

**TENDER NO.: UMALUSI (20-21) T0003****RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING  
FOR OFFICE SPACE  
LOCATED AT  
41 GENERAL VAN RYNEVELD STREET, BRUMMERIA,  
PRETORIA, 0020**

INVITATION DATE : 12 MARCH 2021  
COMPULSORY BRIEFING DATE : 23 MARCH 2021  
TIME : 10H00  
VENUE : UMALUSI - 37 GENERAL VAN RYNEVELD  
STREET, BRUMMERIA, PRETORIA, 0020

**FAILURE TO ATTEND THE COMPULSORY BRIEFING SESSION WILL INVALIDATE THE  
TENDER OFFER**

TENDER CLOSING DATE & TIME : 09 APRIL 2021  
TENDER OPENING DATE & TIME : NOT APPLICABLE DUE TO COVID 19  
TENDER VALIDITY : 90 DAYS

TENDERER'S NAME : \_\_\_\_\_  
MAILING ADDRESS : \_\_\_\_\_  
TELEPHONE NUMBER : \_\_\_\_\_

I certify that this Tender is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a Tender for the same materials, supplies or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this Tender and certify that I am authorised to sign this Tender.

\_\_\_\_\_  
AUTHORISED SIGNATURE\_\_\_\_\_  
PRINT NAME

Sealed documents marked "REQUEST FOR TENDER NO.: UMALUSI (20-21) T0003 - FOR the "RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING FOR OFFICE SPACE LOCATED AT 41 GENERAL VAN RYNEVELD STREET, BRUMMERIA, PRETORIA, 0020" must be dropped off in the tender box situated in the Umalusi Office reception at 37 General Van Ryneveld Street, Brummeria, Pretoria, 0020 before the stipulated time.

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## 1 SUMMARY FOR TENDER OPENING PURPOSES

To facilitate the reading out of tender parameters at the opening of tenders, the Tenderer shall complete this form and submit it with his/ her tender. This form does not replace the Form of Offer, C1.1, which must be completed

**Name of tenderer submitting the tender:** \_\_\_\_\_

Tender amount (as stated in the Form of Offer, including VAT):

R \_\_\_\_\_

Time for Completion offered, (Contract Period in months):

\_\_\_\_\_ Months

(Tendered alternative contract period to that stated in the Contract Data Section inclusive of public holidays, annual builders' breaks, etc.)

### Details of contact person:

Name (Print): \_\_\_\_\_

Telephone No: \_\_\_\_\_

CIDB CRS No: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Is the Form of Offer signed by Tenderer and Witnesses? \_\_\_\_\_ (Yes/ No)

Signature: \_\_\_\_\_  
(Person authorised to sign the tender)

**Note:** In the event of conflict between the data provided in this summary and that given in the Form of Offer, C1.1, the latter shall prevail.

## **PART T1: TENDERING PROCEDURES**

## T1.1 TENDER NOTICE AND INVITATION TO TENDER

**TITLE: TENDER NO.: UMALUSI (20-21) T0003 - RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING FOR OFFICE SPACE LOCATED AT 41 GENERAL VAN RYNEVELD STREET, PERSEQUOR TECHNOPARK, PRETORIA, 0020**

Umalusi (the Employer) invites Tenderers to tender for:

**RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING FOR OFFICE SPACE LOCATED AT 41 GENERAL VAN RYNEVELD STREET, PERSEQUOR TECHNOPARK, PRETORIA, 0020**

Compulsory tender briefing session:

<b>Invitation Date:</b>	<b>Tender</b>	12 March 2021
<b>Briefing Date:</b>	<b>Time:</b>	23 March 2021
<b>Venue:</b>		10h00 to 15h00 (see notes below) 41 General Van Ryneveld Street, Persquor Technopark, Pretoria, 0020

Notes to tenderers:

1. Only tenderers with a CIDB grading of 7GB or higher are legible for submission of tenders.
2. Only electronic documents will be provided. The tender documents will be available for download from Umalusi's website ([www.umalusi.org.za](http://www.umalusi.org.za))
3. Failure to attend the compulsory briefing session will invalidate the tender offer.
4. Due to the Covid-19 regulations, not more than 50 people are allowed to attend the briefing meeting. In this regard, various sessions not more than 2 hours will be arranged on the briefing day depending on the number confirmed tenderers.
5. It is compulsory for Tenderers to confirm their attendance at the briefing meeting by no later than 17<sup>th</sup> March 2021 at 12h00 to the email address provided below for queries. Umalusi will thereafter inform each contractor of the respective time slots by 12h00 on 18<sup>th</sup> March 2021. Tenderers who did not confirm their attendance will not be allowed in the briefing session/s.
6. Contractors must arrive at least 30 minutes prior to each briefing session to allow the screening process to take place.
7. In order to make sure that contact is minimised, tenderers are to ensure that the briefing session attendance certificate is attached to the advert/document to be signed or stamped on the day of the briefing session and later on to be attached to the document as part of the returnable documents.
8. The following Covid-19 protocol will apply:
  - a. No mask, no entry. No plastic/PVC face shields and buffs will be allowed. Only 3 – ply surgical disposable and a cloth mask will be allowed.
  - b. The screening procedure will be followed. If the representative's temperature is above 38°C entry will be denied.
  - c. One company representative will be allowed to attend.
  - d. 2m social distancing and sanitising will have to be adhered to.
  - e. Umalusi will provide the screening and sanitising equipments.

Queries relating to the issue of these documents shall be addressed to the Employer's Agent (s):

<b>Representative to whom Procurement &amp; Technical Enquiries must be addressed</b>	Name: Umalusi Supply Chain Management (SCM) Email address: <a href="mailto:Tenders@umalusi.org.za">Tenders@umalusi.org.za</a> (All enquires must be in writing and issued via email)
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**Tender Offers shall be delivered to:**

Place: Umalusi office reception at 37 General Van Ryneveld Street, Persequor Technopark, Pretoria, 0020  
Date: 9<sup>th</sup> April 2021  
Time: 12h00

*NB: Tender submissions received after the closing date and time will not be accepted.*

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

Tenderers are to note that there will be no public opening due to Covid-19 safety protocol. The tender results will be published on the advertising portals.

## T1.2 TENDER DATA & EVALUATION CRITERIA

The conditions of tender are the Standard Conditions of Tender as Contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement (July 2015) Board Notice 136 of 2015. <http://www.cidb.org.za/publications/Documents/Standard%20for%20Uniformity%20in%20Construction%20Procurement%20-%20July%202015.pdf>

The Tender Data below provides clarity, amends or adds to the standard conditions of tender. Each item of the data given below is cross-referenced to the clause in the standard conditions of tender to which it mainly applies.

CLAUSE NUMBER	TENDER DATA & EVALUATION CRITERIA
	<b>F.1.1 Actions</b>
F.1.1	The Employer is the <b>UMALUSI Council for Quality Assurance in General and Further Education and Training</b>
	<b>F.1.2 Tender Documents</b>
F.1.2	<p>The Tender Documents issued by the Employer comprise the documents as listed on the Contents Page.</p> <p>In addition, Tenderers are advised, in their own interest, to obtain their own copies of the following acts, regulations, standards and conditions of contract included, by reference, in this procurement document.</p> <ol style="list-style-type: none"> <li>1. The CIDB Standard for Uniformity in Construction Procurement (July 2015)</li> <li>2. JBCC Contract (JBCC (Joint Building Contracts Committee) Principal Building Agreement – Edition 6.2 – May 2018)</li> <li>3. Other documents as referenced in this document</li> </ol>
	<b>F.1.4 Communication and Employer's agent</b>
F.1.4	See T1.1 Notice to Tenderers.
	<b>F.1.5 Employer's Rights</b>
F.1.5.3	The Employer reserves the right not to appoint the lowest submitted price. The Employer reserves the right to award parts of the tender to different Tenderers, to make no award at all and to withdraw or cancel the tender at its discretion
	<b>F.2.1 Eligibility</b>
F.2.1	<p>The Employer will only contract with those Tenderers who satisfy the following criteria:</p> <ol style="list-style-type: none"> <li>1. South African Revenue Service (SARS) Tax Compliance Requirements - It is a condition of the Tender that the taxes of the successful Tenderer must be in order with SARS. <ol style="list-style-type: none"> <li>a) The original Tax Compliance PIN Certificate must be submitted together with the Tender.</li> <li>b) Tenderers who are not in possession of an Original Valid Tax Compliance PIN Certificate are required to complete the <b>Letter of Authorisation Form</b> on T2.4 of the Tender document, granting the Employer authority to verify/ validate the Tenderers Tax Compliance Status with SARS. The Tenderer is also required to attach a copy of the Tenderers Tax Compliance Status printed from the online portal.</li> </ol> </li> </ol>

**T1.2 TENDER DATA & EVALUATION CRITERIA (CONTINUED)**

CLAUSE NUMBER	TENDER DATA & EVALUATION CRITERIA (CONTINUED)
	<b>F.2.1 Eligibility</b>
F.2.1	<p>2. The Tenderer or any of its directors/ shareholders should not be listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector.</p> <p>3. The Tenderer has not:</p> <ul style="list-style-type: none"> <li>i) abused the Employer's Supply Chain Management System; or</li> <li>ii) failed to perform on any previous contract and has been given a written notice to this effect.</li> </ul> <p>4. The Tenderer has completed and signed the Declaration of Interest and there are no conflicts of interest which may impact on the Tenderer's ability to perform the contract in the best interests of the Employer or potentially compromise the tender process.</p> <p>5. The Tenderer has completed and signed the Declaration of Independent Tender Determination and has arrived at the accompanying tender independently from, and without consultation, communication, agreement, or arrangement with any competitor.</p> <p>6. CIDB Certificate confirming Grading of <b>7GB</b> or higher</p> <p>7. Proof of registration on the National Treasury Central Supplier Database (CSD)</p> <p>8. The Tenderer has fully complied with this request for TENDER and furnished all the information and documents required listed in the tender returnable schedule.</p>
	<b>F.2.6 Acknowledge Addenda</b>
F.2.6	Tenderers are to acknowledge receipt of any addenda in the method stated on the addenda.
	<b>F.2.11 Alterations to Documents</b>
F.2.11	Tenderers shall not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer.
	<b>F.2.12 Alternative Tender Offers</b>
F.2.12	No alternative tender offers shall be considered.
	<b>F.2.13 Submitting a Tender Offer</b>
	<p>COMMON LAW OR BY-LAW REQUIREMENTS</p> <p>No liability for not specifically mentioning any normal contractual, Common Law or by-law requirements will be accepted by the Employer. The Tenderer warrants that it has familiarised itself with all the applicable laws and will comply therewith for the purposes of the tender and any agreement which may result therefrom.</p>
F.2.13.5	The Employer's details and address for delivery of tender offers are stated in T1.1 <b>Tender Notice and Invitation to Tender.</b>
F.2.13.6	A two-envelope system is <b>not</b> applicable

**T1.2 TENDER DATA & EVALUATION CRITERIA (CONTINUED)**

CLAUSE NUMBER	TENDER DATA & EVALUATION CRITERIA (CONTINUED)						
	<b>F.2.13 Submitting a Tender Offer (Continued)</b>						
F.2.13.7	<p><b>Identification details</b> The identification details which must be stated in the tender offer outer package are:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><b>TENDER NUMBER: UMALUSI (20-21) T0003</b></td> </tr> <tr> <td style="padding: 2px;"><b>TITLE: RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING FOR OFFICE SPACE LOCATED AT 41 GENERAL VAN RYNEVELD STREET, BRUMMERIA, PRETORIA, 0020</b></td> </tr> <tr> <td style="padding: 2px;"><b>CLOSING DATE: 09 APRIL 2021</b></td> </tr> <tr> <td style="padding: 2px;"><b>CLOSING TIME: 12h00</b></td> </tr> <tr> <td style="padding: 2px;"><b>TENDERER'S NAME :</b></td> </tr> <tr> <td style="padding: 2px;"><b>TENDERER'S ADDRESS :</b></td> </tr> </table>	<b>TENDER NUMBER: UMALUSI (20-21) T0003</b>	<b>TITLE: RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING FOR OFFICE SPACE LOCATED AT 41 GENERAL VAN RYNEVELD STREET, BRUMMERIA, PRETORIA, 0020</b>	<b>CLOSING DATE: 09 APRIL 2021</b>	<b>CLOSING TIME: 12h00</b>	<b>TENDERER'S NAME :</b>	<b>TENDERER'S ADDRESS :</b>
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<b>TENDERER'S NAME :</b>							
<b>TENDERER'S ADDRESS :</b>							
F2.13.5	<p>Facsimile, Emailed or Postal Tenders will not be considered. The Employer will not be liable for any costs incurred in the preparation of the tender.</p> <p>When a Tenderer has been advised by telegram or letter of acceptance of his tender, the office of the SA Post Office Limited shall be regarded as the agent of the Tenderer and delivery of such notice of acceptance to the office of the SA Post Office Limited, shall be considered as delivery to the Tenderer.</p> <p>Where a tender has been informed per facsimile message of the acceptance of his tender, the acknowledgment of receipt transmitted by his facsimile machine shall be regarded as proof of delivery to the Tenderer</p>						
	<b>F.2.15 Closing Time</b>						
F.2.15	The closing time for submission of tender offers is as stated in <b>T1.1 Tender Notice and Invitation to Tender</b> .						
	<b>F.2.16 Tender Offer Validity</b>						
F.2.16.1	The tender offer validity period is <b>90 working days</b> from the closing date.						
	<b>F.2.23 Certificates</b>						
F.2.23	<p>The Tenderer is required to submit with his tender:</p> <ol style="list-style-type: none"> <li>1) A <b>Valid Tax Compliance PIN Certificate</b> issued by the South African Revenue Services.</li> </ol> <p>Tenderers are required to complete the <b>Letter of Authorisation Form</b> on T2.4 of the Tender document, granting the Employer authority to verify/ validate the Tenderers Tax Compliance Status with SARS. The Tenderer is also required to attach a copy of the Tenderers Tax Compliance Status printed from the online portal.</p> <p>The Tenderer is required to submit with his tender:</p> <ol style="list-style-type: none"> <li>2) CIDB Grading Certificate</li> <li>3) Company Registration Certificate</li> <li>4) VAT Registration Certificate</li> <li>5) Proof of good standing in terms of the COID Act</li> <li>6) B-BBEE Status Level Certificate or sufficient evidence to confirm status as a qualifying EME</li> <li>7) Registration Certificate for Unemployment Insurance Fund and current proof of compliance</li> <li>8) Proof of registration on the National Treasury Central Supplier Database (CSD)</li> </ol>						

