u>				
<u>One coat self etching primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on galvanised steel</u>				
24	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) (LI)	m2	63	
Carried Forward to Summary of Section No. 3				R
Section No. 3: External Works				
Bill No. 4				
Boundary and Retaining Walls and Fencing				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</u>			
	<u>COVERED PARKING</u>			
	NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density -----			
	<u>EARTHWORKS</u>			
	<u>Excavation in compacted earth filling material not exceeding 2m deep</u>			
1	Holes (LI)	m3	11	
	<u>Extra over bulk excavation in earth for excavation in</u>			
2	Soft rock (LI)	m3	1	
3	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
4	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor (LI)	m3	11	
	<u>Risk of collapse of excavations</u>			
5	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	54	
	<u>Keeping excavations free of water</u>			
6	Allow for keeping all excavations entirely free from water and mud	Item		
	<u>G5 Earth filling material supplied by the contractor compacted to 98% Mod AASHTO density</u>			
7	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density (LI)	m3	6	
	Carried Forward		R	
	Section No. 3: External Works			
	Bill No. 5			
	Covered Parking			

Brought Forward			R
<u>Compaction of surfaces</u>			
8	Compaction of ground surface under, floors, trenches etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% modified AASHTO density (LI)	m2	13
<u>Prescribed density tests on filling</u>			
9	Tests to determine the degree of compaction, etc. of ground or filling	No	2
<u>Soil insecticide</u>			
10	To bottoms and sides of trenches etc	m2	67
<u>CONCRETE</u>			
<u>UNREINFORCED CONCRETE</u>			
<u>15MPa/19mm concrete</u>			
11	Surface blinding under footings and bases	m3	1
<u>REINFORCED CONCRETE</u>			
<u>25MPa/19mm concrete</u>			
12	Bases	m3	4
13	Columns in foundations	m3	1
<u>30MPa non-shrink grout</u>			
14	Bedding approximately 30mm thick under 350 x 250mm base plate	No	20
<u>SMOOTH FORMWORK:</u>			
<u>Smooth formwork to sides</u>			
15	Rectangular columns in foundations (Provisional)	m2	12
<u>REINFORCEMENT (PROVISIONAL)</u>			
Carried Forward			R
Section No. 3: External Works Bill No. 5 Covered Parking			

	Brought Forward			R
	<u>Mild yield deformed type II steel reinforcement to concrete as described including all bending, hooked ends, binding wire and temporary supports</u>			
16	Steel bar reinforcement in various sizes	t	0.09	
	<u>High yield deformed type II steel reinforcement to concrete as described including all bending, hooked ends, binding wire and temporary supports</u>			
17	Steel bar reinforcement in various sizes	t	0.34	
	<u>STRUCTURAL STEELWORK</u>			
18	100 x 50 x 3mm Thick rectangular hollow section columns including 350 x 250 x 6mm thick base plates	t	0.42	
19	160 x 82 x 15,8kg/m IPE160 I-section rafters	t	0.96	
20	100 x 50 x 20 x 2,5mm Thick lipped channel purlins	t	0.83	
21	50 x 50 x 4mm Thick angle cross bracing	t	0.35	
	<u>Bolts to columns, beams, etc</u>			
22	M12 Grade 4.8 bolts	t	0.50	
23	M16 Grade 8.8 chemical anchors holding down bolts embedded in top of concrete.	No	20	
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON METAL</u>			
	<u>Two coats of red lead (SABS specification 312) Type 2, Grade 1) or zinc phospe (SABS specification 1319) each coat with a thickness of at least 25 micron for red lead or 30 micron for zinc phospe and two coats of alkyd based structural steel paint (SABS specification 684, Type B), each coat with a thickness of at least 30 microns</u>			
24	On structural steel	m2	170	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	Carried Forward			R
	Section No. 3: External Works			
	Bill No. 5			
	Covered Parking			

Section No. 3: External Works
Bill No. 5
Covered Parking

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Bills of Quantities

Section No. 4:

Provisional Sums

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>PREAMBLES</u>			
<u>The following Provisional Sums and Prime Cost Items are net</u>			
<u>The Contractor shall allow for profit and attendance after each Provisional Sum. Where no allowance has been made by the Contractor, it shall be assumed the allowance shall have been included elsewhere in the rates for other works.</u>			
<u>Provide the following Provisional Sums for work to be executed and completed by the contractor as instructed by the Project Manager</u>			
<u>JOINERY FITTINGS - BULK SHELIVING</u>			
1	Provide the sum of R500 000.00 (Five Hundred Thousand Rand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	500 000.00
2	Allow for profit	%	
3	Allow for attendance	%	
<u>ROOF CONSTRUCTION - ABOVE WC 3</u>			
4	Provide the sum of R25 000.00 (Twenty Five Thousand Rand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	25 000.00
5	Allow for profit	%	
6	Allow for attendance	%	
Carried Forward			R
Section No. 4: Provisional Sums Bill No. 1 Provisional and Prime Cost Sums			

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Brought Forward		R	
<u>LANDSCAPING</u>			
7	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand Rand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	250 000.00
8	Allow for profit	%	
9	Allow for attendance	%	
<u>FLAG POLES</u>			
10	Provide the sum of R60 000.00 (Sixty Thousand Rand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	60 000.00
11	Allow for profit	%	
12	Allow for attendance	%	
<u>SIGNAGE (EXTERNAL)</u>			
13	Provide the sum of R50 000.00 (Fifty Thousand Rand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	50 000.00
14	Allow for profit	%	
15	Allow for attendance	%	
<u>STANDARD FOR ENTERPRISE DEVELOPMENT (CPG)</u>			
16	Provide the sum of R200 000.00 (Two Hundred Thousand Rand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	200 000.00
17	Allow for profit	%	
18	Allow for attendance	%	
Carried to Final Summary		R	
Section No. 4: Provisional Sums			
Bill No. 1			
Provisional and Prime Cost Sums			

Bills of Quantities

Section No. 5: Electrical Installations

Item	Description	Unit	Qty	Rate	Amount
Note	<i>The complete installation must comply with SANS 0142 specifications and the Quality specification in this document. Therefore Tenders are advised to study the specification and drawings before the Bill is to be priced.</i>				
1	Bulk Power Supply				
1.1	Bulk Power Connection (Provision for connection fee by local Supply Authority, Design and installation, Including MV Cabling, RMU/Transformer and all required accessories)	Prov Sum	1		
1.2	Contractors profit and attendance on item 1.1 above	10%	1		
Total Carried Forward to Bill 1 Summary: Municipality Bulk Supply Services					

Item	Description	Unit	Qty	Rate	Amount
1	LV Distribution Kiosk				
	Supply and Installation of LV Kiosks with labels, legends, danger warning signs, & all necessary Accessories, Compliant to SANS 10142-1:2017				
1.1	Main Kiosk - Ref: drawing (EE2023/ZCE/MAIN KIOSK_SLD/D1)	no.	1		
1.2	Plinth (Including all required Concrete tests)	no.	1		
1.3	Certificate of Compliance	no.	1		
TOTAL CARRIED FORWARD					

2	LV Cables and Cable Management				
TOTAL BROUGHT FORWARD					
	Compliant to SANS 1507-3-4				
2.1	CU 50 mm ² 4C PVC PVC SWA PVC BLK/RED SANS 1507 600/1000V including all necessary accessories for installation	m	100		
2.2	35 mm ² Bare copper earth - SANS 1411 including all necessary accessories for installation	m	100		
2.3	CU 50 mm ² 4C PVC PVC SWA PVC Termination kit	no.	4		
2.4	CU 35 mm ² BCEW Termination kit	no.	4		
2.5	CU 6 mm ² 4C PVC PVC SWA PVC BLK/RED SANS 1507 600/1000V including all necessary accessories for installation	m	800		
2.6	CU 4 mm ² Bare copper earth - SANS 1411 including all necessary accessories for installation	m	800		
TOTAL CARRIED FORWARD					

3 Trenching						
		TOTAL BROUGHT FORWARD				
	<i>Compliant to SANS 10198-8:2016 ; Trenching of dimension 0.6m x 0.5m for Cables</i>					
3.1	Excavate for cables in all materials for trenches, backfill, compact and dispose of surplus material. Including concrete Tiles	m ³	100			
3.2	Extra over item for excavating in hard material	m ³	100			
3.3	Danger Warning Tape (for cable route)	m	100			
3.4	Sleeves (DN160mm HDPE Kabelflex Sleeves) SABS (ISO 9001) for electrical cables running across paved surfaces	m	30			
3.5	Concrete Cable Route markers	no.	5			
3.6	1 000 x 1 000 x 800mm Electrical Manhole complete with trafficable cover	no.	3			
		TOTAL				
		Total Carried forward to Bill 2 Summary: LV Reticulation Installations				

Item	Description	Unit	Qty	Rate	Amount
1	Perimeter Lighting Installations				
	Supply and installation of SABS approved light fittings , complete with lamps, mounted as required, including accessories necessary to complete the mounting.				
1.1	55W, Post Top Luminaire, 6490lm, High-Pressure powder coated die-cast aluminium base, IP66, High Impact Acrylic Protector, ASA top cover. IK 08 (SANS 62262) , 4k. Mounted on 3m post.	no.	35		
1.2	3.5m Fibre Pole	no.	35		
1.3	Black, 1m, 29W Aluminium LED Bollard light, IP 66, 3600lm, 4K, Robust and Vandal resistant, Head Sealed from Pole base, Marine grade Aluminium head (EN 1706 AC-44300), non-discolouring, clear impact resistant, 8mm opal acrylic Protector, IK 07 (SANS 62262)	no.	15		
1.4	Daylight switch IP44, 25A	no.	4		
1.5	Lighting Kiosk	no.	1		
TOTAL CARRIED FORWARD					

2	Internal Lighting Installations				
TOTAL BROUGHT FORWARD					
	Supply and installation of SABS approved light fittings , complete with lamps, mounted as required, including accessories necessary to complete the Installation.				
2.1	3x28W LED Recessed Parabolic Light Fitting 1200mmx600mm. (F3)	no.	70		
2.2	1200mm 18W LED Batten Luminaire. (F2)	no.	25		

2.3	Wall/Ceiling mounted round 18W LEDBulkhead with die-cast aluminium body.Lumianires must be complete with Allen key screws and bear the SABS markand on IP 44 rating. (B1)	no.	30		
2.4	Wall mounted round 18W LEDBulkhead with die-cast aluminium body.Lumianires must be complete with Allen key screws and bear the SABS markand on IP 65 rating. (B3)	no.	6		
2.5	SABS approved Emergency LED illuminated (Green) Exit sign. 430x215x45mm, with atleast 2hours of battery power	no.	8		
2.6	Dimmable 10W Decorative LED downlight luminaire, with high end aluminium reflector, IP54 (D1)	no.	70		
2.7	SP Dimmer light switch, 1000W	no.	7		
2.8	25A Day/night switch. 5-50lux (adjustable). IP55	no.	2		
2.9	2 Lever 1 way light switch	no.	5		
2.10.	1 Lever 1 way light switch	no.	30		
2.11	2.5mm ² 2 core (600/1000Volt PVC insulated stranded copper conductors)	m	500		
2.12	2.5mm bare earth wire (BCEW)	m	500		
TOTAL					
Total carried forward to Bill 3 Summary: Inter & Peri Installations					

Item	Description	Unit	Qty	Rate	Amount
1	PVC Conduits & Conduit Boxes				
1.1	<u>Chase into Brick & Ceiling Space:</u> 20mm PVC Conduits with all necessary Accessories	m	500		
1.2	25mm PVC Conduits with all necessary Accessories	m	400		
1.3	Supply and installation of SABS Approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. For light Switches	no.	35		
1.4	Supply and installation of SABS Approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. For wall plugs (Single)	no.	25		
1.5	Supply and installation of SABS Approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. For wall plugs (Double)	no.	25		
1.6	20mm Galvanised Steel Conduits with all necessary Accessories	m	50		
1.7	25mm Galvanised Steel Conduits with all necessary Accessories	m	50		
1.8	20mm 4 way PVC conduit round Box Including cover	no.	20		
1.9	25mm 4 way PVC conduit round Box Including Cover	no.	20		
1.10	20mm 4 way Galvanised Steel conduit round Box Including cover	no.	10		
1.11	25mm 4 way Galvanised Steel conduit round Box Including cover	no.	10		
TOTAL					
Total carried forward to Bill 4 Summary: Conduits & Conduit Boxes					

Item	Description	Unit	Qty	Rate	Amount
1	Small Power Installations				
	<i>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</i>				
1.1	1x16A 3-pin sso + 2 16A 2 pin sso[IECC 60906-1] (Compliant with SANS 164-2)	no.	25		
1.2	2x16A 3-pin sso	no.	25		
1.3	Double compartment 2 tier Galvanized Steel powder coated, power skirting Including all accessories required to complete installation	m	50		
1.4	30A Double pole Isolator	no.	20		
1.5	60A Triple pole Isolator	no.	5		
1.6	4mm ² 2 core (600/1000Volt PVC insulated stranded copper conductors)	m	500		
1.7	2.5mm bare earth wire (BCEW)	m	500		
1.8	RJ45 power skirting Mounted Data Point	no.	25		
1.9	RJ11 power skirting Mounted Telephone Point	no.	10		
1.10	1x16A 3-pin sso	no.	25		
1.11	DB-A ref to Drawing EE2023/ZCE/DB_A_SLD/D1	no.	1		
1.12	DB-B ref to Drawing EE2023/ZCE/DB_B_SLD/D1	no.	1		
TOTAL CARRIED FORWARD					

2 Lightning Protection & Earthing		TOTAL BROUGHT FORWARD			
	<i>Supply, install and test a complete Class IV, Type 'A' lightning protection installation including Al and Cu conductors, test joints, steel conduits, earth electrodes etc. Ref to Drawing EE2023/ZCE/LTN PTN_LAYOUT/D1</i>				
2.1	Copper Tape/ 400mm X 4mm Aluminium Strip on the Perimeter of the roof	m	300		
2.2	1200mm x 16mmØ CU earth rods	no.	8		
2.3	50mm ² CU Down conductors	m	30		
2.4	70mm ² (equivalent to 10mm ² BCEW) anti-	m	10		
2.5	105x105mm PVC/Galvanised steel Box Flush Mounted Complete with cover for Test joint at 300mm AFFL Inside Building	no.	8		
2.6	Joints for electrical continuity	no.	20		
2.7	Soil Resistivity Test	sum	1		
2.8	Test and certifying (COC) by Specialist	sum	1		
2.9	Entire Building Earthing	sum	1		
TOTAL CARRIED FORWARD					

3	Emergency Back-up Generator & UPS				
TOTAL BROUGHT FORWARD					
3.1	Supply ,delivery , Installation (including all necessary wiring and accessories) and commissioning of a 80KVA , 50Hz 4-line and Y-connection loop mode standby diesel generator complete with all equipment and minimum continous runtime (at full load) of 24 hours. Housed in a weather proof canopy enclosure	no.	1		
3.2	Supply, install (Including all necessary accessories and wiring) and delivery of 3-Phase 4 Wire 50Hz 8kVA , 0,9 P.F or better UPS for all sensitive computer equipment on the network and for the main network servers The UPS will have a battery pack to enable a minimum run-time of 10 minutes at full load	no.	1		
TOTAL					
Total carried forward to Bill 5 Summary:Small Power & Lightning Protection					