## T1.2 TENDER DATA & EVALUATION CRITERIA (CONTINUED)

CLAUSE NUMBER	TENDER DATA & EVALUATION CRITERIA (CONTINUED)
	<b>F.3.4 Opening of Tender Submissions</b>
F.3.4	Tenders shall be opened immediately after the closing time for tenders as stipulated in T1.1 Tender Notice and Invitation to Tender. The venue of the Tender opening shall be at UMALUSI, 37 General Van Ryneveld Street, Brummeria, Pretoria, 0020
	<b>F3.8 Test for Responsiveness</b>
F.3.8	Submission all documents listed as compulsory in the Returnable Schedule, item T2.1
	<b>F.3.11 Evaluation of Tender Offers</b>
F.3.11.3 F.3.11.7	<p>The Employer applies the two-stage process of evaluating tenders, namely functionality then Price/ BBEE component, using the preferential procurement mechanism of the 80/20 rule.</p> <p><b>FUNCTIONALITY</b></p> <ul style="list-style-type: none"> <li>All tenders duly lodged as specified in this document will be examined to determine compliance with tender requirements and conditions. Tenders with deviations from the requirements/ conditions, will be eliminated from further consideration.</li> <li>Firstly, the assessment of functionality will be done in terms of the evaluation criteria and minimum threshold. A tender will be disqualified if it fails to meet the minimum threshold for functionality.</li> <li>Thereafter, only the qualifying Tenders will be evaluated in terms of the 80/20 preference mechanism, where 80 points will be used for price and 20 points are allocated to Broad-Based Black Economic Empowerment, in line with the grading per the B-BBEE Act in place at the time of the advertisement.</li> </ul> <p><b>Elimination of Proposals on Grounds of Functionality</b></p> <p><b>Scoring Functionality threshold for this Tender is 70%. Failure to meet this threshold will lead to disqualification of the Tenderer.</b></p> <p>The following preference point system is applicable to this Tender: The 80/20 system for requirements with a Rand value equal to or above R30,000 up to R50 Million (all applicable taxes included) as stipulated in the Preferential Procurement Policy Framework Act (Act Number 5 of 2000) of the GGDA's Procurement Policies and Procedures</p> <p><b>ADJUDICATION USING POINT SYSTEM</b></p> <p>The Tenderer obtaining the highest number of total points will be awarded the contract.</p> <ul style="list-style-type: none"> <li>Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.</li> <li>Points scored must be rounded off to the nearest 2 decimals places.</li> <li>In the event that two or more Tenders have scored equal total points, the successful Tender must be the one scoring the highest number of preference points for B-BBEE.</li> <li>However, the functionality is part of the evaluation process and in the event that two or more Tenders have scored equal points including preference points for B-BBEE, the successful Tender must be the one scoring the highest score for functionality.</li> <li>Should two or more Tenders be equal in all respects, the award shall be decided by the drawing of lots.</li> </ul>

**T1.2 TENDER DATA & EVALUATION CRITERIA (CONTINUED)**

CLAUSE NUMBER	TENDER DATA & EVALUATION CRITERIA (CONTINUED)																				
	<b>F.3.11 Evaluation of Tender Offers (Continued)</b>																				
F.3.11.3 F.3.11.7	<p><b>POINTS AWARDED FOR PRICE</b></p> <p>THE PREFERENCE POINT 80/20 SYSTEM FORMULA A maximum of 80 points is allocated for price on the following basis: <b>80/20</b></p> $P_s = 80 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$ <p>Where                      Ps = Points scored for comparative price of Tender under consideration                      Pt = Comparative price of Tender under consideration                      Pmin = Comparative price of lowest acceptable Tender</p> <p><b>POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION</b></p> <p>In terms with the Preferential Procurement Mechanism, preference points will be awarded to a Tenderer for attaining the B-BBEE status level of contribution in accordance with the table below:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="background-color: #1a3d4d; color: white;">B-BBEE STATUS LEVEL OF CONTRIBUTOR</th> <th style="background-color: #1a3d4d; color: white;">NUMBER OF POINTS (80/20 SYSTEM)</th> </tr> </thead> <tbody> <tr><td>1</td><td>10</td></tr> <tr><td>2</td><td>9</td></tr> <tr><td>3</td><td>6</td></tr> <tr><td>4</td><td>5</td></tr> <tr><td>5</td><td>4</td></tr> <tr><td>6</td><td>3</td></tr> <tr><td>7</td><td>2</td></tr> <tr><td>8</td><td>1</td></tr> <tr><td>Non-compliant contributor</td><td>0</td></tr> </tbody> </table> <p><b>POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION (CONTINUED)</b></p> <ul style="list-style-type: none"> <li>• Tenderers who qualify as EMEs in terms of the B-BBEE Act must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by the South African National Accreditation System (SANAS).</li> <li>• Tenderers other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Verification Agency accredited by SANAS.</li> <li>• A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.</li> </ul>	B-BBEE STATUS LEVEL OF CONTRIBUTOR	NUMBER OF POINTS (80/20 SYSTEM)	1	10	2	9	3	6	4	5	5	4	6	3	7	2	8	1	Non-compliant contributor	0
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**T1.2 TENDER DATA & EVALUATION CRITERIA (CONTINUED)**

CLAUSE NUMBER	TENDER DATA & EVALUATION CRITERIA (CONTINUED)																												
	<b>F.3.11 Evaluation of Tender Offers (Continued)</b>																												
F.3.11.9	<p><b>POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION (CONTINUED)</b></p> <ul style="list-style-type: none"> <li>A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate Tender.</li> <li>A Tenderer will not be awarded points for B-BBEE status level if it is indicated in the Tender documents that such a Tenderer intends sub-contracting more than 30% of the value of the contract to any other enterprise that does not qualify for at least the points that such a Tenderer qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.</li> </ul> <p>The minimum number of evaluation points for quality is 70. Tender offers that fail to score the minimum number of points for quality will be rejected as non-responsive.</p> <p>The evaluation criteria and maximum score in respect of each of the criteria are as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #1a3d4d; color: white;">REFERENCE</th> <th style="background-color: #1a3d4d; color: white;">PAGE</th> <th style="background-color: #1a3d4d; color: white;">QUALITY CRITERIA</th> <th style="background-color: #1a3d4d; color: white;">MAX. NUMBER OF POINTS</th> </tr> </thead> <tbody> <tr> <td>T2.14</td> <td>37 - 39</td> <td>Tenderers Experience</td> <td>30</td> </tr> <tr> <td>T2.15</td> <td>40 – 43</td> <td>Organogram and Experience of Key Staff Personal</td> <td>30</td> </tr> <tr> <td>T2.16</td> <td>44</td> <td>Construction Methodology</td> <td>20</td> </tr> <tr> <td>T2.17</td> <td>45</td> <td>Quality Assurance</td> <td>10</td> </tr> <tr> <td>T2.18</td> <td>46</td> <td>Preliminary Programme</td> <td>10</td> </tr> <tr> <td colspan="3"><b>TOTAL</b></td> <td><b>100</b></td> </tr> </tbody> </table> <p>Tenderers who do not submit the above schedules and the associated documents will be scored as 'no response'.</p>	REFERENCE	PAGE	QUALITY CRITERIA	MAX. NUMBER OF POINTS	T2.14	37 - 39	Tenderers Experience	30	T2.15	40 – 43	Organogram and Experience of Key Staff Personal	30	T2.16	44	Construction Methodology	20	T2.17	45	Quality Assurance	10	T2.18	46	Preliminary Programme	10	<b>TOTAL</b>			<b>100</b>
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<b>TOTAL</b>			<b>100</b>																										
	<b>F.3.13 Acceptance of Tender Offer</b>																												
F.3.13	<p>Tenders will only be accepted if:</p> <ol style="list-style-type: none"> <li>The Tenderer complies with eligibility criteria as stated in F.2.1.</li> <li>The Tenderer has completed all sections of tender document.</li> <li>The Tenderer submits an original or certified B-BBEE Certificate, valid at the time of closing.</li> <li>In instances where any mandatory submission, in a form of Status or Certificates, expires after tender closing or during the evaluation process such Tenderer may be requested to submit valid documentation within twenty-one (21) days from the date of request, failing which, the Tenderer will be deemed to be non-responsive.</li> </ol> <p>Only Tenderers who submit the information contained in items <b>[A – C]</b> above, in the prescribed format will proceed to the next phase of evaluation.</p> <p><b>The Contractor is required to subcontract 30% of the contract value to local subcontractors and/or 51% to black woman owned companies, located within the Gauteng area only. The contractor will not be allowed to subcontract to companies related to them or their subsidiaries (Refer to Schedule T2.31)</b></p>																												
	<b>F.3.17 Provide Copies of the Contracts</b>																												
F.3.17	The number of paper copies of the signed contract to be provided by the Employer is <b>one</b> .																												

## T2.1 LIST OF ALL RETURNABLE & COMPULSORY DOCUMENTS

The Tenderer shall complete and submit the following returnable schedules and documents:

### Returnable Schedules

Item	Description	Details	Compulsory (Yes / No) Non-Submission will render to Tenderer non-responsive	Compulsory (Yes / No) For Tender Evaluation Purposes
<b>Documents Relating to the Tendering Entity</b>				
T2.2	Declaration of Interest	Completion of attached forms		<b>Yes</b>
T2.3	Declaration of Tenderer's Past Supply Chain Management Practices	Completion of attached forms		<b>Yes</b>
T2.4	Tax Compliance Requirements	<p>Original current tax compliance pin certificate issued by the South Africa Revenue Service in respect of the tenderers Tax Compliance Status with SARS. Failure to submit a VALID Tax Compliance Pin Certificate will result in the invalidation of the Tender.</p> <p>SARS is no longer issues paper-based Tax clearance certificates. Tenderers are required to complete the Letter of Authorisation Form on T2.4 of the Tender document, granting the Employer authority to verify/ validate the Tenderers Tax Compliance Status with SARS. The Tenderer is also required to attach a copy of the Tenderers Tax Compliance Status printed from the online portal.</p>		<b>Yes</b>
T2.5	Certificate of Independent Tender Determination	Form duly completed and signed		<b>Yes</b>
T2.6	CIDB Grading	The Tenderer shall have a CIDB Grading of <b>7GB or higher</b> . The Tenderer shall provide a certificate valid at the time of closing and at the time of award.	<b>Yes</b>	
T2.6A	Certificate of Attendance at Compulsory Clarification Meeting	Relevant annexure duly signed and dated by an authorised signatory	<b>Yes</b>	
T2.7	Authority for Signatory	Form duly completed and signed		<b>Yes</b>
T2.8	Mandatory Company Registration Certificates	Copies of CIPC Registration documents.		<b>Yes</b>
T2.9	Vat Registration Certificate	Proof of registration for VAT with SARS		<b>Yes</b>

## T2.1 LIST OF ALL RETURNABLE & COMPULSORY DOCUMENTS (CONTINUED)

Item	Description	Details	Compulsory (Yes / No) Non-Submission will render to Tenderer non-responsive	Compulsory (Yes / No) For Tender Evaluation Purposes
<b>Documents Relating to the Tendering Entity</b>				
T2.10	Letter of Good Standing in terms of COID Act*	Copy of a letter of Good Standing issued by the Department of Labour, in accordance with the Compensation for Occupational Injuries and Diseases Act (COIDA). –must be valid at the time of close of tender and a valid certificate must be produced at the time of award if the certificate expires between close of tender and award.	Yes	
T2.11	Shareholders / Member / Partner information	Agreement and ID Document of all Member/ Shareholder/ other as applicable		Yes
T2.12	CSD Registration	Proof of registration with the National Treasury Central Supplier Database. If it is a Joint Venture, all parties should also be registered on the CSD database and provide the Proof of registration accordingly.	Yes	
T2.13	Tenderers Financial Standing	General Bank Report from Bank and/ or Banker		Yes
<b>Documents Required for Evaluation of Functionality (Threshold 70 Points)</b>				
T2.14	Tenderer's Experience Schedule (30 Points)	- General Experience in Construction Projects scheduled in the format provided		Yes
T2.15	Organogram and Experience of Key Personnel (30 Points)	- Organogram Specific for this Tender - Schedule of Key Personnel and years' experience - Skills and Resources		Yes
T2.16	Construction Methodology (20 Points)	- Technical Methodology in terms of execution of the works		Yes
T2.17	Quality Assurance (10 Points)	- Proof of Quality Management System		Yes
T2.18	Preliminary Programme (10 Points)	- Detailed Activities and Dependencies - Activity Durations Clearly indicated - Project within the Stated Contract period		Yes
<b>Documents Required for Evaluation of B-BBEE</b>				
T2.19	Preference Points claim form in terms of the Employer's Procurement Policy	Tenderers other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS		Yes

## T2.1 LIST OF ALL RETURNABLE & COMPULSORY DOCUMENTS (CONTINUED)

Item	Description	Details	Compulsory (Yes / No) Non-Submission will render to Tenderer non-responsive	Compulsory (Yes / No) For Tender Evaluation Purposes
<b>Documents Relating to the Tender Submission</b>				
T2.20	Schedule of Proposed Subcontractors	Submission of a schedule of Sub-contractors intended to be used on the project		<b>Yes</b>
T2.21	List of Proposed Specialist Subcontractors	Details of Specialist Sub-contractors intended to be used on the project		<b>Yes</b>
T2.22	Particulars of Registered Electrical Subcontractor	Submission of all Prescribed Information		<b>Yes</b>
T2.23	Particulars of Registered Electronic Subcontractor	Submission of all Prescribed Information		<b>Yes</b>
T2.24	Particulars of Registered Plumbing Subcontractor	Submission of all Prescribed Information		<b>Yes</b>
T2.25	Particulars of Registered Airconditioning Subcontractor	Submission of all Prescribed Information		<b>Yes</b>
T2.26	Particulars of Registered Lift Subcontractor	Submission of all Prescribed Information		<b>Yes</b>
T2.27	Technical Data: Electrical Installation	Submission of all Technical Data		<b>Yes</b>
T2.28	Technical Data: Electronic Installation	Submission of all Technical Data		<b>Yes</b>
T2.29	Technical Data: Airconditioning (HVAC) Installation	Submission of all Technical Data		<b>Yes</b>
T2.30	Record of Addenda to Tender Documents	Acknowledgement of receipt of addenda		<b>Yes, if applicable</b>
T2.31	Subcontracting Agreement	Form duly completed and signed including Submission of all Prescribed Information		<b>Yes</b>
T2.32	Declaration of Correctness of Tender	Form duly completed and signed		<b>Yes</b>
C1.1	Form of Offer and Acceptance	Completion and Signing of the Form of Offer and Acceptance		<b>Yes</b>
C2.2	Pricing Schedule	Completion of the Pricing Schedule and Summary Page		<b>Yes</b>

**T2.2 DECLARATION OF INTEREST – SBD 4**

1.	If Tenderer is a Sole Proprietor: Are you (or your spouse, child or parent) currently employed by Umalusi?	Yes	No
1.1	If yes, provide particulars: ..... ..... .....		
2.	If Tenderer is a Sole Proprietor: Have you (or your spouse, child or parent) been employed by Umalusi in the past 12 months?	Yes	No
2.1	If yes, provide particulars: ..... ..... .....		
3.	If Tenderer is a Sole Proprietor: Do you (or your spouse, child or parent) have any relationship (family, friend or other) with any person who may be involved with the evaluation or adjudication of this Tender?	Yes	No
3.1	If yes, provide particulars: ..... ..... .....		
4	If Tenderer is a company, close corporation, partnership, trust or association: Are any of the Tenderer's employees, shareholders, directors, members, partners, beneficiaries or trustees (or any of their spouses, children or parents) currently employed by Umalusi?	Yes	No
4.1	If yes, provide particulars: ..... ..... .....		
5.	If Tenderer is a company, close corporation, partnership, trust or association: Have any of the Tenderer's employees, shareholders, directors, members, partners, beneficiaries or trustees (or any of their spouses, children or parents) been employed by Umalusi in the past 12 months?	Yes	No
5.1	If yes, provide particulars: ..... ..... .....		
6.	If Tenderer is a company, close corporation, partnership, trust or association: Do any of the Tenderer's employees, shareholders, directors, members, partners, beneficiaries or trustees (or any of their spouses, children or parents) have any relationship (family, friend or other) with any person who may be involved with the evaluation or adjudication of this Tender?	Yes	No
6.1	If yes, provide particulars: ..... ..... .....		

**T2.2 DECLARATION OF INTEREST – SBD 4 (CONTINUED)**

I, \_\_\_\_\_ (full names), certify that the information furnished in this declaration of interest is true and correct.

SIGNED at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Signed by or on behalf of **THE TENDERER**

If signed on behalf of the Tenderer, the signatory hereby warrants that (she/ he) is duly authorised to sign this declaration on its behalf.

**Signature:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**T2.3 DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES  
(TO BE COMPLETED BY TENDERER) – SBD 8**

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

Item	Question	Yes	No
4.1	Is the Tenderer or any of its directors listed on the National Treasury/ the Employer's database as companies or persons prohibited from doing business with the public sector?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars _____ _____ _____		
4.2	Is the Tenderer or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars _____ _____ _____		
4.3	Was the Tenderer or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars _____ _____ _____		
4.4	Was any contract between the Tenderer and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars _____ _____ _____		

**T2.3 DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES  
(TO BE COMPLETED BY TENDERER) – SBD 8 (CONTINUED)**

I, the undersigned

(full name) \_\_\_\_\_

Certify that the information furnished on this declaration form is true and correct. I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Position**

\_\_\_\_\_  
**Name of Tenderer**

## T2.4 TAX COMPLIANCE REQUIREMENTS – SBD 2

It is a condition of a Tender that the taxes of the successful Tenderer **must** be in order, or that satisfactory arrangements have been made with the South African Revenue Service (SARS) to meet the Tenderer's tax obligations.

1. A Tax Compliance Pin Certificate issued by SARS shall be submitted with the Tender.
2. Certified copies of the Tax Clearance Certificate will not be acceptable.
3. SARS no longer issues paper-based Tax clearance certificates. Tenderers are required to complete the **Letter of Authorisation Form** on T2.4 of the Tender document, granting the Employer authority to verify/ validate the Tenderers Tax Compliance Status with SARS. The Tenderer is also required to attach a copy of the Tenderers Tax Compliance Status printed from the online portal.
4. In Tenders where Consortia/ Joint Ventures/ Sub-Service Providers are involved; each party must submit a separate valid Tax Compliance Pin Certificate for their respective organisation.
5. Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website [www.sars.gov.za](http://www.sars.gov.za).
6. Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website [www.sars.gov.za](http://www.sars.gov.za).

**T2.4 TAX COMPLIANCE REQUIREMENTS – SBD 2 (CONTINUED)**

**LETTER OF AUTHORISATION**

I, the undersigned

(full name) \_\_\_\_\_

Hereby grant authorisation to the Employer to validate my Organisation/ Companies current tax compliance status.

**Tax Payers Tax No.:** \_\_\_\_\_

**Tax Payers Pin No. issued by SARS:** \_\_\_\_\_

\_\_\_\_\_  
**Signature of authorised representative/ signatory**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Position**

\_\_\_\_\_  
**Name of Tenderer**

Tenderers are to ensure that the information supplied in the above form is completed in whole and that the information is true and correct, failing which, this will lead to the Employer not being able to validate the tenderers tax compliance status online, which shall lead to the invalidation of the tenderers Tender.

**COMPANY STAMP**

## T2.5 CERTIFICATE OF INDEPENDENT TENDER DETERMINATION – SBD 9

1. This section must form part of all tenders invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive tendering (or tender rigging). Collusive tendering is a *per se* prohibition meaning that it cannot be justified under any grounds.
3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorises accounting officers and accounting authorities to:
  - a. Disregard the tender of any tenderer if that Tenderer, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
  - b. Cancel a contract awarded to a Service Provider of goods and services if the Service Provider committed any corrupt or fraudulent act during the tendering process or the execution of that contract.
4. This Standard Tendering Document SBD serves as a certificate of declaration that would be used by institutions to ensure that, when tenders are considered, reasonable steps are taken to prevent any form of tender-rigging.
5. In order to give effect to the above, the attached Certificate of Independent Tender Determination (SBD 9) must be completed and submitted with the tender:
  - **Includes price quotations, advertised competitive tenders, limited tenders and proposals.**
  - **Tender rigging (or collusive tendering) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and/ or services for Employers who wish to acquire goods and/ or services through a tendering process. Tender rigging is, therefore, an agreement between competitors not to compete against each other.**

**T2.5 CERTIFICATE OF INDEPENDENT TENDER DETERMINATION – SBD 9 (CONTINUED)**

I, the undersigned, in submitting the accompanying tender:

---

(Tender Number and Description)

in response to the invitation for the tender made by:

---

(Name of Institution)

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

I certify, on behalf of: \_\_\_\_\_  
that:

(Name of Tenderer)

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying tender will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorised by the Tenderer to sign this Certificate, and to submit the accompanying tender, on behalf of the Tenderer.
4. Each person whose signature appears on the accompanying tender has been authorised by the Tenderer to determine the terms of, and to sign the tender, on behalf of the Tenderer.
5. For the purposes of this Certificate and the accompanying tender, I understand that the word “competitor” shall include any individual or organisation, other than the Tenderer, whether or not affiliated with the Tenderer, who:
  - (a) has been requested to submit a tender in response to this tender invitation;
  - (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the Tenderer and/ or is in the same line of business as the Tenderer.
6. The Tenderer has arrived at the accompanying tender independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive tendering.

**T2.5 CERTIFICATE OF INDEPENDENT TENDER DETERMINATION – SBD 9 (CONTINUED)**

7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation);
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a tender;
  - (e) the submission of a tender which does not meet the specifications and conditions of the tender;  
or
  - (f) tendering with the intention not to win the tender.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this tender invitation relates.
9. The terms of the accompanying tender have not been, and will not be, disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to tenders and contracts, tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.
11. 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.

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Position**

\_\_\_\_\_  
**Name of Tenderer**

**T2.6 CIDB GRADING CERTIFICATE**

*[CIDB Grading certificate from the Construction Industry Development Board to be inserted here]*

**T2.6A CERTIFICATE OF ATTENDANCE AT COMPULSORY CLARIFICATION MEETING**

**Compulsory Briefing Meeting / Site Inspection: 19 March 2021 at 41 General Van Ryneveld Street, Brummeria, Pretoria, 0020 from 10h00 to 15h00.**

This is to certify that the following person attended the compulsory briefing meeting:

<b>NAME</b>	
<b>COMPANY</b>	
<b>SESSION AND TIME</b>	
<b>UMALUSI REPRESENTATIVE (FULL NAME AND SURNAME)</b>	
<b>UMALUSI REPRESENTATIVE SIGNATURE CONFIRMING SITE BRIEFING ATTENDANCE</b>	

**T2.7 AUTHORITY FOR SIGNATORY**

*Fill in the relevant portion applicable to the type of organisation*

**A. COMPANIES**

If a Tenderer is a company, a certified copy of the resolution by the board of directors, personally signed by the chairperson of the board, authorising the person who signs this Tender to do so, as well as to sign any contract resulting from this Tender and any other documents and correspondence in connection with this Tender and/ or contract on behalf of the company must be submitted with this Tender, that is before the closing time and date of the Tender.

**AUTHORITY BY BOARD OF DIRECTORS**

By resolution passed by the Board of Directors on

\_\_\_\_\_ 20 \_\_\_\_\_

Mr/ Mrs \_\_\_\_\_ (whose signature appears below) has been duly authorised to sign all documents in connection with this Tender on behalf of

(Name of Company) \_\_\_\_\_

**IN HIS/ HER CAPACITY AS:** \_\_\_\_\_

**SIGNED ON BEHALF OF COMPANY:** \_\_\_\_\_

(PRINT NAME)

**SIGNATURE OF SIGNATORY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**WITNESSES:** \_\_\_\_\_

**T2.7 AUTHORITY FOR SIGNATORY (CONTINUED)**

**B. SOLE PROPRIETOR (ONE - PERSON BUSINESS)**

I, the undersigned \_\_\_\_\_

Hereby confirm that I am the sole owner of the business trading as

\_\_\_\_\_

\_\_\_\_\_

**SIGNATURE**

\_\_\_\_\_

**DATE**

Sole proprietors are required to provide a trade name certificate (file a form) in the city/ province where the business is allocated.

The tenderer is to submit proof of this trading certificate and append to this returnable. This tender may not be considered if the tenderer fails to submit same.

**T2.7 AUTHORITY FOR SIGNATORY (CONTINUED)**

**C. PARTNERSHIP**

The following particulars in respect of every partner must be furnished and signed by every partner:

<b>Full name of Partner</b>	<b>Residential Address</b>	<b>Signature</b>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

We, the partners in the business trading as \_\_\_\_\_

Hereby authorise \_\_\_\_\_

To sign this Tender as well as any contract resulting from the Tender and any other documents and correspondence in connection with this Tender and/ or contract on behalf of

_____	_____	_____
<b>Signature</b>	<b>Signature</b>	<b>Signature</b>
_____	_____	_____
<b>Date</b>	<b>Date</b>	<b>Date</b>

**T2.7 AUTHORITY FOR SIGNATORY (CONTINUED)**

**D. CLOSE CORPORATION**

In the case of a close corporation submitting a Tender, a certified copy of the Founding Statement of such corporation shall be included with the Tender, together with the resolution by its members authorising a member or other official of the corporation to sign the documents on their behalf.

By resolution of members at a meeting on \_\_\_\_\_ 20 \_\_\_\_\_

at \_\_\_\_\_

Mr/ Ms \_\_\_\_\_, whose signature appears below, has been authorised to sign all documents in connection with this Tender on behalf of (Name of Close Corporation)

\_\_\_\_\_  
\_\_\_\_\_

**SIGNED ON BEHALF OF CLOSE CORPORATION:**

(PRINT NAME) \_\_\_\_\_

IN HIS/ HER CAPACITY AS \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE OF SIGNATORY: \_\_\_\_\_

WITNESSES: 1. \_\_\_\_\_

2. \_\_\_\_\_

**T2.7 AUTHORITY FOR SIGNATORY (CONTINUED)**

**E. CO-OPERATIVE**

A certified copy of the Constitution of the co-operative must be included with the Tender, together with the resolution by its members authoring a member or other official of the co-operative to sign the Tender documents on their behalf.

By resolution of members at a meeting on \_\_\_\_\_ 20 \_\_\_\_\_

at \_\_\_\_\_

Mr/ Ms \_\_\_\_\_, whose signature appears below, has been authorised to sign all documents in connection with this Tender on behalf of (Name of Co-Operative)

\_\_\_\_\_

**SIGNATURE OF AUTHORISED REPRESENTATIVE/ SIGNATORY:**

(PRINT NAME) \_\_\_\_\_

**IN HIS/ HER CAPACITY AS** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**SIGNED ON BEHALF OF CO-OPERATIVE:** \_\_\_\_\_

**NAME IN BLOCK LETTERS:** \_\_\_\_\_

**WITNESSES: 1.** \_\_\_\_\_

**2.** \_\_\_\_\_

**T2.7 AUTHORITY FOR SIGNATORY (CONTINUED)**

**F. JOINT VENTURES**

If a Tenderer is a joint venture, a certified copy of the resolution/ agreement passed/ reached signed by the duly authorised representatives of the enterprises, authorising the representatives who sign this tender to do so, as well as to sign any contract resulting from this tender and any other documents and correspondence in connection with the tender and/ or contract on behalf of the joint venture must be submitted with this tender, before the closing time and date of the tender.

Authority to sign on behalf of the Joint Venture:

By resolution/ agreement passed/ reached by the joint venture partners on \_\_\_\_\_ 20\_\_\_\_\_

Mr/ Mrs \_\_\_\_\_, Mr/ Mrs \_\_\_\_\_

Mr/ Mrs \_\_\_\_\_ and Mr/ Mrs \_\_\_\_\_  
(whose signatures appear below) have been duly authorised to sign all documents in connection with this tender on behalf of:

(Name of Joint Venture) \_\_\_\_\_

In his/ her capacity as: \_\_\_\_\_

Signed on behalf of (COMPANY NAME): \_\_\_\_\_  
(PRINT NAME)

Signature \_\_\_\_\_ Date: \_\_\_\_\_

In his/ her capacity as: \_\_\_\_\_

Signed on behalf of (COMPANY NAME): \_\_\_\_\_  
(PRINT NAME)

Signature \_\_\_\_\_ Date: \_\_\_\_\_

In his/ her capacity as: \_\_\_\_\_

Signed on behalf of (COMPANY NAME): \_\_\_\_\_  
(PRINT NAME)

Signature \_\_\_\_\_ Date: \_\_\_\_\_

In his/ her capacity as: \_\_\_\_\_

Signed on behalf of (COMPANY NAME): \_\_\_\_\_  
(PRINT NAME)

Signature \_\_\_\_\_ Date: \_\_\_\_\_

**T2.7 AUTHORITY FOR SIGNATORY (CONTINUED)**

**G. CONSORTIUM**

If a Tenderer is a consortium, a certified copy of the resolution/ agreement passed/ reached signed by the duly authorised representatives of the enterprises, authorising the representatives who sign this tender to do so, as well as to sign any contract resulting from this tender and any other documents and correspondence in connection with the tender and/ or contract on behalf of the consortium must be submitted with this tender, before the closing time and date of the tender.

Authority to sign on behalf of the consortium:

By resolution/ agreement passed/ reached by the consortium partners on \_\_\_\_\_ 20 \_\_\_\_\_

Mr/ Mrs \_\_\_\_\_,

(whose signature appear below) have been duly authorised to sign all documents in connection with this tender on behalf of:

(Name of Consortium) \_\_\_\_\_

In his/ her capacity as: \_\_\_\_\_

Signature \_\_\_\_\_ Date: \_\_\_\_\_

## **T2.8 MANDATORY COMPANY REGISTRATION CERTIFICATES**

Important note to Tenderer: The relevant supporting documents to the organisation tendering i.e. Registration Certificates for Sole Proprietors, Companies, Close Corporations, Joint Ventures, Consortiums and Partnerships, all as referred to in the foregoing forms in T2.7, must be inserted here.

***[CIPC Registration documents to be inserted here]***

**T2.9 VAT REGISTRATION CERTIFICATE**

*[VAT Registration Certificate obtained from SARS to be inserted here]*

**T2.10 LETTER OF GOOD STANDING IN TERMS OF COID ACT  
(COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT)**

*[Letters of good standing to be inserted here]*

**T2.11 SHAREHOLDER / MEMBER / PARTNER INFORMATION**

*[Agreement and ID Documents of all Member/ Shareholder/ other as applicable to be inserted here]*

**T2.12 CSD REGISTRATION CERTIFICATE**

*[National Treasury Central Supplier Database Registration Certificate obtained from National Treasury to be inserted here]*



**T2.13 TENDERERS FINANCIAL STANDING (CONTINUED)**

Satisfactory account conducted in our books       Unsatisfactory account conducted in our books

No dishonours are recorded

Dishonours on record. Date of the last dishonour

**IF SELECTED, INSERT DATE**

Considered good for normal business engagements

<b>PROJECT NUMBER</b>	
<b>PROJECT DURATION:</b>	
<b>TENDER AMOUNT:</b>	
<b>TENDER AMOUNT IN WORDS</b>	
<b>BANK RATING: [A, B OR C]</b>	

Other Comments




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**SIGNED BY MANAGER OR AUTHORISED PERSON OF BANK CONCERNED [ORIGINAL SIGNATURE]**

**BANK STAMP**

**T2.14 TENDERER'S EXPERIENCE SCHEDULE (30 points)**

The experience of the tendering entity as opposed to the key staff members/ experts, in projects of **SIMILAR TYPE AND SCALE (i.e. Similar Experience)** over the last five years, will be evaluated.