Item	Description	Unit	Qty	Rate	Amount
1	CCTV				
1.1	12U Black server cabinet	no.	1		
1.2	16 port POE switch	no.	1		
1.3	8 Channel NVR with inbuilt 10TB SSD storage & NAS option.	no.	1		
1.4	Dome IP Camera, 4MP, With night vision & motion triggered recording. Hikvision or similar approved	no.	20		
1.5	Video Management Software (VMS) 1 year subscription	no.	1		
1.6	32' CCTV monitor	no.	2		
1.7	Solid core Cat 6 Cables	m	200		
1.8	Test and commision	no.	1		
TOTAL CARRIED FORWARD					

2	Intruder alarm system				
TOTAL BROUGHT FORWARD					
2.1	8 Zone Control Panel with backup battery	no.	1		
2.2	Wired Infrared motion sensor (180° Detection angle, 12m detection distance)	no.	20		
2.3	Panic button	no.	5		
2.6	Electro Magnetic lock complete with release button	no.	7		
2.7	8 zone classic LED backlit Keypad	no.	7		
2.8	P9000 Truncking	m	50		

2.9	Padlock Lockable Flush Mounted 300mm (W) x 140mm (D) Box to House the Alarm Control Unit	no	1		
2.10	Cat 5e Cable	m	100		
2.11	Ceiling mounted Siren	no.	2		
2.12	Door and window contacts Including all accessories required to complete installation, Wiring etc,	no.	50		
TOTAL					
Total carried forward to Bill 6 Summary:CCTV & Intruder Alarm					

Item	Description	Unit	Qty	Rate	Amount
1	Fire detection Layout				
1.1	Electronic Sounder,102db @ 1m, IP54	no.	3		
1.2	Red Flashing Beacon, 230V ac, LED Bulb	no.	7		
1.3	Red Break Glass Call Point, Resettable, 87x87x53mm. IP 67	no.	8		
1.4	Addressable Optical Smoke Detectors (Compliant with Sans 50054-7)	no.	18		
1.5	Heat Detector	no.	2		
1.6	4 zone, 2 loops, addressable Fire Alarm Control Panel with back up Power	no.	1		
1.7	Emergency lighting	no.	10		
1.8	Mineral Insulated copper sheathed cables with an Overall polymeric covering, complying with terminations complying with EN 60702-2, BS 7629, BS 7846. With Voltage rating of 300/500V or Greater.	m	300		
1.9	Certification and commissioning by Fire Engineer	no.	1		
1.10	Documentation and accredited training for operating personel	no.	1		
TOTAL					
Total carried forward to Bill 7 Summary:Fire detection Installations					

Item	Description	Unit	Qty	Rate	Amount
1	LV Distribution Kiosk				
	<i>Supply and Installation of LV Kiosks with labels, legends, danger warning signs, & all necessary Accessories, Compliant to SANS 10142-1:2017</i>				
1.1	GH-DB - Ref: drawing (EE2023/ZCE/GH_SLD/D1)	no.	1		
1.2	Certificate of Compliance	no.	1		
TOTAL CARRIED FORWARD					

2	Internal Lighting Installations				
TOTAL BROUGHT FORWARD					
	<i>Supply and installation of SABS approved light fittings , complete with lamps, mounted as required, including accessories necessary to complete the Installation.</i>				
2.1	3x28W LED Recessed Parabolic Light Fitting 1200mmx600mm. (F3)	no.	2		
2.2	1200mm 18W LED Batten Luminaire. (F2)	no.	2		
2.3	Wall/Ceiling mounted round 18W LEDBulkhead with die-cast aluminium body.Lumianires must be complete with Allen key screws and bear the SABS markand on IP 44 rating. (B1)	no.	2		
2.4	Wall mounted round 18W LEDBulkhead with die-cast aluminium body.Lumianires must be complete with Allen key screws and bear the SABS markand on IP 65 rating. (B3)	no.	4		
TOTAL CARRIED FORWARD					

3	PVC Conduits & Conduit Boxes				
	TOTAL BROUGHT FORWARD				
	<u>Chase into Brick & Ceiling Space:</u>				
3,1	20mm PVC Conduits with all necessary Accessories	m	50		
3,2	25mm PVC Conduits with all necessary Accessories	m	50		
	Supply and installation of SABS				
3,3	Approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. For light Switches	no.	4		
	Supply and installation of SABS				
3,4	Approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. For wall plugs (Single)	no.	3		
	Supply and installation of SABS				
3,5	Approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. For wall plugs (Double)	no.	3		
3,6	20mm Galvanised Steel Conduits with all necessary Accessories	m	10		
3,7	25mm Galvanised Steel Conduits with all necessary Accessories	m	10		
3,8	20mm 4 way PVC conduit round Box Including cover	no.	5		
3,9	25mm 4 way PVC conduit round Box Including Cover	no.	5		
3.10.	20mm 4 way Galvanised Steel conduit round Box Including cover	no.	5		
3,11	25mm 4 way Galvanised Steel conduit round Box Including cover	no.	5		
TOTAL CARRIED FORWARD					

4	Small Power Installations				
	TOTAL BROUGHT FORWARD				
	<i>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</i>				
4,1	1x16A 3-pin sso + 2 16A 2 pin sso[IECC 60906-1] (Compliant with SANS 164-2)	no.	3		
4,2	2x16A 3-pin sso	no.	3		
4,3	Double compartment 2 tier Galvanized Steel powder coated, power skirting Including all accessories required to complete installation	m	5		
4,4	30A Double pole Isolator	no.	1		
4,5	60A Triple pole Isolator	no.	1		
4,6	4mm ² 2 core (600/1000Volt PVC insulated stranded copper conductors)	m	50		
4,7	2.5mm bare earth wire (BCEW)	m	50		
4,8	RJ45 power skirting Mounted Data Point	no.	2		
4,9	RJ11 power skirting Mounted Telephone Point	no.	2		
4.10.	1x16A 3-pin sso	no.	3		
	TOTAL CARRIED FORWARD				

5 Lightning Protection & Earthing		TOTAL BROUGHT FORWARD			
	<i>Supply, install and test a complete Class IV, Type 'A' lightning protection installation including Al and Cu conductors, test joints, steel conduits, earth electrodes etc. Ref to Drawing EE2023/ZCE/LTN PTN_LAYOUT/D1</i>				
5,1	Copper Tape/ 400mm X 4mm Aluminium Strip on the Perimeter of the roof	m	50		
5,2	1200mm x 16mmØ CU earth rods	no.	4		
5,3	50mm ² CU Down conductors	m	5		
5,4	70mm ² (equivalent to 10mm ² BCEW) anti-theft composite stranded down conductor connected to Test Point	m	5		
5,5	105x105mm PVC/Galvanised steel Box Flush Mounted Complete with cover for Test joint at 300mm AFFL Inside Building	no.	4		
5,6	Joints for electrical continuity	no.	6		
5,7	Test and certifying (COC) by Specialist	sum	1		
5,8	Entire Building Earthing	sum	1		
		TOTAL CARRIED FORWARD			

6	CCTV				
TOTAL BROUGHT FORWARD					
6,1	4U Black server cabinet	no.	1		
6,2	4 Channel NVR with inbuilt 6TB SSD storage & NAS option.	no.	1		
6,3	Hikvision (or similar approved) 4MP AcuSense Bullet Network Camera, with night vision	no.	4		
6,4	32' CCTV monitor	no.	2		
6,5	Solid core Cat 6 Cables	m	200		
6,6	Test and commision	no.	1		
TOTAL					
Total Carried forward to Bill 8 Summary :Guard House Installations					

Item	Bill	Description	Amount
1	Bill 1	Municipality Bulk Supply Services	
2	Bill 2	LV reticulation Installations	
3	Bill 3	Internal & Perimeter Lighting Installations	
4	Bill 4	Conduits & Conduit Boxes	
5	Bill 5	Small Power and Lightning protection Installations	
6	Bill 6	CCTV & Intruder Alarm System	
7	Bill 7	Fire detection Installations	
8	Bill 8	Guard House Installations	
TOTAL CARRIED FORWARD TO NEXT PAGE			

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Bills of Quantities

Section No. 6: Solar Power Systems Installations

SCHEDULE OF QUANTITIES - PV SOLAR

No	Ref	Description	Unit	Quantity	Rate	Amount
		<i>Design, Supply, Deliver, Install, Test, Commission and Perform Remote Monitoring for a 25kW Solar Power System with Battery Back-up</i>				
1,0		Solar Panel Mounts				
1,1	<u>CS3W-415PMC4</u>	415W Canadian Solar PV Panels	No	64		
2,0		Power Cube				
2,1	<u>PYL-PCH2-BATT</u>	Pylontech 3.55kW Battery	No	16		
2,2	<u>PYL-PCH2-BATT</u>	Pylontech BMS unit for Powercube 1000V/100A (SC1000-100S)	No	2		
2,3	<u>BATTRACKPT3-13</u>	Power Tower Pylon US3000C	No	2		
2,4	<u>CAB-PK-PYLON</u>	Pylontech Cable Pack for US3000 Batteries	No	16		
3,0		Inverter				
3,1	<u>BME-30</u>	Blue Mountain Commercial 30kW HV Hybrid Inverter	No	2		
4,0		System Protection				
4,1	<u>CB Type 1</u>	Circuit Breaker Poles: 2 Pole Amps: 15 Voltage: 1000VDC	No	8		
4,2	<u>CB Type 2</u>	Circuit Breaker Poles: 2 Pole Amps: 25 Voltage: 800VDC	No	4		
4,3	<u>CB Type 3</u>	Circuit Breaker Poles: 2 Pole Amps: 50 Voltage: 1000VDC	No	2		
4,4	<u>CB Type 4</u>	Circuit Breaker Poles: 4 Pole Amps: 30 Voltage: 400VAC	No	2		
4,5	<u>CB Type 5</u>	Circuit Breaker Poles: 2 Pole Amps: 63 Voltage: 400VAC	No	4		
4,6	<u>CB Type 6</u>	Circuit Breaker Poles: 4 Pole Amps: 63 Voltage: 400VAC	No	1		
4,7	<u>SA Type 1</u>	Surge Arrestor Poles: 2 Pole (Live and Neutral) Voltage: 1000VDC	No	4		
4,8	<u>DC Combiner DB Box 1</u>	12 Way Surface Mounted DB Board	No	1		
4,9	<u>Battery DB Box 2,3</u>	12 Way Surface Mounted DB Board	No	2		
4,10	<u>Inverter DB Box 4,5</u>	12 Way Surface Mounted DB Board	No	2		
TOTAL AMOUNT CARRIED FORWARD						

SCHEDULE OF QUANTITIES - PV SOLAR

No	Ref	Description	Unit	Quantity	Rate	Amount
TOTAL AMOUNT BROUGHT FORWARD						
4,11	<u>AC Combiner Box 6</u>	12 Way Surface Mounted DB Board	No	1		
4,12	<u>DB Combiner Box 7</u>	6 Way Surface Mounted DB Board	No	1		
5,0		Cabling				
5,1	<u>PV Cable</u>	6.0mm ² Single Core Cable - Red	m	300		
5,2	<u>PV Cable</u>	6.0mm ² Single Core Cable - Black	m	300		
5,3	<u>Earth Cable</u>	4.0mm ² Single Core Cable - Green/Yellow	m	150		
5,4	<u>Battery Cable</u>	25mm ² Single Core Cable - Red	m	80		
5,5	<u>Battery Cable</u>	25mm ² Single Core Cable - Black	m	80		
5,6	<u>AC Output 1</u>	25mm ² Four Core Amoured Cable	m	20		
5,7	<u>AC Output 2</u>	35mm ² Four Core Amoured Cable	m	50		
5,8	Lugs Type 1	Lugs with 5mm Dia Hole - 6mm ² Cable	No	100		
5,9	Lugs Type 2	Lugs with 10mm Dia Hole - 25mm ² Cable	No	20		
5,10	Ferrules 1	6mm ² Ferrules	No	50		
5,11	Ferrules 2	25mm ² Ferrules	No	20		
5,12	Ferrules 3	25mm ² Ferrules	No	10		
5,13	<u>Trunking 1</u>	Trunking Galvanised P8000	m	30		
5,14	<u>Trunking 2</u>	100X40mm PVC Trunking	m	50		
5,15	<u>Conduiting 1</u>	25mm Dia Conduit	m	300		
5,16	<u>Flex Cond 1</u>	1m x 25mm Dia Flexible Sprague	No	30		
5,17	<u>PVC Saddles 1</u>	25mm Dia Spacer Bar PVC Saddles	No	100		
6,17	Accessories	Conduit Accessories	Sum	1		
7,17	FSBCe	Fasteners, Screws, Drill Bits, Glands etc....	Sum	1		
6		Pitched Roof Mountings				
6,1	<u>2003098</u>	K2 SolidRail Ultra Light 32 - 4.30m	m	100		
6,2	<u>2002857</u>	K2 RibClamp KL (Kliplok)	No	80		
6,3	<u>1000041</u>	K2 T-Head bolt 28/15 M10x30 A2	No	80		
6,4	<u>1000042</u>	K2 M10 Locking Nut A2	No	80		
6,5	<u>2002558</u>	K2 MiniClamp 30-50mm Mid Clamp	No	120		
6,6	<u>2002559</u>	K2 MiniClamp 30-50mm End Clamp	No	25		
6,7	FSBCe	Fasteners, Screws, Drill Bits, etc....	Sum	1		
TOTAL AMOUNT CARRIED FORWARD TO THE NEXT PAGE						

SCHEDULE OF QUANTITIES - PV SOLAR

No	Ref	Description	Unit	Quantity	Rate	Amount
TOTAL AMOUNT BROUGHT FORWARD						R -
7		Flat Roof Mountings				
7,1	<u>2001967</u>	K2 Dome S1000 2.0	No	12		
7,2	<u>2001968</u>	K2 Dome SD 2.0	No	12		
7,3	<u>2002732</u>	K2 2.0m Dome Windbreaker	No	20		
7,4	<u>2002653</u>	K2 Windbreaker Bolt and Nut Set	No	80		
7,5	<u>Anchor</u>	M10 x 75mm Anchor Shield	No	40		
7,6	<u>2001695</u>	K2 Dome S1000 Building Protection Mat	No	12		
7,7	<u>2001739</u>	K2 Dome SD Building Protection Mat	No	12		
7,8	FSBCe	Fasteners, Screws, Drill Bits, etc....	Sum	1		
	TOTAL AMOUNT CARRIED FORWARD TO THE SUMMARY PAGE					R -

Item	Bill	Description	Amount
1	1	schedule of quantities PV Solar	
TOTAL CARRIED FORWARD TO NEXT PAGE			

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Bills of Quantities
Section No. 7:
Mechanical Installations

Preliminary and General
Schedule of Quantities:- Mechanical Service
VRV Air Conditioning Installations

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRAY					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
1	Site Establishment	sum			
2	Methodology statement and Works Program within 14 days of on acceptance of the appointment letter.	sum			
3	Technical Submissions and all the Workshop Drawings.(Air Conditioning and Electrical layout plans)	sum			
4	Transportation of Materials	sum			
5	Health and Safety Compliance including Covid-19 method statement	sum			
6	Rigging, Scaffolding and Hoisting	sum			
7	50 Hydraulic Mobile Crane (all inclusive)	sum			
8	GUARANTEE				
	Allowance for 12 maintenance guarantee as described	sum			
9	Operational Training for Touch Central Controller	sum			
10	MANUALS				
	Allowance for the provision of operating and maintenance manuals (4 sets). Drawings in an electronic AutoCAD format in addition to hard copies in O & M manuals.	SET			
11	MAINTENANCE AND SERVICE				
11,1	12 months of the manufactures warranties, service should be done on a quarterly based per year	Item			
11,2	24 Months extended manufacture warranties and guarantees	Item			
12	Quality Management Plan	sum			
13	COMMISSIONING AND TESTING				
	Allowance for the inspection, commissioning and applicable testing of the entire installation as described.(All inclusive)	Sum			
14	Certificate of Compliance per building block	Sum			
TOTAL AMOUNT CARRIED FORWARD TO THE MECHANICAL FINAL SUMMARY BILL:					