Contact details of clients of the relevant projects must also be provided.

It is **compulsory** that the tenderer completes the attached "Tenderers Experience Schedule T2.14 (Page 40)", and the client reference sheets - failing which, zero points will be awarded.

**SIMILAR EXPERIENCE** is defined as having experience in **building projects which shall have a CIDB GENERAL BUILDING (GB) Grading, which is further defined in the table below:**

DEFINITION	BASIC WORKS TYPES	EXAMPLES
<p>Construction Works that:</p> <p>a) are primarily concerned with the development, extension, installation, renewal, renovation, alteration, or dismantling of a permanent shelter for its occupants or contents; or</p> <p>b) cannot be categorised in terms of the definitions provided for civil engineering works, electrical engineering works, mechanical engineering works, or specialist works</p>	<p>Building &amp; ancillary works other than those categorised as:</p> <ul style="list-style-type: none"> <li>- civil engineering works</li> <li>- electrical engineering works</li> <li>- mechanical engineering works</li> <li>- specialist works</li> </ul>	<ul style="list-style-type: none"> <li>- Buildings for domestic, industrial, institutional or commercial occupancies</li> <li>- Car ports</li> <li>- Masonry (brick, block or stone) and lightly reinforced or unreinforced cast in-situ concrete walls and timber fences</li> <li>- Stores</li> <li>- Walls</li> </ul>

**Civil Engineering projects having a CIDB CIVIL ENGINEERING (CE) Grading as defined in the table below, will NOT be evaluated.**

DEFINITION	BASIC WORKS TYPES	EXAMPLES
<p>Construction Works primarily concerned with materials such as steel, concrete, earth &amp; rock &amp; their application in the development, extension, installation, maintenance, removal, renovation, alteration, or dismantling of building and engineering infrastructure</p>	<p>Water, sewerage, roads, railways, harbours and transport, urban development &amp; municipal services</p>	<ul style="list-style-type: none"> <li>- Structures such as cooling tower, bridge, culvert, dam, grandstand, road, railway, reservoir, runway, swimming pool, silo or tunnel.</li> <li>- The results of operations such as dredging, earthworks and geotechnical processes.</li> <li>- Township services, water treatment and supply, sewerage works, sanitation, soil conservation works, irrigation works, stormwater and drainage works, coastal works, ports, harbours, airports and pipelines</li> </ul>

**NOTE: ZERO (0) POINTS SHALL BE AWARDED FOR PROJECTS THAT DO NOT COMPLY WITH DEFINITION OF SIMILAR EXPERIENCE AS DESCRIBED ABOVE.**

**T2.14 TENDERER'S EXPERIENCE SCHEDULE (CONTINUED) (30 points)**

The scoring will be as follows:

CATEGORY	BASIS OF POINTS CALCULATION	MAX POINTS PER CATEGORY
No Response	0% X 30 Points	0
One (1) similar Projects above R 30 Million successfully completed within 5 years	20% x 30 Points	6
Two (2) similar Projects above R 30 Million successfully completed within 5 years	40% X 30 Points	12
Three (3) similar Projects above R 30 Million successfully completed within 5 years	60% X 30 Points	18
Four (4) similar Projects above R 30 Million successfully completed within 5 years	80% X 30 Points	24
Five (5) Similar Projects above R 30 Million successfully completed within 5 years	100% X 30 Points	30

**Note:** in the case of a Joint Venture (JV) at least one member of the JV must submit projects experience within the stipulated range.

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

NAME : \_\_\_\_\_  
(Block Capitals)

SIGNATURE : \_\_\_\_\_ DATE: \_\_\_\_\_  
(of person authorised to sign on behalf of the Tenderer)

**T2.14 TENDERER'S EXPERIENCE SCHEDULE (CONTINUED) (30 points)**

**Schedule A: Similar Experience**

All respondents **MUST** complete the following tables

ITEM	EMPLOYER, CONTACT PERSON AND TELEPHONE NUMBER	DESCRIPTION OF THE PROJECT	DETAILED DESCRIPTION AND DISCIPLINES INVOLVED	VALUE OF PROJECT	PROJECT DURATION	YEAR COMPLETED	PRINCIPAL AGENT, CONTACT PERSON AND TELEPHONE NUMBER
E.g.	Employer Details: Ms A Some 011 xxx xxxx	Refurbishment to XXXX Offices	Refurbishment to high rise offices including site works, access, buildings and internal fit-out.	R45m	12 Months	2015	ABC Consulting, Ms A Some 011 xxx xxxx
<b>Projects greater than R 30 000 000.00</b>							
1							
2							
3							
4							
5							

**T2.15 ORGANOGRAM AND EXPERIENCE OF KEY PERSONNEL (30 Points)**

The experience of assigned staff member/s in relation to the scope of work will be evaluated from the following points of view:

- 1) Submission of an Organogram indicating the following levels of resources as a minimum: Contracts Manager, Quantity Surveyor, Site Agent, Senior Foreman and Health & Safety Officer. The years of experience in their current position is to be indicated in the Organogram.
- 2) A certified copy of the relevant qualification is to be submitted, failing which, zero points will be awarded for qualifications.
- 3) The skills and experience of the assigned staff are of similar nature in the operational area which the staff have been resourced.
- 4) Failure to submit CV's or incomplete CV's of the personnel listed in the scoring below will be scored zero.

CVs of the construction team of **not more than 2 pages each** should be attached to this schedule. Each CV should be structured as per the template contained within the Tender document located on Pages 42 & 43.

**NOTE: TENDERERS ARE ADVISED THAT AT MINIMUM, ALL RESOURCES NEED TO COMPLY WITH ANY ONE OF THE CATEGORIES IN ORDER TO SCORE THE MAXIMUM POINTS IN ANY PARTICULAR CATEGORY.**

The scoring will be as follows:

CATEGORY NO	DESCRIPTION	BASIS OF POINTS CALCULATION	MAX POINTS PER CATEGORY
1	No Response	0% X 20 Points = 0	0
		0% X 10 Points = 0	
2	Tenderer has submitted 1 resource that have a minimum of 5 years relevant experience	20% X 20 Points = 4	6
	Tenderer has submitted 1 resource that have a NQF 6 or above qualification.	20% X 10 Points = 2	
3	Tenderer has submitted 2 resources that have a minimum of 5 years relevant experience	40% X 20 Points = 8	12
	Tenderer has submitted 2 resources that have a NQF 6 or above qualification.	40% X 10 Points = 4	
4	Tenderer has submitted 3 resources that have a minimum of 5 years relevant experience	60% X 20 Points = 12	18
	Tenderer has submitted 3 resources that have a NQF 6 or above qualification.	60% X 10 Points = 6	
5	Tenderer has submitted 4 resources that have a minimum of 5 years relevant experience	80% X 20 Points = 16	24
	Tenderer has submitted 4 resources that have a NQF 6 or above qualification.	80% X 10 Points = 8	
6	Tenderer has submitted 5 resources that have a minimum of 5 years relevant experience	100% X 20 Points = 20	30
	Tenderer has submitted 5 resources that have a NQF 6 or above qualification.	100% X 10 Points = 10	

**NOTE:**

- Each Resource is required to have Experience greater than 5 years and the relevant qualification for each resource is included, failing which, the tenderers resource will be considered non-responsive and will not be scored.

**T2.15 ORGANOGRAM AND EXPERIENCE OF KEY PERSONNEL (CONTINUED) (30 Points)**

Along with the submission of the Organogram specific to this Tender, Tenderers are required to submit the Key Personnel Schedule as indicated below.

KEY PERSONNEL	NAME	AGE	YEARS OF EXPERIENCE	PERIOD WITH COMPANY	HIGHEST VALUE CONTRACT HANDLED
CONTRACTS MANAGER					
QUANTITY SURVEYOR					
SITE AGENT					
SENIOR FOREMAN					
HEALTH & SAFETY OFFICER					

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

NAME : \_\_\_\_\_

(Block Capitals)

SIGNATURE : \_\_\_\_\_ DATE: \_\_\_\_\_

(of person authorised to sign on behalf of the Tenderer)

The Tenderer shall complete the following table to be submitted with the Tender

**T2.15 ORGANOGRAM AND EXPERIENCE OF KEY PERSONNEL (CONTINUED) (30 Points)**

<b>CURRICULUM VITAE TEMPLATE OF KEY PERSONNEL</b>									
<b>DESIGNATION.....</b>									
<b>Name:</b>					<b>Date of birth:</b>				
<b>Profession:</b>					<b>Nationality:</b>				
<b>Formal Qualifications:</b>									
<b>Qualification</b>		<b>From: Name of Institution</b>			<b>Year Obtained</b>				
<b>1</b>									
<b>2</b>									
<b>3</b>									
<b>4</b>									
<b>5</b>									
<b>Professional Registrations/ Designation:</b>									
	<b>Professional Registrations/ Designation</b>			<b>Professional Body/Council</b>			<b>Registration Number</b>		
<b>1</b>									
<b>2</b>									
<b>3</b>									
<b>4</b>									
<b>5</b>									
<b>Name of Current Employer (firm):</b>					<b>Full Time:</b>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input type="checkbox"/>
<b>Current Position:</b>					<b>Years of Experience:</b>				
<b>Name of Previous Employer (firm):</b>					<b>Full Time:</b>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input type="checkbox"/>
<b>Position held:</b>					<b>Years of Experience:</b>				
<b>Name of Previous Employer (firm):</b>					<b>Full Time:</b>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input type="checkbox"/>
<b>Position held:</b>					<b>Years of Experience:</b>				
<b>Name of Previous Employer (firm):</b>					<b>Full Time:</b>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input type="checkbox"/>
<b>Position held:</b>					<b>Years of Experience:</b>				



**T2.16 CONSTRUCTION METHODOLOGY (20 Points)**

The Tenderer is discouraged from producing a generic method statement. The Method Statement must be concise and clearly demonstrate how this project will be implemented as per the contents and details in the table below.

CONTENTS		DETAILS
1	Introduction	Description of the project, location and the Client
2	Scope	Demonstrate understanding of the scope of work
3	Working Access	Site access, working hours, and details of site establishment area
4	Plant & Equipment	List of Plant and equipment to be used and maintenance plan during construction
5	Materials	Ordering, delivery and storage of materials
6	Method of Work	Describe the sequence of work, activities and programme
7	Risk management	Risk and controls in place, programme and time management
8	Communication	Organogram, communication plan indicating roles and responsibilities
9	Training	Details of training offered to local labour and subcontractors
10	Quality Control	Supervision, quality and document control plan
11	Health and safety	Health and safety plan, safe working, dust control, protective wears, medical reports, etc
12	Project Close-out	Remedial works, COCs, As-built drawings, manuals and guarantees, etc

The scoring will be as follows:

CATEGORY	BASIS OF POINTS CALCULATION	MAX POINTS PER CATEGORY
No information provided; OR irrelevant information provided	0% X 20 Points	0
The Method statement is generic and include at least any four (4) of the requirements indicated in the table above.	20% X 20 Points	4
The Method statement is generic and include at least any six (6) of the requirements indicated in the table above.	40% X 20 Points	8
The method statement is not generic and includes at least eight (8) of the requirements indicated in the table above.	60% X 20 Points	12
The method statement is not generic and includes all of the requirements indicated in the table above but is not adequately detailed.	80% X 20 Points	16
The method statement is not generic and includes all of the requirements indicated in the table above and is satisfactory.	100% X 20 Points	20

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

NAME : .....

(Block Capitals)

SIGNATURE : ..... DATE: .....

(of person authorised to sign on behalf of the Tenderer)

The tenderer shall complete the following table to be submitted with the Tender

**T2.17 QUALITY ASSURANCE (10 Points)**

The quality control process and policies of the tendering entity will be evaluated.

Tenderers are required to submit a quality control policy incorporating all processes, procedures and supporting documents required to assure delivery of the project.

CATEGORY	BASIS OF POINTS CALCULATION	MAX POINTS PER CATEGORY
No Response	0% X 10 Points	0
The submission covers the basic requirements for each activity	20% X 10 Points	2
The tenderer has its own inhouse quality control policy	40% X 10 Points	4
The tenderer has its own inhouse quality control policy and a project specific quality control methodology is submitted	60% X 10 Points	6
The tenderer is ISO 9001 accredited or in the case of a Joint Venture, at least one member is ISO 9001 accredited. (ISO Certificate provided)	80% X 10 Points	8
The tenderer is ISO 9001 accredited and a project specific quality control methodology is submitted. In the case of a Joint Venture, all members are ISO 9001 accredited. (ISO Certificates provided)	100% X 10 Points	10

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

NAME : .....

(Block Capitals)

SIGNATURE : ..... DATE: .....

*(of person authorised to sign on behalf of the Tenderer)*

*The tenderer shall complete the following table to be submitted with the Tender*

**T2.18 PRELIMINARY PROGRAMME (10 Points)**

The Tenderer shall submit a detailed programme clearly decomposing the construction activities by indicating the hierarchy of activities.

The activities shall indicate the duration and the dependencies between the tasks.

In addition to construction activities, the programme is to allow and include for the following:

- Annual builders' holiday
- 15 working days for project delays such as but not limited to inclement and exceptionally inclement weather and an extension of time shall only be considered for inclement and exceptionally inclement weather beyond this Fifteen (15) working day period.

The overall project duration is **8 Months** including the annual builder's break.

For the purpose of evaluating this Tender, the tenderer is to assume the start date to be **01 June 2021**.

The successful tenderer will be requested to revise the programme to accommodate the shift in the start date.

**NOTE: Should the tender programme exceed the project duration of 8 months (8 months including the annual builders' break, and provision for project delays), the tenderer shall be scored zero points for this section.**

CATEGORY	BASIS OF POINTS CALCULATION	MAX POINTS PER CATEGORY
No Response or exceed project duration	0% X 10 Points	0
The programme/ implementation plan only shows main activities with no dependencies between them and the project duration is within the project period.	20% X 10 Points	2
The programme/ implementation plan <b>DOES NOT</b> clearly show all activities, the dependencies between them are <b>NOT</b> in a logical sequence and project duration is within the project period.	40% X 10 Points	4
The programme/ implementation plan clearly shows all activities, the dependencies between them are in a logical sequence and project duration is within the project period.	60% X 10 Points	6
The programme/ implementation plan clearly shows all activities, the dependencies between them are in a logical sequence and project duration is within the project period.  In addition, the durations of each activity are clear indicated and is appropriate and realistic.	80% X 10 Points	8
The programme/ implementation plan clearly shows all activities, the dependencies between them are in a logical sequence and project duration is within the project period.  In addition, the durations of each activity are clear indicated and is appropriate and realistic and the programme clearly indicates the project's critical path.	100% X 10 Points	10

**T2.19 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017, SUBSTANTIATED BY B-BBEE VERIFICATION CERTIFICATE – SBD 6.1**

**1. TENDER DECLARATION**

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

**2. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED**

B-BBEE Status Level of Contribution: \_\_\_\_\_ = \_\_\_\_\_ (maximum of 10 or 20 points) must be in accordance with the table reflected in F3.11 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the CCA).

**3. DECLARATION WITH REGARD TO COMPANY/ FIRM**

3.1 Name of company/ firm \_\_\_\_\_

3.2 VAT registration number \_\_\_\_\_

3.3 Company registration number \_\_\_\_\_

**3.4 TYPE OF COMPANY/ FIRM**

Partnership/ Joint Venture / Consortium  One person business/ sole propriety

Close corporation  Company  (Pty) Limited

[TICK APPLICABLE BOX]

**3.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**3.6 COMPANY CLASSIFICATION [TICK APPLICABLE BOX]**

Manufacturer  Supplier  Professional service provider

Other service providers, e.g. transporter, etc. Please state below:

\_\_\_\_\_

**3.7 Total number of years the company/ firm has been in business?**

\_\_\_\_\_

**T2.19 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017, SUBSTANTIATED BY B-BBEE VERIFICATION CERTIFICATE – SBD 6.1 (CONTINUED)**

**3. DECLARATION WITH REGARD TO COMPANY/ FIRM (CONTINUED)**

3.8 I/ we, the undersigned, who is/ are duly authorised to do so on behalf of the company/ firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 2 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I/ we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 2 of this form.
- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 2, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct; and
- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the 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) restrict the Tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, from obtaining business from any organ of state/ tertiary institution for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and forward the matter for criminal prosecution

**WITNESSES:**

1. \_\_\_\_\_

2. \_\_\_\_\_

**SIGNATURE(S) OF TENDERER**

\_\_\_\_\_

**DATE:** \_\_\_\_\_



**T2.21 LIST OF PROPOSED SPECIALIST SUBCONTRACTORS**

Tenderers are required to provide the details of all contractors intended to be used for all specialist work.

Should the contractor fail to complete this schedule it will render this bid non-responsive.

PROPOSED PILING SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

PROPOSED ELECTRICAL INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

PROPOSED PLUMBING SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

**T2.21 LIST PROPOSED SPECIALIST SUBCONTRACTORS (CONTINUED)**

PROPOSED VENTILATION INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

PROPOSED FIRE WATER INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

PROPOSED LIFT INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

**T2.21 LIST PROPOSED SPECIALIST SUBCONTRACTORS (CONTINUED)**

PROPOSED ALUMINIUM DOORS AND WINDOWS INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

PROPOSED LANDSCAPING INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

PROPOSED ROADWORKS INSTALLATION SUB-CONTRACTOR/S:			
NAME OF FIRM:			
ADDRESS			
TELEPHONE NUMBER(S)			
SCHEDULE OF EXPERIENCE			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			
Client/Consultant(s)	Project	Value of work	Year completed
Name/Telephone No(s)			

SIGNATURE: .....  
 (of person authorized to sign on behalf of the Tenderer)

DATE: .....

**T2.22 PARTICULARS OF REGISTERED ELECTRICAL SUBCONTRACTOR**

PROPOSED ELECTRICAL SUB-CONTRACTOR:			
NAME OF FIRM:			
CIDB GRADING:			
ADDRESS:			
TELEPHONE NUMBER(S):			
NAME OF REGISTERED TRADESMAN:			
I.D. NUMBER:			
REGISTRATION NUMBER:			
<b>SCHEDULE OF EXPERIENCE</b>			
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	

**T2.23 PARTICULARS OF REGISTERED ELECTRONIC SUBCONTRACTOR**

PROPOSED ELECTRONIC SUB-CONTRACTOR:			
NAME OF FIRM:			
CIDB GRADING:			
ADDRESS:			
TELEPHONE NUMBER(S):			
NAME OF REGISTERED TRADESMAN:			
I.D. NUMBER:			
REGISTRATION NUMBER:			
<b>SCHEDULE OF EXPERIENCE</b>			
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	

**T2.24 PARTICULARS OF REGISTERED PLUMBING SUBCONTRACTOR**

PROPOSED PLUMBING SUB-CONTRACTOR:			
NAME OF FIRM:			
CIDB GRADING:			
ADDRESS:			
TELEPHONE NUMBER(S):			
NAME OF REGISTERED TRADESMAN:			
I.D. NUMBER:			
REGISTRATION NUMBER:			
<b>SCHEDULE OF EXPERIENCE</b>			
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	

**T2.25 PARTICULARS OF REGISTERED AIRCONDITIONING (HVAC) SUBCONTRACTOR**

PROPOSED AIR-CONDITIONING (HVAC) SUB-CONTRACTOR:			
NAME OF FIRM:			
CIDB GRADING:			
ADDRESS:			
TELEPHONE NUMBER(S):			
NAME OF REGISTERED TRADESMAN:			
I.D. NUMBER:			
REGISTRATION NUMBER:			
<b>SCHEDULE OF EXPERIENCE</b>			
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	

**T2.26 PARTICULARS OF REGISTERED LIFT SUBCONTRACTOR**

PROPOSED LIFT SUB-CONTRACTOR:			
NAME OF FIRM:			
CIDB GRADING:			
ADDRESS:			
TELEPHONE NUMBER(S):			
NAME OF REGISTERED TRADESMAN:			
I.D. NUMBER:			
REGISTRATION NUMBER:			
<b>SCHEDULE OF EXPERIENCE</b>			
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	
CLIENT/CONSULTANT(S)	PROJECT	VALUE OF WORK	YEAR COMPLETED
NAME/TELEPHONE NO(S):		EMAIL:	

## **T2.27 TECHNICAL DATA: ELECTRICAL INSTALLATION**

Tenderers are required to complete all forms and submit all technical data as set out in **ANNEXURE D (ELECTRICAL SPECIFICATIONS)** of the document, where applicable, failing which this will render the tenderers bid non-responsive.

***[ALL Forms and Technical Data are to be inserted here]***

## **T2.28 TECHNICAL DATA: ELECTRONIC INSTALLATION**

Tenderers are required to complete all forms and submit all technical data as set out in **ANNEXURE E (ELECTRONIC SPECIFICATIONS)** of the document, where applicable, failing which this will render the tenderers bid non-responsive.

***[All Forms and Technical Data are to be inserted here]***

## **T2.29 TECHNICAL DATA: HVAC INSTALLATION**

Tenderers are required to complete all forms and submit all technical data as set out in **ANNEXURE C (MECHANICAL SPECIFICATIONS)** of the document, failing which this will render the tenderers bid non-responsive.

***[All Forms and Technical Data are to be inserted here]***





**T2.32 DECLARATION OF CORRECTNESS OF TENDER**

I, \_\_\_\_\_ (Full Name) the Authorised Signatory of

\_\_\_\_\_ (Tenderer) hereby declare that the information furnished in

the tender is entirely true and correct; and the tender is submitted on condition that the Tenderer; its facilities, etc., shall at any stage be subject to inspection.

**SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
(of person authorised to sign on behalf of the Tenderer)

## THE CONTRACT

**C1.1 FORM OF OFFER AND ACCEPTANCE**

**A. OFFER**

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

**TENDER NO.: UMALUSI (21-22) T0003: RENOVATIONS AND ADDITIONS OF AN EXISTING BUILDING FOR OFFICE SPACE LOCATED AT 41 GENERAL VAN RYNEVELD STREET, BRUMMERIA, PRETORIA, 0020**

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 authorised, signing this part of this Form of Offer and Acceptance the Tenderer offers to perform all of the obligations and liabilities of the Service Provider 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 VAT IS:**

(in words) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(in figures) R \_\_\_\_\_

The Tenderer confirms that he has read the Contract referred to in C1.2 Contract Data.

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

Signature(s) \_\_\_\_\_

Name(s) \_\_\_\_\_

Capacity \_\_\_\_\_

**For the Tenderer:**  
*(Insert name and address of organisation)*

\_\_\_\_\_  
\_\_\_\_\_

Name & Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

**C1.1 FORM OF OFFER AND ACCEPTANCE (CONTINUED)**

**B: ACCEPTANCE**

By signing this part of the 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:

- C.1 Agreement, and Contract Data, (which include this Agreement)
- C.2 Pricing Data, including the Bill of Quantities
- C.3 Scope of Work
- C.4 Site Information

And the schedules, forms, 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 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, which must be duly signed by the authorised representatives of both parties.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Service Provider) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

**Signature:** *(of person authorised to sign the acceptance)*

\_\_\_\_\_

**Name:** *(of signatory in capitals)* \_\_\_\_\_

**Capacity:** *(of Signatory)* \_\_\_\_\_

**Name of Employer:** *(organisation)* \_\_\_\_\_

**Address:** \_\_\_\_\_

\_\_\_\_\_

**Telephone number:** \_\_\_\_\_ **Fax number:** \_\_\_\_\_

**AS WITNESS**

**Signature:** \_\_\_\_\_ **Name:** *(in capitals)* \_\_\_\_\_

**Date:** \_\_\_\_\_

\_\_\_\_\_

**C1.1 FORM OF OFFER AND ACCEPTANCE (CONTINUED)**

**C: SCHEDULE OF DEVIATIONS**

The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Tender Data and the Conditions of Tender.

A Tenderer's covering letter will not necessarily be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matters arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.

Any change or addition to the tender documents arising from the above agreements and recorded here shall also be incorporated into the final draft of the Contract.

**1. Subject: Subcontracting**

**Details:** The Contractor shall not sub-contract more than 25% of the Contract Price to another enterprise that does not have equal or higher (better) B-BBEE status level, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.

**2. Subject:** \_\_\_\_\_

**Details:** \_\_\_\_\_

\_\_\_\_\_

**3. Subject:** \_\_\_\_\_

**Details:** \_\_\_\_\_

\_\_\_\_\_

**4. Subject:** \_\_\_\_\_

**Details:** \_\_\_\_\_

\_\_\_\_\_

**5. Subject:** \_\_\_\_\_

**Details:** \_\_\_\_\_

\_\_\_\_\_

**6. Subject:** \_\_\_\_\_

**Details:** \_\_\_\_\_

\_\_\_\_\_

**7. Subject:** \_\_\_\_\_

**Details:** \_\_\_\_\_

\_\_\_\_\_

By the duly authorised representatives signing this Schedule of Deviations, 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 change to the terms of the offer agreed by the Tenderer and the Employer this process of offer and acceptance.

**C1.1 FORM OF OFFER AND ACCEPTANCE (CONTINUED)**

**C: SCHEDULE OF DEVIATIONS**

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.

**FOR THE TENDERER:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Capacity: \_\_\_\_\_

Tenderer: *(Name and address of organisation)*

\_\_\_\_\_

**Witness:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**FOR THE EMPLOYER**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Capacity: \_\_\_\_\_

**Witness:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## **C1.2 CONTRACT DATA (INCLUDING SPECIAL CONDITIONS OF CONTRACT)**

### **PART 1: C1.2.1 GENERAL CONDITIONS OF CONTRACT**

#### **1. FORM OF CONTRACT**

The “JBCC (JOINT BUILDING CONTRACTS COMMITTEE) PRINCIPAL BUILDING AGREEMENT – EDITION 6.2 – MAY 2018”, as amended in the SPECIAL CONDITIONS OF CONTRACT, shall be applicable to this contract.

#### **2. PRELIMINARIES**

The JBCC (JOINT BUILDING CONTRACTS COMMITTEE) GENERAL PRELIMINARIES – EDITION 6.2 – MAY 2018”, as amended in the SPECIAL CONDITIONS OF CONTRACT, shall be applicable to this contract.

#### **3. TRADE PREAMBLES**

The “General Preambles for Trades (2017 Edition)”, as recommended by The Association of South African Quantity Surveyors shall apply to this contract and is obtainable from The Association of South African Quantity Surveyors or Building Industries Federation South Africa (BIFSA).

#### **4. PRINCIPAL BUILDING AGREEMENT CONTRACT DATA**

The details are stated in the schedule named “PRINCIPAL BUILDING AGREEMENT CONTRACT DATA”.

## **PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT**

### **1. GENERAL**

These special Conditions of Contract generally contain clauses that are either deemed to be additions, elaborations or variations to the General Conditions of Contract. Accordingly, these Special Conditions of Contract must be read in conjunction with the General Conditions of Contract and it shall be deemed that the amended meanings and intentions of the clauses shall apply, if applicable. In addition, it shall be deemed that any reference to Contractor shall mean Principal Building Contractor, as defined in the JBCC Principal Building Agreement.

### **2. SCOPE OF THE CONTRACT**

The scope of the contract for each Tender option/s, if applicable, is described in the Specifications, Drawings, Bills of Quantities, Contract Conditions and the Contract Variables, as applicable.

### **3. CONFIDENTIALITY**

It shall be deemed that the details of the contract documents shall be treated as private and confidential and their general content shall not be disclosed or discussed with third parties without the prior approval of the Principal Agent in writing.

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

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

### **4. PROGRAMME**

The Contractual Commencement and Completion dates and any other relevant dates for this contract are stated in "JBCC PRINCIPAL BUILDING AGREEMENT: CONTRACT DATA".

Time, cost and quality are to be considered the essence of this Contract. Accordingly, it shall be deemed that the contract programme prepared and issued in Microsoft Project Programming Software, detailing each activity and duration is submitted by the Contractor, in accordance with the tender requirements, and as amended in conjunction with the Principal Agent and/ or other Agents, shall be the basis of monitoring progress on the project. The programme is to include construction activities, long lead procurement schedules, information required schedules, tenant information schedules and sub-contractor appointment schedules.

The Process to be adopted in finalising the program shall be as follows:

- The Construction Project Manager and/ or Principal Agent shall evaluate the programme to ensure the completeness of the work programmed, accuracy of the durations, relevance and completeness of the logic, dates on which information are requested, times allowed for long lead items and subcontractor appointment dates.
- Any shortcomings and/ or further requirements shall be clearly indicated in a programme assessment report and issued to the contractor for correction and additions.
- The contractor shall affect amendments to the program based on above and the final contract programme shall be signed-off by the Project Team and shall be deemed to be the baseline/ target contract programme. This programme, and the progress therein, (and relevant authorised revisions), will form the basis of adjudication of all clauses relating to time as specified in the contract document. The submission of the programme and the dates therein shall not excuse or relieve the principal building contractor or its parties from completing the project within the timeframe specified in the contract documents.
- The contractor shall update the contract/ project programme at any time when the works been developed do not, or may not correspond to that originally programmed, or as formally instructed by the Project Manager and/ or Principal Agent. It shall be deemed that the principal building contractor has, when updating or developing the programme, consulted with the relevant project team members as well as the relevant nominated and selected sub-contractors regarding procurement period, specifications and sequencing required.

## PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)

### 4. PROGRAMME (CONTINUED)

The process to be adopted for **PROGRESS REVIEW** shall be as follows:

- The Project Manager and/ or Principal Agent, and the Contractor shall conduct a progress review on a pre-determined weekly interval. The progress for each activity of the works shall be evaluated, agreed upon and recorded in a report.
- The progress review shall incorporate procurement of long lead items, information release, fit - out information and sub-contractor appointments.
- The following information shall be recorded for each activity:
  - Actual start dates of the planned activities (if started),
  - Actual finish dates of the planned activity (if completed),
  - Estimated remaining durations of the planned activities that are still in progress,
  - Suspend and resume dates if a planned activity is suspended, and
  - Log text of delays incurred to planned activities.
- The result after the progress update must be closely evaluated and the relevance and accuracy of the results must be checked.

#### NOTE:

- The Contractor is not permitted to make any changes to the Contract Programme without agreement by the Project Manager and/ or Principal Agent.
- Extension of time claims due to inclement weather, late information, or any other reason shall far as practical, be evaluated the moment it is submitted and the effect on the contractual end date determined.
- A decision shall as far as practical be made immediately on the number of days to be granted to the contractor, if any.
- Claims that have no effect on the critical path shall be so recorded.
- A summary of the extension of time claims submitted, for both inclement weather and contractual claims must be included in the joint progress report.

### 5. DAMAGE TO THE WORK

Care shall be taken not to cause any damage to any part of the existing or new work or any adjoining property. The contractor will be held responsible for damage caused to the works by his negligence and shall be liable for all costs incurred in making good any such damage to the satisfaction of the Principal Agent.