Bill No: 1
Schedule of Quantities No 1:- Mechanical Installations
VRV Air Conditioning and Ventilation Installation

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	BOQ to be priced in conjunction with the mechanical specification for supply, deliver and install ceiling mounted wind free cassette units. In accordance with the Conditions of Contract, provide for all expenses, obligations and general items pertaining to such conditions and all items not specifically specified or mentioned to enable the work to be completed in a satisfactory manner. Rates to be priced to each specific item as items may be added or omitted to the client discretion. All capacities specified on the BOQ are stated capacities and must be priced as such. All the units below to be BACnet gateway compatible				
14	All the units below must be BACnet gateway compatible Model No: AM16FXVAGR and AM220FXVAGR or equal approved 4way cassette and Hideaway VRV Heat pump 4way Cassette unit (850x48x850) including condenser water pump, interface module (MIM-B14) complete with heat recovery, hard wired controller (FWCU01)				
15	Model No: AM224JNHFKH or equal approved 22,4kW cooling VRV Heat Recovery Hide away split type unit including condenser water pump, interface module (MIM-B14) complete with heat recovery, hard wired controller .	Each	2		
	Model No: AM140KNMDEH or equal approved 14,2kW cooling VRV Heat Recovery Hideaway split type unit including condenser water pump, interface module (MIM-B14)complete with heat recovery, hard wired controller	Each	1		
16	Model No: AM022NNNDEH or equal approved 2,2kW cooling VRV Heat pump 4way Cassette unit wind free (600 x 600) including condenser water pump, interface module (MIM-B14)complete with heat recovery, hard wired controller	Each	2		
17	Model No: AM036NNNDEH or equal approved 3,6kW cooling VRV Heat pump 4way Cassette unit wind free (600 x 600) including condenser water pump, interface module (MIM-B14)complete with heat recovery, hard wired controller	Each	1		
18	Model No: AM071NN4DEH or equal approved 7,1kW cooling VRV Heat pump 4way Cassette unit wind free including condenser water pump, interface module (MIM-B14)complete with heat recovery, hard wired controller	Each	2		
19	Supply, Install and deliver Model No: MDP-G0755SQ or equal approved Duct S internal .	Each	1		
20	Supply, Install and deliver Model No: MXJ-YA2500M or equal approved Y joint .	Each	1		
21	Supply, Install and deliver Model No: MXJ-YA2815M or equal approved Y joint .	Each	1		
22	Supply, Install and deliver Model No: MCU- S6NEK2N or equal approved 6 Port Kit .	Each	2		
23	Supply, Install and deliver Model No: MCU- S2NEK2N or equal approved 2 Port Kit .	Each	1		
24	Supply, Install and deliver Model No: DB62-12981A or equal approved MCU joint .	Each	2		
24	Supply, Install and deliver Model No: DB62-12980A or equal approved MCU joint .	Each	2		
26	Supply, Install and deliver Model No: PC4NUFMAN or equal approved wind free panel .	Each	5		
27	Supply, Install and deliver Model No: PC4SUFMAN or equal approved panel .	Each	2		
28	Supply, Install and deliver Model No: MWR-SH11N or equal approved touch Controller. .	Each	8		
29	Supply, Install and deliver Model No: MWR-WE13N or equal approved wired remote	Each	3		
30	Supply, Install and deliver (AM220FXVGR) or equal approved outdoor (3Ø) VRV condensing heat recovery unit with inverter scroll compressors, inverter fan motors, expansion kit, piping between condenser and controls with BMS BACnet compatible function Cooling capacity 40,93kW (System 1)	Each	1		
31	Supply, Install and deliver (AM160FXVAGR/EU) or equal approved outdoor (3Ø) VRV condensing heat recovery unit with inverter scroll compressors, inverter fan motors, expansion kit, piping between condenser and controls with BMS BACnet compatible function Cooling capacity 65,64kW (ODU -1)	Each	1		
TOTAL AMOUNT CARRIED FORWARD:					

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
BROUGHT FORWARD FROM PREVIOUS PAGE:					
TEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>REFRIGERANT RETICULATION PIPING (indoor unit)</u>				
	Supply and Install refrigerant piping including the TEE's, 90 degree bends, 45 degree bends, couplings, fasten bolts and nuts and all other accessories to keep the piping in position.				
32	1/4"	m	35		
33	3/8 "	m	100,4		
34	1/2 "	m	47,81		
35	5/8 "	m	78,17		
36	3/4 "	m	40,24		
37	7/8 "	m	9,17		
38	1 1/8 "	m	29,8		
39	3/4 " Elbow	m	8		
40	7/8 " Elbow	m	3		
41	1 1/8 " Elbow	m	9		
42	Additional R410A for field charging of the refrigerant for the operational of the systems	Kg	17,16		
43	UPVC heavy class drain piping for all the Cassette type units following the 25mm diameter of the piping. The pipes shall be insulated with 6mm thick nitrile	m	60		
44	Supply, Install and deliver Model No: MDP-G075SQ or equal approved drain pump.	Each	2		
	<u>NEW DX SPLIT TYPE AIR CONDITIONING INSTALLATION (Cooling only)</u>				
	Mid-Wall Split Units (Sever Room)				
	Supply, Deliver, install, commissioning and testing. Units with plasma and synthetic was able filters installed complete with refrigerating piping, controls, Armaflex insulation, electrical supply, The wired Controls to all cassette units shall be sleek and self diagnostic type as shown on drawings, including the drains pipes 20mm condensate drains. All condensing units must be mounted the mount brackets and channels including bolts and nuts. All as necessary for the units for the units to operate as specified.				
45	Cooling Capacity: 3.00kW	Each	2		
	CONTROL SYSTEMS				
46	Supply, Install and deliver Model No: MCM-300N or equal approved Touch Centralized Controller.	each	1		
	GALVANISED FINISH LIGHT DUTY CABLE TRAYS INCLUDING THE HANGER SUPPORT				
	Supply and Install wire mesh cable trays including the TEE's, Intervals, Horizontals, External,Raduis bends and straight lengths for the outdoor rising refrigerant piping from the condensing units.				
47	609 x 50mm straight light duty cable trays with splice clamps.	m	60		
	PVC DRAIN PIPING IN CEILLING VOID				
	Supply and Install the PVC condensate piping including the Stop ends, Radius bends, Square Bends, 45° bends, 15° bends, 90° bends and cement glue. As per the drawings				
48	ø812,8mm (32") main drain line for the condensate PVC pipe	m	30		
49	ø635mm (25") condensate drain PVC pipe from the indoor unit to connect at the main line	m	20		
TOTAL AMOUNT CARRIED FORWARD:					
KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
BROUGHT FORWARD FROM PREVIOUS PAGE:					R 0,00
50	<u>Fan System</u>				
	In line Fresh Tube Fan (335Diameter KD335x11) 533l/s @200Pa,431W,1ph c/w 2 x 1,5 D Sound attenuators with pods and electrical box with a time controller.(FAF 1)	each	1		
51	In line fresh air Tube Fan (335Diameter KD335x11) 666l/s @200Pa,451W,1ph c/w 2 x 1,5 D Sound attenuators with pods and electrical box with a time controller.(FAF 2)	each	1		

Bill No: 1
Schedule of Quantities No 1:- Mechanical Installations
VRV Air Conditioning and Ventilation Installation