### 6. COMMUNICATION, MEDIA RELEASES, ETC.

The contractor shall not in any way communicate with the press, or any representative of the written or electronic media, on a question affecting this contract unless prior approval in writing is received from the Employer and/ or the Principal Agent.

All rights of publication of articles in the media, together with any advertising relating to, or in any way concerned with this project shall vest in the Employer.

The contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media.

## PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)

### 7. COPYRIGHT

No part of this document and any document forming part of the contract documents may be copied, photographed or repeated in any manner or by any process without the written consent of the **author**. Copyright is reserved on all designs, specifications, patents and patentable designs, systems and processes contained in documents pertaining to this contract. The person, firm, body, supplier, contractor, sub-contractor and any other contracting party is to be responsible jointly and severally, in their personal and corporate capacities for any contravention of this requirement.

### 8. ESCALATION

This contract shall either **be subjected or not subjected to any form of Contract Price Adjustment Formulae such as the Haylett Formulae or similar**, which shall be dependent on the tender offer accepted. In this regard, it is deemed that for the fixed price option, the contract amount includes for any potential increases (except any variation in the rate of value added tax) in the cost of labour, materials, transport, etc.

The option applicable to this contract is as indicated below:

#### Option 1 – Subject to Escalation Price Contract



#### Option 2 – Fixed Price Contract



**KEY:** ✓ - Tender Option Applicable  
X - Not Required for this Tender

### 9. WORKMANSHIP AND QUALITY CONTROL

The onus to produce work that conforms in quality and accuracy of detail, to the requirements of the specifications, rests with the contractor, and the contractor shall, at his own expense, institute a quality control system and provide other technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the works at all times.

The cost of supervision and process control, including testing carried out by the contractor shall be deemed to be included in the amount quoted for the works.

The contractor's attention is drawn to the normal standards regarding the minimum frequency of testing required for materials. The contractor shall, at his own discretion increase this frequency where necessary to ensure adequate control.

On completion and submission of every part of the work to the **PRINCIPAL AGENT** for examination, the contractor shall furnish the **PRINCIPAL AGENT** with the results of the relevant tests, measurements and levels to indicate compliance with the specifications.

Notwithstanding the approval of these above-mentioned tests by the **PRINCIPAL AGENT**, the contractor shall remain solely responsible for the work as defined in this contract document, up to the end of the defect's liability period.

### 10. REPORTING OF ACCIDENTS/ INCIDENTS

In addition, to any statutory obligations the contractor shall, as soon as practical, report to the Principal Agent every occurrence on the works or the site causing damage to the property or injury or death to any individuals.

If requested, the contractor shall submit a report in writing to the Principal Agent within 12 hours of such request, setting out the full details of the occurrence.

The Principal Agent shall have the right to make any enquiries either on the site or elsewhere as to the cause and results of any such occurrence and the contractor shall render all reasonable assistance and make available the necessary facilities, equipment, personnel, etc., for carrying out such enquiries.

## PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)

### 11. IDENTIFICATION OF PERSONNEL

All personnel that are utilised on the project by the contractor and its sub-contractors, are at all times whilst on site, be clothed with clothing that clearly identifies each staff member together with an identification document which includes, but not limited to the following:

- A photograph of the personnel concerned;
- The identification numbers of the personnel concerned; and,
- The name of company concerned

In addition, to that stated above, the contractor shall adhere to the premises security rules and regulations. No personnel will be permitted to work on the project until this condition is adhered to.

### 12. INTERVENTION AT MANUFACTURE AND/ OR SUPPLIER AND/ OR SUB-CONTRACT LEVEL

The employer and its agents reserve the right to discuss and liaise on any issue pertaining to this contract with the contractor's service providers i.e. Manufacturers and/ or suppliers and/ or sub-contractors concerned (Nominated and Selected and Domestic). This right shall not create privity of the contract between the employer and/ or its agents and the said manufacturer and/ or supplier and/ or sub-contractors, (Nominated and Selected and Domestic).

### 13. ALTERATIONS IN THE QUANTITY AND VALUE OF WORK

The employer and/ or its Agents shall be permitted to either increase or decrease the quantity and value of work contracted for. In this regard, the contractor including its service providers shall not be entitled to claim for any additional expense incurred, or for any change in the rates for work done and/ or any materials and services supplied. It shall be deemed that all costs associated with this item is included in the Contract Sum.

### 14. CHANGES IN THE SCOPE OF WORK

The contractor acknowledges that whilst drawings have been prepared for this project, the scope of work and value of the contract may be substantially altered and that no claims for loss and expense shall be due by the employer for implementing any changes that may become necessary. It shall be deemed that the contract amount includes for all costs that may arise due to compliance with this clause.

### 15. MARKET RELATED WAGE RATES

The wage rates payable for labour in any category is deemed to be not less than the lessee of:

- Statutory wage rates in any labour category in the project locality; and
- The SAFCEC recommended minimum rates applicable at any time during the duration of the contract.

The Contractor shall demonstrate compliance with this requirement on a monthly basis.

### 16. TREASURES, RELICS, ETC.

Any relics, treasure, articles of value or of potential historical or archaeological interest found on the site must be brought to the attention of the **PRINCIPAL AGENT**. All work at the specific area of the discovery shall stop for a reasonable time period until such time that the **PRINCIPAL AGENT** instructs the contractor to continue with the work.

Any relics, treasure, articles of value or of potential historical or archaeological interest found on the site shall remain the property of the Employer and shall be handed over to the **PRINCIPAL AGENT** who shall be the sole arbitrator of what is an article of value.

### 17. PRICED BILLS OF QUANTITIES

The Contractor shall submit the Priced Bills of Quantities at the date of the tender closing.

## **PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)**

### **18. LUMP SUM PRICE BREAKDOWN**

Where items in the Tender document are measured as lump sums, the contractor shall, upon request submit a detailed Priced Bills of Quantities for each lump sum item **WITHIN TEN (10) DAYS OF NOTICE OF AWARD OF CONTRACT**, which shall be prepared in accordance with the latest edition of the standard system of Measuring Building Work including any subsequent amendments thereto, which will thereafter form part of the contract and shall be used for the purposes of preparing valuation certificates, determining the value of variation orders, preparation of final account, etc.

### **19. PRICES AND NET MEASUREMENTS**

Prices throughout these bills of quantities shall be deemed to include for all obligations arising out of the contract and unless otherwise specified, be held to include for making, conveying and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works and return of packing's.

Prices for all items contained in these bills of quantities and any additional authorised variations, shall be deemed to exclude all amounts due in terms of the Value-Added Taxation Legislation. A provision for the addition of VAT shall be made on the summary page of the contract document and final statement of accounts, as applicable.

### **20. AMENDMENTS TO SCOPE OF WORK PRIOR TO TENDER AWARD**

The Contractor is advised that certain portions of the scope of work may be adjusted/ omitted subject to the Client's approval of the adjustments/ omissions and can only be affected prior to the issuance of the Letter of Intent to Award. Any cost associated with the imminent scope change must be included in the overall price, as claims for additional costs/ loss and expense will not be entertained.

### **21. WARRANTIES**

The contractor undertakes to perform the work in accordance with the terms and the conditions of the contract, in a workmanlike manner, which shall include but not be limited to, complying with the manufacturers/ suppliers' specifications, if applicable, in respect of goods, methods, or materials used in the performance of the work.

The contractor further warrants that they shall use only new merchantable materials, fit for their intended purpose, as well as supervision, labour and equipment which are fit for the purpose for which they are intended.

### **22. OVERLOADING**

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

### **23. BLACK ECONOMIC EMPOWERMENT**

The contractor shall comply with the Employers Black Economic Empowerment Policies.

### **24. ADVERTISING RIGHTS**

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

### **25. MEDIA RELEASES**

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

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

## **PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)**

### **26. STANDARD OF WORKMANSHIP AND MATERIALS**

In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable SANS 2001 Standards for Construction Works shall apply, or where such does not exist, then the latest applicable British Standard Specification (BS) shall apply.

Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9000 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

### **27. EXISTING PREMISES OCCUPIED**

Where circumstances arise that the works programmed to be executed interferes with the general routine of the occupants, the contractor is to advise the Principal Agent forty-eight (48) hours before the commencement of said works.

Notwithstanding anything to the contrary in the agreement, the contractor acknowledges that access to the works and sections after the date of practical completion is subject to the prior consent of the Principal Agent, and in turn subject to the consent of the occupants or management of that part of works.

### **28. FALSE DECLARATION**

All information provided by the contractor is accepted in good faith as being true and accurate. Any false declaration or intentional omission of relevant facts shall be reported to the Employer, which on receipt of such report may elect to exercise its (the employer's) rights in terms of common law and/ or the contract, as applicable.

### **29. ACCESS FOR PERSONNEL**

No unauthorised persons are allowed on site unless authorised by the Principal Agent in writing. No persons are allowed access to any portion of the existing buildings, if applicable, other than the agreed entrance and exit routes, unless authorised by the Principal Agent in writing.

The contractor shall provide access permits for staff and vehicles, uniforms, PPE, identification cards for all personnel accessing the area of the works.

### **30. SUPERVISION BY EMPLOYER'S AGENTS**

Supervision by the Principal Agent and other agents is intended as a means of checking the interpretation of work done and providing clarification and further information where required during the progress of the work. Supervision shall not in any way relieve the contractor of his responsibility for ensuring that the work is carried out satisfactorily in all aspects, in good time and in accordance with the contract.

Although the Principal Agent and other agents will make spot checks from time to time on dimensions and levels as the work proceeds, checking of the setting out, dimensions, levels and positioning of all items is the contractor's responsibility and should any errors occur during the course of or be found after completion of the works, the cost for remedying same will be for the contractor's account.

### **31. PARTNERING**

The Employer, its agents and the contractor shall act as stated in the contract and in the spirit of mutual trust and co-operation. In this regard, it is a specific requirement that all the contractor's personnel provide reasonable assistance that may be required by the Employer and/ or its agents in order for them to assist in bringing the works to completion with due skill, diligence, regularity and expedition. In turn, the Employer and its agents shall also provide assistance to the contractor to execute the works with due skill, diligence, regularity and expedition.

In turn, the Employer and its agents shall also provide assistance to the contractor to execute the works with due skill, diligence, regularity and expedition.

### **32. TESTING AND COMMISSIONING**

The contractor and / or sub-contractors shall commission and test the entire installation at his own expense, including provision of electrical power supplies, water supplies, fuel and all test equipment. Such testing is to be done in the presence of the principal agent, who shall have been notified of the dates and approximate duration of the tests, sufficiently in advance so as to allow attendance at such tests.

## PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)

### 33. CONTRACTORS RESPONSIBILITY

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other certificate, has been approved.

### 34. METHOD STATEMENT

The contractor shall produce, when required to do so by the Principal Agent, a method statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the works. Any approval given or observation made by the Principal Agent shall not relieve the contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the works. The method statement developed shall be project specific.

### 35. QUALITY CONTROL AND QUALITY ASSURANCE

The contractor shall be required to provide suitably qualified and experienced staff capable of executing the work to the required standard and quality.

Definitions

The following definitions are applicable:

Quality Policy: The overall intentions and direction of an organisation as regards quality.

Quality System: The organisational structures, responsibilities, procedures, processes and resources for implementing quality policy.

Quality Control: The operational techniques and activities that are used to fulfil requirements of quality.

Quality Assurance: All those planned and systematic actions necessary to provide adequate confidence that a product or service will satisfy given requirements for quality.

General:

The contractor shall submit his quality policy and comprehensive quality system proposals prior to appointment and within one week of being requested by the Principal Agent to do so. The quality system shall be drawn up to meet the requirements set out herein and incorporating all additional requirements and controls the contractor considers necessary for effective quality control and assurance of products and service. The contractor shall provide dedicated and experience staff capable for implementing the proposed quality system.

The Principal Agent shall comment on the quality system within two weeks of receipt of same from the contractor, outlining additions or amendments considered necessary for acceptance of the quality systems. The contractor shall meet with the Principal Agent and amend the contents of the quality systems according to the Principal Agent's comments. Amendments to the system shall be made within one week of the Principal Agent's comments. Upon final acceptance of the quality system, it shall form a quality manual which shall, inter alia, contain the following:

- Quality policy.
- Organisational goals and structures.
- Internal audit plan incorporating resources, documentation, procedures and processes, etc.
- Record keeping.
- Reports: format and content.
- Follow up actions and audit finding.
- Testing: including outside testing by CSIR, SANS, PCI and others.
- Measurement control.
- Non-conformance: identification, review, corrective action, prevention of recurrence, etc.

## PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)

### 35. QUALITY CONTROL AND QUALITY ASSURANCE (CONTINUED)

The acceptance of the quality system by the Principal Agent does not supersede or negate any other quality control conditions stipulated elsewhere in the contract documents and in the instance of contradiction of requirements being identified, specific requirements shall override general requirements. Acceptance of the system by the Principal Agent shall not in any way supersede, negate or alter the intent, content or interpretation of the specification or conditions of contract specified elsewhere in the contract documents. Acceptance of the system by the Principal Agent does not in any way relieve the contractor of his responsibility to satisfy the conditions of contract and to achieve and maintain the specified standards. The quality system is an audit procedure and does not necessarily describe the contractor's total responsibility in terms of quality control.

The Principal Agent may from time to time call for the quality control assurance data sheets for random checking of:

- The manner in which the system is being administrated
- The technical acceptability of the contents of the sheets, and
- The effectiveness of the system in controlling the attainment of the required end product.

If the system is found to be inadequate or ineffective the Principal Agent will have the right to declare the system or parts thereof as being areas of "non-performance". In the event of the Principal Agent instructing the contractor by an architect's instruction of an area of "non-performance" the following options may be implemented by the principal agent at no additional costs to the employer and without any claim for delays.

The structure for approval may be altered necessitating the signature of quality control and assurance data sheets by designated agents before work of a particular nature and/or in a particular area can proceed through the various check stages of the system.

The structure of the system may be altered by extending the detail of checking required by the system and/or the frequency at which check sheets have to be produced.

The geographical boundaries of a typical checking operation may be altered thereby requiring the contractors to perform more comprehensive checks on smaller portions of the work.

The contractor shall react immediately to an instruction by the Principal Agent regarding any alteration to the procedure of the system. On receipt of an instruction on any non-performance from the Principal Agent the contractor shall not proceed with any of the affected work until acceptance of the revised procedure has been obtained from the Principal Agent.

Once the Principal Agent is satisfied that the revised quality control and assurance procedures are effective, the contractor will be informed by means of an official Principal Agent's instruction of the extent to which the system may revert back to the principle of management by exception. It is envisaged that the system should generally operate on such a basis and providing the results are satisfactory, the contractor is not expected to attain approval by countersignature of every quality control data sheet.

In instances where up-front inspection is an industry norm (e.g. inspection of reinforcing by the structural engineer) or where the specification demands such inspection, the contractor must take this into account when compiling the quality control system.

It is envisaged that "samples and mock-ups" shall be extensively used to define the accepted standards of workmanship and materials to be used. A lockable sample room with shelving must be provided by the contractor to accommodate all loose samples for the duration of the project. The contractor shall also prepare and maintain a register of all samples indicating numbers, date, bill of quantities and specification reference, approval and relevant documents.

The Principal Agent will submit a quality report indicating areas of concern with regard to the quality of the project. The contractor is to remedy the works within a two-week period or supply the Principal Agent with a programme indicating the duration of remedial work for specific items. Such programme will be subject to the reasonable approval of the Principal Agent.

## **PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)**

### **36. OMISSION FOR WORK FOR WHICH PROVISIONAL SUMS HAVE BEEN ALLOWED**

The selected / nominated subcontract amounts allowed in these bills of quantities include work to be executed in accordance with employer's requirements. The contractor accepts that, such work may, at the Principal Agent's discretion, be omitted from this contract and executed under separate contract/s. In such case, the contractor shall allow access to the handed over areas of the works to allow such separate contractors to proceed with such work prior to handover and/or expiry of the defect's liability period.

The contractor hereby accepts that he shall not be entitled to any profit mark-up on the omitted work and that no claim for loss of profit shall be entertained.

### **37. SPECIAL TASKS**

The Employer shall have the right to employ other contractors to execute any special tasks whether contained in this contract or not, concurrently with the works being executed under this contract.

The contractor shall not be entitled to any profit and / or builder's discount on the value of any work executed by other contractors but shall nevertheless allow these other contractors and the Employer's employees to have access to the works, allocate reasonable space for the storage of their materials, tools and equipment.

Without in any way detracting from the generality of or limiting the above, the contractor is advised that the special tasks will be carried out by the Employer and other contractors and the value of such work shall not be included in this contract.

### **38. INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS AND BILLS OF QUANTITIES**

The contractor shall be held solely responsible for and shall, at his own expense, rectify any errors arising out of the incorrect interpretation of the Drawings, Specifications, Bills of Quantities or Instructions.

Should any part of the Drawings, Specifications or Bills of Quantities not be clearly intelligible to the contractor, or the material or articles to be used in the execution of the works be considered insufficiently described or the manner in which the work is to be carried out not clear, the contractor must obtain from the Principal Agent the necessary information to clarify such Drawings, Specifications, Bills of Quantities or Instructions, which request shall be in writing.

All drawings, whatever their origin, are to be issued to the site or to any other person or persons only through the Principal Agent's office and shall bear the Principal Agent's office stamp and signature and an up to date register of all drawings issued to the contractor shall be kept on the works. Any other drawings used on the site will be used at the contractor's risk and should any work be incorrect due to the use of unauthorised drawings the cost of rectifying such work shall be for the contractor's account.

All drawings used on the works shall be properly mounted on suitable sheet material or otherwise protected and kept in good condition. Any drawings becoming bleached or otherwise obscured so that they cannot be properly read shall be returned to the Principal Agent for replacement, as any errors due to misreading of damaged or obscured drawings shall be made good by the contractor at his own expense.

### **39. AVAILABILITY OF MANAGEMENT PERSONNEL**

It shall be deemed that the contractor has allowed in the contract amount for the contract's manager, Site Agent, senior quantity surveyor, health and safety officer and a responsible representative for the management of direct contracts, throughout the duration of the contract. Such persons are to be available to attend meetings to resolve any contractual and other related issues within 24 (twenty-four) hours on receipt of notice, either written or verbal, from the Principal Agent.

### **40. LOCAL LABOUR**

It is deemed that the contractor shall, as far as possible, maximise the use of labour from the area in which the project is located.

## **PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)**

### **41. REMOVAL AND MAKING GOOD TEMPORARY WORKS ETC. ON COMPLETION**

The contractor shall remove (except where specifically stated otherwise) all temporary works, roads, hoardings, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.

### **42. EQUIVALENT AND EQUALLY APPROVED MATERIAL**

Where reference is made to a particular trade name or product, the Tenderer is to note that the term “equivalent and equally approved” applies in all instances. Where the Tenderer chooses to investigate and price a product that they consider to be equally approved to that stated, the Tenderer is required to provide evidence consisting of Drawings, specifications and product catalogues with their Tender. Such information needs to satisfy the adjudicators that the alternative proposed is in fact equivalent and equally approved. The Client is not obliged to accept any alternative proposed.

### **43. PRECONTRACT ENGAGEMENT**

Contractors shall be engaged prior to issuance of site possession to facilitate all necessary precontract work which shall include the construction work permit application (if applicable), procurement of specialist sub-contractors, finalisation of contract and any design coordination between the contractor and the professional team. Contractors will be required to make the necessary allowances for such work during this period as no claims for additional preliminaries will be entertained.

### **44. ECONOMIC TRANSFORMATION**

For contracts above R30m, the 2017 PPPFA Regulations require organs of State to identify tenders, where it is feasible, to subcontract a minimum of 30% of the value of the contract to the following designated groups:

- (a) an EME or QSE;
- (b) an EME or QSE which is at least 51% owned by black people;
- (c) an EME or QSE which is at least 51% owned by black people who are youth;
- (d) an EME or QSE which is at least 51% owned by black people who are women;
- (e) an EME or QSE which is at least 51% owned by black people with disabilities;
- (f) an EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships;
- (g) a cooperative which is at least 51% owned by black people;
- (h) an EME or QSE which is at least 51% owned by black people who are military veterans; or
- (i) more than one of the categories referred to in paragraphs (a) to (h).

To give effect to Economic Transformation requirements, the following requirements apply:

#### **Ward Based CPG – Required upon Contract Award**

It is a condition of contract that the contractor must allow for a minimum of 30% of the contract value (excluding PC Sum items and Fixed Cost allowances) to be subcontracted to contractors who are >76% PPG (Priority Population Group) owned. Proof of payment to the subcontractors will be required to verify that the minimum has been achieved.

Note that the CPG requirement is applicable to works undertaken by both the Lead and CPG partner/s. The 30% CPG shall be achieved using locally (viz. ward based) contractors, from the Ward within which the works are being undertaken in the first instance. In the event that suitable/qualifying contractors cannot be found within the immediate ward, such may be drawn from adjacent wards and, as a last option, from anywhere within the Tshwane Municipality boundary.

Entities that would like to be eligible for work opportunities must be registered on CSD in order to be considered.

CPG may be obtained across the entire value chain and includes, but is not limited to:

- Sub-contracting to designated groups
- Material procurement from qualifying entities within the ward or adjacent ward
- Logistics / transportation
- Plant hire
- Security and peripheral services

## PART 2: C1.2.2 SPECIAL CONDITIONS OF CONTRACT (CONTINUED)

### 44. ECONOMIC TRANSFORMATION (CONTINUED)

The CPG Service Providers must come from one of the following designated groups:

- (a) an EME or QSE;
- (b) an EME or QSE which is at least 51% owned by black people;
- (c) an EME or QSE which is at least 51% owned by black people who are youth;
- (d) an EME or QSE which is at least 51% owned by black people who are women;
- (e) an EME or QSE which is at least 51% owned by black people with disabilities;
- (f) an EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships;
- (g) a cooperative which is at least 51% owned by black people;
- (h) an EME or QSE which is at least 51% owned by black people who are military veterans; or
- (i) more than one of the categories referred to in paragraphs (a) to (h).

In awarding works to the CPG Ward Based Contractor, the tenderer shall engage in a competitive tendering process between the identified contractors; this process must be managed and adjudicated by the Contractor.

#### **Monitoring**

The CPG target achieved:

- must be reported by the Contractor on a monthly basis;
- In instances where the nature of works requested is deemed to be specialised, requires outsourcing, and does not lend itself to high levels of CPG participation, (e.g. specialist mechanical works etc), the CPG requirement specific to the Task Order, may be waived, at the discretion of the Employer.

### 45. SPECIFIC PRELIMINARIES

Contractors are to refer to the specific preliminaries contained within the priced bills of quantities.

### PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA

The Clause References and Principal Contract Data provided in the table below must be read in conjunction with the Standard JBCC Principal Contract Data Form for Information provided by the Employer.

#### A PROJECT INFORMATION

##### A 1.0 Works [1.1]

<b>Project Name</b>	Renovations and Additions of an Existing Building for Office Space
<b>Reference Number</b>	UMALUSI (20-21) T0003
<b>Works Description</b>	The project scope entails the removal of all existing works in the existing office space and replace with new including the addition of a new ablution facility in accordance with the architectural design. The project scope is further defined in part C3 of the bid document.

##### A 2.0 Site [1.1]

<b>Erf / Stand Number</b>	ERF ½ Persequor
<b>Township / Suburb</b>	Pretoria
<b>Site Address</b>	41 General Van Ryneveld Street, Brummeria, Pretoria, 0020
<b>Local Authority</b>	City of Tshwane Metropolitan Municipality

##### A 3.0 Employer [1.1]

<b>Name</b>	UMALUSI		
<b>Legal Entity of Above</b>	UMALUSI Council for Quality Assurance in General and Further Education and Training		
<b>Business Registration Number</b>	A statutory body created in terms of Act No. 58 of 2001, as amended		
<b>VAT/ GST Number</b>	44602002015		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Ms Nthabiseng Mofokeng		
<b>Telephone Number</b>	012 349 1510		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:Nthabiseng.Mofokeng@umalusi.org.za">Nthabiseng.Mofokeng@umalusi.org.za</a>		
<b>Postal Address</b>	41 General Van Ryneveld Street, Brummeria, Pretoria	<b>Code</b>	0020
<b>Physical Address</b>	41 General Van Ryneveld Street, Brummeria, Pretoria	<b>Code</b>	0020

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**A PROJECT INFORMATION (CONTINUED)**

**A 4.0 Principal Agent [1.1]**

<b>Name</b>	LDM Consulting (Pty) Ltd		
<b>Legal Entity of Above</b>	LDM Consulting (Pty) Ltd		
<b>Practice Number</b>	2003/000818/07		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Fezal Jumoorty		
<b>Telephone Number</b>	031 207 1340		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:fezal@ldm.co.za">fezal@ldm.co.za</a>		
<b>Postal Address</b>	21, West Riding Row, Sherwood, Durban	<b>Code</b>	4091
<b>Physical Address</b>	21, West Riding Row, Sherwood, Durban	<b>Code</b>	4091

**A 5.0 Agent [1.1; 6.2]**

<b>Discipline</b>	Quantity Surveying		
<b>Name</b>	LDM Consulting (Pty) Ltd		
<b>Legal Entity of Above</b>	LDM Consulting (Pty) Ltd		
<b>Practice Number</b>	2003/000818/07		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Pieter Martins		
<b>Telephone Number</b>	011 442 0754		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:Pieter@ldm.co.za">Pieter@ldm.co.za</a>		
<b>Postal Address</b>	Suite 13, 1 <sup>st</sup> Floor, Katherine & West Building, 114 West Street, Sandown, Johannesburg	<b>Code</b>	2196
<b>Physical Address</b>	Suite 13, 1 <sup>st</sup> Floor, Katherine & West Building, 114 West Street, Sandown, Johannesburg	<b>Code</b>	2196

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**A PROJECT INFORMATION (CONTINUED)**

**A 6.0 Agent [1.1; 6.2]**

<b>Discipline</b>	Architecture		
<b>Name</b>	PGA Architects (Pty) Ltd		
<b>Legal Entity of Above</b>	PGA Architects (Pty) Ltd		
<b>Practice Number</b>	2015/144891/7		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Walter Lombard		
<b>Telephone Number</b>	012 346 5221		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:Walter@pgaarchitects.co.za">Walter@pgaarchitects.co.za</a>		
<b>Postal Address</b>	239 Lange Street, Nieuw Muckleneuk, Pretoria	<b>Code</b>	0181
<b>Postal Address</b>	239 Lange Street, Nieuw Muckleneuk, Pretoria	<b>Code</b>	0181

**A 7.0 Agent [1.1; 6.2]**

<b>Discipline</b>	Electrical & Electronic Engineering		
<b>Name</b>	Ibuya Consulting Engineers CC		
<b>Legal Entity of Above</b>	Ibuya Consulting Engineers CC		
<b>Practice Number</b>	2005/121584/23		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Mikyle Kambaran		
<b>Telephone Number</b>	N/A		
<b>Mobile Number</b>	072 377 1485		
<b>Email</b>	<a href="mailto:mikyle@ibuya.co.za">mikyle@ibuya.co.za</a>		
<b>Postal Address</b>	Suite 13, 1 <sup>st</sup> Floor, Katherine & West Building, 114 West Street, Sandown, Johannesburg	<b>Code</b>	2196
<b>Physical Address</b>	Suite 13, 1 <sup>st</sup> Floor, Katherine & West Building, 114 West Street, Sandown, Johannesburg	<b>Code</b>	2196

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**A PROJECT INFORMATION (CONTINUED)**

**A 8.0 Agent [1.1; 6.2]**

<b>Discipline</b>	Mechanical & Fire Engineering		
<b>Name</b>	LSG Consulting Engineers Inc		
<b>Legal Entity of Above</b>	LSG Consulting Engineers Inc		
<b>Practice Number</b>	2016/163640/21		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Linga Moodley		
<b>Telephone Number</b>	012 346 8676		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:linga@lsqconsulting.co.za">linga@lsqconsulting.co.za</a>		
<b>Postal Address</b>	239 Lange Street, Nieuw Muckleneuk, Pretoria	<b>Code</b>	0181
<b>Postal Address</b>	239 Lange Street, Nieuw Muckleneuk, Pretoria	<b>Code</b>	0181

**A 9.0 Agent [1.1; 6.2]**

<b>Discipline</b>	Occupational Health and Safety		
<b>Name</b>	Sobuya Safety Consultants		
<b>Legal Entity of Above</b>	Sobuya Safety Consultants		
<b>Practice Number</b>	2013/174163/07		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Adam Peters		
<b>Telephone Number</b>	031 207 2051		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:adampeters@sobuyagroup.co.za">adampeters@sobuyagroup.co.za</a>		
<b>Postal Address</b>	29 Jesmond Grove, Unit 3, Musgrave, Durban	<b>Code</b>	4001
<b>Postal Address</b>	29 Jesmond Grove, Unit 3, Musgrave, Durban	<b>Code</b>	4001

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**A 10.0 Agent [1.1; 6.2]**

<b>Discipline</b>	Civil & Structural Engineering		
<b>Name</b>	MAP Africa Consulting Engineers		
<b>Legal Entity of Above</b>	MAP Africa Consulting Engineers		
<b>Practice Number</b>	2001/028826/23		
<b>Country</b>	Republic of South Africa		
<b>Contact Person</b>	Mr Sidesh Sirputh		
<b>Telephone Number</b>	011 234 3819		
<b>Mobile Number</b>	N/A		
<b>Email</b>	<a href="mailto:sidesh@mapafrica.co.za">sidesh@mapafrica.co.za</a>		
<b>Postal Address</b>	Loft C, 1st Floor ,Aptus House, Riverworld Park, 42 Homestead Road, Rivonia	<b>Code</b>	2191
<b>Postal Address</b>	Loft C, 1st Floor ,Aptus House, Riverworld Park, 42 Homestead Road, Rivonia	<b>Code</b>	4001

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION**

**B 1.0 Definitions [1.1]**

<b>Bills of Quantities: System/ Method of measurement</b>	Standard System of Measuring Building Works – Seventh Edition 2015
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**B 2.0 Law, Regulations and Notices [2.0]**

<b>Law applicable to the works, state country [2.1]</b>	Republic of South Africa
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**B 3.0 Offer and Acceptance [3.0]**

<b>Currency applicable to this agreement [3.2]</b>	South African Rand (R)
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**B 4.0 Documents [5.0]**

<b>The original signed agreement is to be held by the principal [5.2], if not, indicate by whom</b>	The Client: Umalusi
<b>Number of copies of contract information issued to the contractor at no cost [5.6]</b>	1

<b>Documents comprising the agreement</b>	<b>Page numbers</b>
The JBCC Principal Building Agreement, Edition 6.2 May 2018	1 to 30
The JBCC Principal Building Agreement – Contract Data, Edition 6.2 May 2018	1 to 14
The JBCC General Preliminaries for use with the JBCC Building Agreement, Edition 6.2 May 2018	1 to 7
The Priced Bill of Quantities	105 to 324

<b>Contract drawings – description</b>	<b>Number</b>	<b>Revision</b>	<b>Date</b>
Refer to Annexure F for Tender Drawings	-	-	-

**B 5.0 Employer’s Agents [6.0]**

<b>Authority is delegate to the following agents to issue contract instructions and perform duties for specific aspects of the works [6.2]</b>
To be further advise at the site handover and contract collation.