52	Inline Extractor Tube Fan (335Diameter KD335xl1) 424l/s @200Pa,431W,1ph c/w 2 x 1,5 D Sound attenuators with pods and electrical box with a time controller.(EAF 1)	each	1		
53	inline Extractor Tube Fan (335Diameter KD335xl1) 274l/s @150Pa,431W,1ph c/w 2 x 1,5 D Sound attenuators with pods and electrical box with a time controller.(EAF 2)	each	1		
	Wall Mounted Extractor Fans				
	Supply, install Wall Mounted Extraction fans with 10 to 12 dual louvers, aerodynamic designed balance blade, adjustable upwards and downward tilting mechanism, Gravity Shutter to prevent entry of foreign objects like bird, pets, ducting, filters etc. all as per specification and drawing				
54	Wall Mount extractor Fan Number WEF 1 (33l/s @100Pa)	each	4		
55	Wall Mount extractor Fan Number WEF 2 (28l/s@100Pa)	each	1		
56	Wall Mount extractor Fan Number WEF 3 (74l/s @100Pa)	each	2		
	Grilles				
57	Supply and Install double sided Indoor louvre natural anodised aluminium C/W vermin proof screen with low deferential pressure and low regenerated noise. Door Grill 200 x 150mm	Each	10		
58	Door Grill 300 x 250mm	Each	1		
59	Door Grill 250 x 200mm	Each	9		
60	Door Grill 300 x 300mm	Each	2		
	Diffusors				
	Supply, install, test, balancing, commission and including duct clamps, mounting brackets and seal with the duct tape around				
61	Supply Disc Valves 150 diameter Power coated aluminium- Hospital White (DV1)	Each	2		
62	Extract Disc Valves 150 diameter Power coated aluminium- Hospital White (DV1)	Each	4		
63	Supply Disc Valves 200 diameter Power coated aluminium- Hospital White(DV2)	Each	2		
64	Supply Disc Valves 100 diameter Power coated aluminium- Hospital White (DV3)	Each	1		
65	Extract Disc Valves 100 diameter Power coated aluminium- Hospital White (DV3)	Each	11		
66	Supply Disc Valves 250 diameter Power coated aluminium- Hospital White (DV4)	Each	4		
67	600 x600 Supply Air Diffuser with neck 250 diameter- Hospital White (SAD1)	Each	6		
68	600 x600 Supply Air Diffuser with neck 350 diameter- Hospital White (SAD2)	Each	4		
69	600 x600 Supply Air Diffuser with neck 300 diameter- Hospital White (SAD3)	Each	4		
	Weather Louvres				
	Supply and Install single sided weather louvre natural anodised aluminium C/W vermin proof screen. Duct plenum box c/w with washable filters cartridge of and lockable door c/w including all fitting, rods, hangers and brackets.				
70	300 x200mm c/w Filter box (WL1)	Each	1		
TOTAL AMOUNT CARRIED FORWARD:					
KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
BROUGHT FORWARD FROM PREVIOUS PAGE:					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	Flexible insulated ducting				
	Insulated flexible ductwork , externally insulated with 25mm foil faced fibreglass, including jubilee duct clamps and vapour barrier tape				
71	Ø 350 mm	m	4,5		
72	Ø 300 mm	m	6		
73	Ø 250 mm	m	6		
	Insulated flexible ductwork , externally Uni-insulated with 25mm foil faced fibreglass, including jubilee duct clamps and vapour barrier tape				
74	Ø 200 mm	m	4		

Bill No: 1
Schedule of Quantities No 1:- Mechanical Installations
VRV Air Conditioning and Ventilation Installation

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KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	Erection and workmen				
	The erection and completion of this installation is to be carried out to the complete satisfaction of the Chief Director or his Representative I Agent by a firm specialising in this type of work.				
	Pricing				
	The Tenderer must price each item in this section individually and no changes made by the tenderer shall be recognised.				
	uPVC pipes and fittings				
	uPVC pressure pipes and fittings				
	Pipes for water supply shall be of the class stated.				
	Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.				
	Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints.				
	Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.				
	Copper Pipes				
	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.				
	Reducing fittings				
	Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.				
	Nature of the ground				
	No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfitting.				
	Soft rock and "hard rock" shall be as defined in "Earthworks".				
	Laying, backfilling, bedding, etc. of pipes				
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.				
	Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:				
	SABS 1200 L : Medium-pressure pipelines				
	SABS 1200 LD Sewers				
	SABS 1200 LE : Stormwater drainage				
	Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200				
	Earthworks (Pipe trenches)				
	Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200				
	LB : Bedding (Pipes).				
	Unless otherwise described bedding of rigid pipes shall be class B bedding.				
	Flush pans				
	Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.				
	Stainless steel basins, sinks, wash troughs, urinals, etc.				
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
TOTAL AMOUNT CARRIED F					R 0,00

WET Services Installations

[illegible]

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	BLANK DESCRIPTION				
	SANITARY PLUMBING				
108	PVC in accordance with SABS 967/1975				
109	50 mm Piping.	m	25		
110	110 mm Piping.	m	370		
111	Extra on PVC piping for:				
112	50 mm Reducer.	No	5		
113	110 x 50 mm Reducer.	No	12		
114	50 mm Bend.	No	20		
115	50 mm Inspection bend.	No	13		
116	110 mm Inspection bend.	No	14		
117	110mm Inspection bend with vent horn.	No	14		
118	50mm Junction.	No	4		
119	110 x 50mm Inspection reducing junction.	No	13		
200	50mm Inspection junction.	No	5		
201	110 mm Pan connector.	No	14		
202	50 mm G.I two way vent valve.	No	14		
203	Traps, etc. including joints to PVC pipe and to fitting	No	19		
204	32 mm Chromium plated waste outlet with plug and chain.	No	13		
205	50 mm Ditto.	No	10		
206	50 mm Ditto to urinal.	No	3		
207	50mm White rubber flexitrap deep seal S or P trap.	No	3		
208	50mm Combination flexi-trap.	No	2		
209	32 x 40 mm Chromium plated brass deep seal bottle trap with cleaning eye and screwed coupling.	No	3		
210	50 x 50 mm Ditto.	No	19		
211	110mm PVC trap to slop hopper including couplings to unit, etc.	No	14		
212	Sanitary fittings including fixing in position making all connections and jointing to pipes	sum	sum		
	HOT AND COLD WATER SUPPLIES				
213	Maksal class 0 or other approved half hard copper tubing				
214	15 mm Pipe.	No	50		
215	22 mm Pipe.	No	30		
216	15 mm Pipe wrapped in and including two layers of heavy brown building paper and fixed in chase .	No	20		
217	22 mm Ditto.	No	4		
	Copper or gun metal pressure capillary solder fittings as cobra copcal 1502016 including joints to copper unless otherwise described				
218	15 mm Fittings.	No	20		
219	15mm Adaptor coupling to 20mm HDPE pipe.	No	4		
220	22 mm Fittings.	No	50		
221	22mm Adaptor coupling to 20mm HDPE pipe.	No	6		
	Fittings including joints to copper or steel				
222	15mm Extension piece with sliding wall flange.	No	50		
223	15 mm Bent service pipe average 400 mm girth including two straight couplings, one copper to steel and the other copper to copper.	No	4		
224	15 mm Approved brass half fullway ballstop ball cock.	No	40		
225	22 mm Brass fullway gate valve with wheel head.	No	6		
226	20 mm Brass bib tap with hose connection.	No	3		
227	22 mm Cobra chromium plated bib tap with chromium plated extension piece for slophopper and with Carina handles.	No	2		
228	Basin 15mm Cobra chromium plated operated pillar taps.	No	20		
229	15 mm Cobra 166/041 chromium plated wall-type sink mixer with swivel outlet and Carina handles.	No	1		
TOTAL AMOUNT CARRIED FORWARD:					

WET Services Installations

[illegible]

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	HEATING WATER INSTALLATION				
	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertight" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.				
	ELECTRIC GEYSER AND PIPING INSTALLATION				
	Kwikot 150L Electric Geyser				
	150L 400kPa Electric Geyser				
78	Accessories: Wall Mountings, Valves, Automatic Pressure Release Valve and Ball Valves	m	3		
	22 Diameter Class II Copper Pipes (Hot & Cold water piping)				
	Supply, Deliver, install, commissioning and pressure testing piping.				
	Complete before insulated with Nitrile Rubber Tubular insulation				
	connecting including the couplings, 90 bends, Tee's, reducers etc.				
	as per the specifications				
	Material	m	65		
	15 Diameter Class II Copper Pipes (Hot & Cold water piping)				
	Complete before insulated with Nitrile Rubber Tubular insulation				
	connecting including the couplings, 90 bends, Tee's, reducers etc.				
	as per the specifications				
79	Material	m	120		
80	22 diameter piping Brackets	Item	100		
81	15 diameter piping Brackets	Item	100		
82	22mm Brass Water Tap	each	3		
83	Shut off Valves 22mm dia.	Each	4		
84	Stop Valves 22mm dia.	Each	2		
85	Check Valves 22mm dia.	Each	2		
86	Non return valves 22mm dia.	each	2		
87	Flow Switch 22mm dia	Each	4		
88	Y Strainers 22mm dia	each	2		
89	Issuing of COC for the entire heating hot water system by Registered Plumber	Sum	1		
90	Plumberazy ' black Polyethylene geyser trays (SABS 1848:2000):	each	3		
TOTAL AMOUNT CARRIED FORWARD:					

Solar Water Heating Installations

BROUGHT FORWARD FROM PREVIOUS PAGE:					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	LAGGING				
	Fibreglass Snap-on' plain sections:				
90	Insulation 15mm thick to 15mm pipes and couplings.	m	12		
	PV SOLAR MODULES (GEYSORS)				
92	Supply, install and connector 265Watt Solar Panel 1650 x 990 x 30 mm (30T) / 1650 x 990 x 40 mm (40T), wieight of 17kg, with a High-Transmittance Low Iron Tempered Glass, Anodized Aluminum Frame, PV Wire (PV1-F), 12AWG (4mm2) Cable Length at 1000mm and MC4 Connectable	No	24		
93	Solar Cables (Red)	M	150		
94	Solar Cables (Black)	M	150		
95	4 x Core communication Cable	M	100		
96	6 X Core Communication Cables	M	100		
97	4 and 6 core connectors	M	100		
98	4.2m Rail	each	12		
99	End Clamps	each	16		
100	Mid clamps	each	32		
101	MC 4 Connectables	each	20		
102	Geyser Controler	each	3		
103	Thermo and Couple	each	6		
104	Display Screen	each	3		
105	Supply and install similar or equally to Geyserobot	each	3		
106	30 Amp double pole isolayor enclose IP66	each	3		
	Workshop Drawings, Disinfection, Testing, Commissioning and COCs				
107	Issuing of COC for each PV Solar System	Unit	3		
TOTAL AMOUNT CARRIED TO THE MECHANICAL FINAL SUMMARY PAGE :					

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	BILL No. 1: CONVENTIONAL FIRE PROTECTION SYSTEM				
	<u>FIRE FIGHTING EQUIPMENT</u>				
	<u>FIRE HYDRANTS</u>				
	Suction Hydrant				
	Supply and install Right Angle Tamperproof Hydrant with 100mm Storz Outlet and 100mm Female BSP Inlet. (Installation downstream of water meter connection).	No.	1		
	Backflow Preventer				
	Supply and install Cast Iron Wafer Check Valve with Ductile Iron or 316 Stainless Steel	No.	1		
	Double Doors and EPDM Seal. This valve assembly to be encased in a medium grade 600mm x 480mm manhole with frame for access for maintenance.				
	Supply and install 100mm FxF (Female x Female) Full Bore BSP Brass Ball Valve				
	Hose Box				
	Supply and install a raised steel hose box with 3 x 65 mm 30 metre long layflat hoses, complete with couplings, branch pipes and a 16 mm nozzle all of which comply with the requirements of SANS 1128-2.	No.	1		
	Twin Fire Brigade Booster Connection				
	Supply and install Two-Port Booster with 65mm Brass Booster Connectors, a Pressure Gauge	No.	1		
	with 100mm T/16 Inlet encased in a steel cover with front open. Pressure gauge Dial to read up to 2500kPa. (Installed downstream of Item Above).				
	Raised Fire Hydrants				
	Supply and install 80mm x 65mm Cast Iron Right Angle Pattern Tamperproof Hydrant with a Single	No.	2		
	Lug Instantaneous Outlet and 80mm Male BSP Inlet.				
	Note: The hydrants shall be opened by use of a square key on this project. Under no circumstances shall wheel handle type hydrants be acceptable.				
	<u>FIRE HOSE REELS</u>				
	Supply and install SANS 543 approved 30 Metre Hose Reel complete with 25mm C Shut-off valve, Plastic Nozzle, Hose Guide and angle iron fixing bracket.	No.	3		
	Supply and install SANS 543 approved 30 Metre Hose Reel complete with 25mm Chromium plated	No.	1		
	Shut-off valve, Plastic Nozzle, Glycerine-filled pressure Gauge, Hose Guide and angle iron fixing bracket.				
	<u>PORTABLE FIRE EXTINGUISHERS</u>				
	Supply and install 9kg Dry Chemical Powder (DCP) Type portable fire extinguisher	No.	2		
	complete with steel mounting bracket and 100mm W x 600mm L polished & varnished				
	Meranti Hardwood Backing board plugged in wall behind.				
TOTAL AMOUNT CARRIED FORWARD:					

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
BROUGHT FORWARD FROM PREVIOUS PAGE:					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	Supply and install 4.5kg Dry Chemical Powder (DCP) Type portable fire extinguisher complete with steel mounting bracket and 100mm W x 600mm L polished & varnished Meranti Hardwood Backing board plugged in wall behind.	No.	8		
	Supply and install 5.0kg Carbon Dioxide (CO ₂) Type portable fire extinguisher complete with steel mounting bracket and 100mm W x 600mm L polished & varnished Meranti Hardwood Backing board plugged in wall behind.	No.	5		
	<u>STATUTORY SIGNAGE</u>				
	Photoluminescent signage and warning notices in accordance with SANS 1186 Parts 1 & 5 incorporating the pictographs in the standard 190mm x 190mm module size encased in Aluminium metal frames with chamfered edges mechanically and securely fixed to walls or roof slabs or ceiling hung in stainless steel chain or wire. Strictly NO double sided tape or silicone sealing of statutory signage is allowed. Signs shall be a single sign along its width and not multiple individual signs.	No.	32		
	ABS signage in accordance with SANS 1186 for external twin fire booster connection incorporating the pictographs in the standard 290mm x 290mm module size fixed on a purpose made triangular steel support such that the sign is visible from the two sides along the road. The mounting height to be ±2000mm above finished ground level.	No.	8		
	<u>PIPING RETICULATION</u>				
	<u>All rates supplied in this bill of quantities shall be deemed to include scaffolding to any height and fixing piping up to roof height.</u>				
	<u>All piping rates supplied shall include couplings, bends, tees, sockets, pipe supports, anchors, along the running length and backfilling and compaction where pipes are laid in the ground</u>				
	All pipes suspended from concrete slabs, roof, ceiling, etc, shall be deemed to include in the rates all necessary hanger brackets, threaded rods (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab	No.	32		
	All pipes are generally to be concealed inside recesses s,ceiling voids except where it is necessary to feed an appliance and fixed with standard type pipe supports and brackets spaced at intervals strictly as per manufacturer's recommendations.	No.	8		
	<u>ABOVE GROUND PIPING</u>				
	<u>Galvanised Steel Pipework and Fittings</u>				
	All above-ground firewater pipes shall be Medium Grade Galvanised Steel to SANS 62 Part 1 for nominal sizes from 25mm up to and including 150mm. All pipes and fittings shall be installed strictly in accordance with the manufacturer's specifications, and recommendations. Pipes shall be colour coded in accordance with the requirements of SANS 10140 Identification Colour Marking - Part 3: 2017 Contents of Pipelines or similar approved in close consultation with the Fire Engineer.				
TOTAL AMOUNT CARRIED FORWARD:					

KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY					
BROUGHT FORWARD FROM PREVIOUS PAGE:					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>Medium Grade Steel Pipes</u>				
	100mm diameter pipes	m	6		
	80mm diameter pipes	m	18		
	50mm diameter pipes	m	1		
	40mm diameter pipes	m	1		
	32mm diameter pipes	m	6		
	25mm diameter pipes	m	24		
	<u>BELOW GROUND EXTERNAL PIPING (BY OTHERS)</u>				
	<u>High Pressure HDPE Class 16 pipes to SANS 4427-1 with a Minimum Required Strength (MRS) of 8MPa used in conjunction with electrofusion or butt welded fittings suitable for below-ground applications for the conveyance of potable water in reticulation systems in which continuous temperatures in excess of 25°C are not encountered.</u>				
	Ø110mm High pressure pipe laid in ground not exceeding 1000mm deep.	m	240		
	Ø32mm High pressure pipe laid in ground not exceeding 1000mm deep.	m	36		
	Ø25mm High pressure pipe laid in ground not exceeding 1000mm deep.	m	6		
	<u>High Pressure HDPE Class 6 pipes to SANS 4427-1 with a Minimum Required Strength (MRS) of 6.3MPa</u>				
	<u>used in conjunction with compression fittings suitable for below-ground applications for the below-ground applications for the conveyance of potable water in reticulation systems in which continuous temperatures in excess of 25°C are not encountered.</u>				
	Ø110mm High Pressure HDPE Class 6 pipes laid in ground not exceeding 1000mm deep.	m	145		
	Ø110mm High Pressure HDPE Class 4 pipes laid in ground not exceeding 1000mm deep.	m	150		
	<u>FIRE HYDRANTS WATER STORAGE AND PRESSURE BOOSTER PUMP SYSTEM</u>				
	<u>COMBINED DOMESTIC AND FIRE WATER BISECTIONAL STORAGE TANK</u>				
	Supply and install sectional steel water tank constructed from square shaped standard panel size 1.22m L x 1.22m W. Tank configuration to be such that the tank is subdivided into two equal sections with a divider ±150mm below the roof of the tank. Tank Full Structure = 6.10m Long x 4.88m Wide x 3.66m High i.e. 4 panels L x 4 panels W x 3 panels H	Sum	1		
TOTAL AMOUNT CARRIED FORWARD:					

BROUGHT FORWARD FROM PREVIOUS PAGE:					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	Note: Tank shop drawing to be issued to the Fire Engineer for approval prior to placement of order.				
	All tank valves and accessories to be included in the price not necessarily limited to the following:				
	- 2-off 600mm x 600mm access manholes on the roof of the tank				
	- 2-off Ø150 air vents				
	- 1-off External catladder				
	- 2-off internal catladders				
	- 2 x 80mm mechanical ball float valves				
	- 2 x 100mm Overflow warning pipe outlets				
	- 1-off x 125mm pump test return inlet at high level or roof of the tank				
	- 2 x Ø600mm Vortex Inhibitors				
	- 2-off x Ø80mm low level tank water balancing outlets with an interconnecting pipe with a centred valve (normally open)				
	- 2 x Ø100mm water suction points on underside of tank to be piped for municipal hydrant suction				
	- 2 x Ø80mm drain valves (normally closed).				
	- 2 x 150mm Fire Water delivery / Fire Pumps suction c/w OS & Y isolating valves (normally open).				
	- 2 x 150mm Fire Water delivery / Fire Pumps suction c/w OS & Y isolating valves (normally open).				
	FIRE HYDRANTS BOOSTER PUMP SET				
	Supply and install pressure switch operated packaged Electric Duty and Standby + jockey pump set	Sum	2		
	complete with all standard isolating valves, strainers, non-return valves, pressure gauges etc.				
	-Fire pump duty = 2400 Litres per minute @ 500kPa				
	-Jockey Pump Duty = 60 Litres per minute @ 650kPa				
	-Pump performance curves to be submitted to Fire Engineer for approval.				
	PUMP ROOM PIPING AND ACCESSORIES				
	Supply and install all pump room interconnecting pipework complete with fittings to include all valves,	Sum	1		
	flexible connections accessories not limited to the following:				
	- 2-off non-return valves one on each delivery pump				
	- 2-off isolating valves one on each delivery pump				
	- 2-off pump suction compound pressure gauge one on each pump				
	- 2-off pump delivery pressure gauge one on each pump				
	- 1-off isolating valve upstream of the the jockey pump				
	- 1-off non-return valve on the jockey pump delivery				
	- 1-off isolating valve downstream of the jockey pump non-return valve above				
	- 1-off pump Auto-start Arrangement				
	- 1-off Pump Room Electrical Distribution Board				
	- 1-off Duty Electrical Motor Driven Pump Controller Panel				
	- 1-off Electrical Jockey Pump Controller Panel				
	- 2-off butterfly isolating valves one on the upstream and the other downstream of the orifice plate				
	- 2-off pressure gauges on either side of the of the orifice plate				
	- 1 x 125mm brass or stainless steel orifice plate (6mm thick) on pump Proving Test Arrangement back to the tank				
	- Dry run pump protection				
TOTAL AMOUNT CARRIED FORWARD:					

MECHANICAL FINAL SUMMARY

Mechanical Services: Schedule of Quantities
KIMBERLEY: CONSTRUCTION OF GALESHEWE NEW LIBRARY
New VRV Air Conditioning and Ventilation Installation

ITEM	DESCRIPTION	TOTAL AMOUNT
1	Preliminary and General	R -
2	Total Air Conditioning amount carried forward from bill of Quantities	R -
3	Total WET Services amount carried forward from bill of Quantities	R -
4	Total Solar Water Heating amount carried forward from bill of Quantities	R -
5	Total Fire Protection Installation amount carried forward from bill of Quantities	R -
6	Sub-Total: B	R -
7	TOTAL CARRIED FORWARD TO MECHANICAL SUMMARY PAGE (Excl VAT)	R -

NAME OF TENDERER:

NAME OF COMPANY:

ADDRESS:
.....
.....

TELEPHONE NO.:

SIGNATURE: DATE:

NB: Tenderer’s are requested to return this document and the summary with the tender form.

[illegible]

Bills of Quantities

Final Summary

**NEW GALESHEWE LIBRARY
DEPARTMENT OF ROADS AND PUBLIC WORKS
NORTHERN CAPE PROVINCE**

Section No		Page No	Amount	
FINAL SUMMARY				
1	Section No. 1: Preliminaries and General	31		
2	Section No. 2: Building Works	90		
3	Section No. 3: External Works	109		
4	Section No. 4: Provisional Sums	111		
5	Section No. 5: Electrical Installations	112		
6	Section No. 6: Solar Power System Installations	113		
7	Section No. 7: Mechanical Installations	114		
SUB-TOTAL (Excluding Contingencies, CLO, etc.)			R	
Allow the sum of R1 500 000.00 (One Million Five Hundred Thousand Rand) for Contingencies			R	1 500 000.00
Allow the sum as indicated for Community Liaison Officer for the duration of the contract.			R	189 000.00
Allow for profit and attendance under CLO budgetary amount			%	
Allow the sum as indicated for Project Steering Committe for the duration of the contract.			R	144 000.00
Allow for profit and attendance under Project Steering Committee budgetary amount			%	
SUB-TOTAL (Excluding Escalation)			R	
Allow the sum of R2 000 000.00 (Two Million Rand) for CPAP (Contract Price Adjustment Provision)			R	2 000 000.00
SUB-TOTAL (Excluding CSDG)			R	
Carried Forward			R	

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
	Brought Forward		R
	Add: Contract Skills Development Goal (CSDG) Standard (0.5%)		
	(Allow the amount of 0.5% x Sub-Total Above = (.....Rands) for Contract Skills Development Goal (CSDG) to be used by the Client in terms of Clause (Table 2 of the CIDB)	Item	
	SUB-TOTAL (Excluding Value Added Tax)		R
	ADD: Value Added Tax (VAT) calculated at the rate of 15%		R
	Carried to Form of Tender		R