<b>Principal agent’s and agent’s interest or involvement in the works other than a professional interest [6.3]</b>
None

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 6.0 Insurances [10.0]**

Insurances by employer		Amount including tax	Deductible amount including tax
<b>Contract works insurance:</b>			
	<b>New works [10.1.1] (contract sum or amount)</b>	N/A	-
<b>Or</b>	<b>Works with practical completion in sections [10.2] (contract sum or amount)</b>	N/A	-
<b>Or</b>	<b>Works with alterations and additions [10.3] (reinstatement value of existing structures with or</b>	R 60 Million	As per Policy
	<b>Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance</b>	N/A	-
	<b>Free issue [10.1.1; 10.2] where applicable included in the contract works insurance</b>	N/A	-
	<b>Escalation, professional fees and reinstatement costs if not included above</b>	N/A	-
<b>Total of the above contract works insurance amount</b>		N/A	-
<b>Supplementary insurance [10.1.2; 10.2]</b>		N/A	-
<b>Public liability insurance [10.1.3; 10.2]</b>		N/A	-
<b>Removal of lateral support insurance [10.1.4; 10.2]</b>		N/A	-
<b>Other insurances [10.1.5]</b>		N/A	-
<b>Yes/no?</b>	<b>If yes, description 1</b>	N/A	-
<b>Yes/no?</b>	<b>If yes, description 2</b>	N/A	-

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 6.0 Insurances [10.0] (Continued)**

And/ or

Insurances by contractor		Amount including tax	Deductible amount including tax
<b>Contract works insurance:</b>			
	New works [10.1.1] (contract sum or amount)	N/A	-
	Direct contractors [10.1.1; 10.2] where applicable, to be included in the contract works insurance	N/A	-
	Free issue [10.1.1; 10.2] where applicable included in the contract works insurance	N/A	-
	Escalation, professional fees and reinstatement costs if not included above	N/A	-
Total of the above contract works insurance amount		N/A	-
Supplementary insurance [10.1.2]		Not Applicable	
Public liability insurance [10.1.3]		R 10 Million	As per Policy
Removal of lateral support insurance [10.1.4]		N/A	-
Other insurances [10.1.5]			
Yes/ no?	Yes SASRIA	R 10 Million	As per Policy

**B 7.0 Obligations of the employer [12.1]**

Existing premises will be in use and occupied [12.1.2]		Yes/ no?	No
If yes, description	Not Applicable		
Restriction of working hours [12.1.2]		Yes/ no?	Yes
If yes, description	07h00 to 17h00 unless otherwise approved by the Client		
Natural feature and known services to be preserved by the contractor [12.1.3]		Yes/ no?	Yes
If yes, description	To be indicated at compulsory briefing and at site handover		
Restrictions to the site or areas that the contractor may not occupy [12.1.4]		Yes/ no?	Yes
If yes, description	The contractor will be restricted to the site establishment and the area of works only. The contractor shall provide adequate protection for public safety, in the form of safety signage, barricading, overhead gantries, etc. during the execution of the works.		
Supply for free issue [12.1.10]		Yes/ no?	No
If yes, description	Not Applicable		

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 8.0 Nominated subcontractors [14.0]**

Specialisation 1	Not Applicable
Specialisation 2	Not Applicable
Specialisation 3	Not Applicable
Specialisation 4	Not Applicable

**B 9.0 Direct Contractors [16.0]**

Extent of work [12.1.11]	Furniture supply and Installation
Extent of work [12.1.11]	-
Extent of work [12.1.11]	-
Extent of work [12.1.11]	-

**B 10.0 Description of sections [20.1]**

<b>Section 1</b>	Not Applicable
<b>Section 2</b>	Not Applicable
<b>Section 3</b>	Not Applicable
<b>Section 4</b>	Not Applicable
<b>Section 5</b>	Not Applicable
<b>Section 6</b>	Not Applicable
<b>Section 7</b>	Not Applicable
<b>Section 8</b>	Not Applicable
<b>Section</b>	<b>Remainder of the works</b>

**B 11.0 Possession of site [12.1.5], practical completion [19.0; 20.0] and penalties [24.0]**

Practical completion for the works as a whole	Intended date of possession of the site [12.1.5]	Period for inspection by the principal agent [19.3]	Date for practical completion [12.2.7; 24.1]	Penalty [24.1]
	Date	Working days	Date	Penalty amount per calendar day
	01 July 2021	7 Days	Eight (8) Months from date of possession of site	0.04% of Tender Sum inclusive of 15% VAT

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

Or where sections are applicable

Practical completion of a section of the works	Intended date of possession of a section [12.1.5]	Period for inspection by the principal agent [19.3]	Date for practical completion [12.2.7; 24.1]	Penalty [24.1]
	Date	Working days	Date	Penalty amount per calendar day
Section 1	N/A	-	-	-
Section 2	N/A	-	-	-
Section 3	N/A	-	-	-
Section 4	N/A	-	-	-
Section 5	N/A	-	-	-
Section 6	N/A	-	-	-
Section 7	N/A	-	-	-
Section 8	N/A	-	-	-
Remainder of the works	N/A	-	-	-

<b>Criteria to achieve practical completion not covered in the definition of practical completion</b>
As set out in the preliminaries under clause 19 and further defined in the special conditions of contract

**B 12.0 Payment [25.0]**

<b>Date of month for issue of regular payment certificates [25.2]</b>	<b>Last day of each month</b>	
<b>Cost fluctuations [25.3.4; 26.9.5]</b>	<b>Yes/ no?</b>	No – Fixed price contract
<b>If yes, method to calculate</b>	N/A	

**B 13.0 Dispute Resolution [30.0]**

<b>Adjudication [30.6.1; 30.10] Name of nominating body</b>	Construction Adjudication Association of South Africa (CAASA)
<b>Applicable rule for adjudication [30.6.2]</b>	As per CAASA
<b>Arbitration [30.7.4; 30.10] Name of nominating body</b>	The Association of Arbitrators South Africa (TAASA)
<b>Applicable rule for arbitration [30.7.5]</b>	As per TAASA

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 14.0 JBCC General Preliminaries – selections**

<b>Provisional bills of quantities [P2.2]</b>		<b>Yes/ no?</b>	Yes
<b>Availability of construction information [P2.3]</b>		<b>Yes/ no?</b>	Yes
<b>Previous work – dimension accuracy – details of previous contract(s) [P3.1]</b>		The Contractor to verify all dimensions on site and report any discrepancies.	
<b>Previous work – defects – details of previous contract(s) [P3.2]</b>		The Contractor is to inspect and document all defects in a form of report prior to commencement of the works.	
<b>Inspection of adjoining properties – details [P3.3]</b>		The Contractor is to inspect all adjoining structures and document all defects in a form of report prior to commencement of the works.	
<b>Handover of site in stages – specific requirements [P4.1]</b>		Not Applicable	
<b>Enclosure of the works – specific requirements [P4.2]</b>		As prescribed in the General Preliminaries	
<b>Geotechnical and other investigations – specific requirements [P4.3]</b>		Refer to Annexure B	
<b>Existing premises occupied – details [P4.5]</b>		No	
<b>Services – known – specific requirements [P4.6]</b>		All Existing services and protection requirements shall be identified at site handover	
<b>Water [P8.1]</b>	<b>By contractor</b>	<b>Yes/ no?</b>	Yes
	<b>By employer</b>	<b>Yes/ no?</b>	No
	<b>By employer – metered</b>	<b>Yes/ no?</b>	No
<b>Electricity [P8.2]</b>	<b>By contractor</b>	<b>Yes/ no?</b>	Yes
	<b>By employer</b>	<b>Yes/ no?</b>	No
	<b>By employer – metered</b>	<b>Yes/ no?</b>	No
<b>Ablution and welfare [P8.3]</b>	<b>By contractor</b>	<b>Yes/ no?</b>	Yes
	<b>By employer</b>	<b>Yes/ no?</b>	No
<b>Communication facilities – specific requirements [P8.4]</b>		Email, Telephone, etc.	
<b>Protection of the works – specific requirements [P11.1]</b>		The Contractor is to protect the works undertaken by others from damage during the execution of the contract. The cost of rectification as a result of any damages, should they occur, shall be for the contractor's account.	
<b>Protection/ isolation of existing works and works occupied in sections – specific requirements [P11.2]</b>		If Applicable the Contractor maybe required to provide hoarding to areas of works, in accordance with the Principal Agent's instructions.	
<b>Disturbance – specific requirements [P11.5]</b>		As prescribed in the General Preliminaries	
<b>Environmental disturbance – specific requirements [P11.6]</b>		Refer to the Occupational Health and Safety Specifications	

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 15.0 Changes made to JBCC Documentation**

<b>Reference may be made to other documents forming part of this agreement</b>
<b>JBCC Principal Agreement:</b>
Sub-clause 11.10 has been amended to read as follows: "The contractor shall waive his lien or right of continuing possession of the works."
Clause 11.0 has been amended to include the following new sub-clauses:
Sub-clause 11.11 - The guarantee provided by the contractor's Guarantor shall have an expiry date (if stated) no less than 3 months after the practical completion date and shall be extended accordingly should the practical completion date be extended. The cost for same shall be included on the contractor's tender price as no claims for additional cost shall be entertained.
Sub-clause 11.12 - The contractor is required to provide the employer with a variable construction guarantee with twenty-one (21) calendar days of acceptance of the contractors' tender.
Sub-clause 11.13 - Extension of waiver of lien - The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times.
Sub-clause 12.2.6 has been amended to include the following: The programme for the works must be prepared and issued in Microsoft Project Programming Software. The contractor shall include a float of 15 working days within the contract period for project delays such as, but not limited to adverse weather conditions, etc., in the programme. Such provisions shall initially be included at the end of the contract period or proportionally allocate at the end of each section for contracts with sectional completion, and shall be monitored by the contractor and agreed with the Principal Agent as and when such delays takes place and shall be recorded in the programme based on actual stoppages when incurred. Revision of the date for Practical Completion shall only be considered once the 15 working days has been fully utilized.
Sub-clause 12.2.10 has been amended to include the following: The contractor shall be required to maintain, in addition to the approved programme, a comprehensive fortnightly bar-chart programme expanded to reflect anticipated daily activities for the ensuing fourteen (14) days.
Sub-clause 12.2.18 has been amended to include the following: Office accommodation - The contractor shall provide, maintain and remove on practical completion air-conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]. The contractor's site camp shall be equipped with Wi-Fi internet connection which shall be utilised by the contractor's staff, the client and members of professional team. Notice board - The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the Principal Agent listing the names and logos of the Employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18].
Clause 19.0 has been amended to include the following new sub-clauses:
Sub-clause 19.2.3 - The contractor shall within five (5) calendar days of receipt of the list for practical completion issue a program indicating dates for completion for all listed items.

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 15.0 Changes made to JBCC Documentation (Continued)**

<p>Sub-clause 19.2.4 - In the event that such inspection does not result in the work being accepted as Practically complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive practical completion inspection meeting, i.e. Where practical completion is not achieved, by the time taken for such an inspection until practical completion is achieved. In this regard, the Employer reserves the right to recover such costs in addition to any other remedies it may have in accordance with Clause 27.</p>
<p>Clause 21.0 has been amended to include the following new sub-clauses:</p>
<p>Sub-clause 21.13 - In the event that the certificate of Final Completion is not issued due to the contractor's work not being sufficiently complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive final completion inspection meeting, i.e. Where final completion is not achieved in terms of 21.6, by the time taken for such an inspection until final completion is achieved. In this regard, the Employer reserves the right to recover such costs in accordance with Clause 27.</p>
<p>Sub-clause 21.14 - Notwithstanding [21.2], where the contractor fails to rectify/attend to outstanding works or defects on the list for completion, list for final completion or latent defects that appear before the issue of certificate of final completion and where the contractor remains in default, the Employer may engage others to carry out said outstanding works or defects and recover expense and/or loss incurred [27].</p>
<p>Sub-clause 23.1 has been amended to include the following new sub-clause:</p>
<p>Sub-clause 23.1.7 - Delayed possession of site [12.1.5].</p>
<p>Sub-clause 23.2 has been amended to omit the following sub-clause:</p>
<p>Sub-clause 23.2.1 Delayed possession of the site [12.1.5].</p>
<p>Clause 23.0 has been amended to include the following new sub-clauses:</p>
<p>Sub-clause 23.9 - Notwithstanding, sub-clause(s) 23.1 to 23.8 a revision to the practical completion date will only be considered for work on the critical path of the contractual programme or the revised contractual programme, as applicable. Any revised programme, in order to be considered as a contractual programme, must be approved by the Principal Agent in writing, prior to it becoming effective.</p>

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 15.0 Changes made to JBCC Documentation (Continued)**

Sub-clause 25.1 has been amended to include the following: The contractor shall submit the following information on a monthly basis to the Principal Agent and Quantity Surveyor in order to assist with the processing of the payment certificate and the preparation of the empowerment report:

- A detailed breakdown of the work done. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable);
- A detailed breakdown of all variation order costs claimed (With specific reference to work done by the Principal Building Contractor) in the certificate concerned, together with copies of the relevant contract instructions;
- A detailed breakdown of the work done by each sub-contractor. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.);
- A detailed breakdown of all variation order costs claimed in the certificate concerned for sub-contract work, together with copies of the relevant contract instructions;
- A written declaration authenticated by the contracts manager confirming, that the payment claims for work done by sub-contractors has been audited and amended by the contractor's quantity surveyor, prior to it being forwarded to the Principal Agent and Quantity Surveyor for evaluation;
- If applicable, a combined empowerment report which shall include reports on contractor and sub-contractor compliance, in accordance with the format required by the empowerment manager. In this regard, the combined, contractor and sub-contractor empowerment report must contain an affidavit certifying that all information contained the report as being true and correct and must be authenticated by the contractor and a commissioner of oaths. The combined reports must also state that the contractor has checked and verified that all information submitted by sub-contractors is true and correct;
- Tax invoice: the contractor shall attach a tax invoice as prescribed in the value added tax legislation to each payment certificate when presenting the certificate to the employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the payment certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met.

Should anyone or any combination of the above requirements not be complied with, the principal agent reserves the right to exclude any amounts that may have been due for certification from the payment certificate concerned and/ or delay the issue of payment certificates and/ or, revise the contractual payment date, as applicable, until such time compliance is achieved.

Sub-clause 25.4 has been amended to include the following: Where the Employer agrees to pay for materials on/off site, the contractor shall be required to provide the Principal Agent with the necessary forms for cession of ownership for such materials, with the necessary delivery notes and invoices (where applicable).

Sub-clause 25.10 has been amended as follows: Replace the words "fourteen (14) calendar days" with "forty (40) calendar days".

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**B CONTRACT INFORMATION (CONTINUED)**

**B 15.0 Changes made to JBCC Documentation (Continued)**

<p>Sub-clause 26.1 has been amended to include the following: Contract Instructions - Instructions given by the Employer's agents in relation to the contract works, shall, irrespective of the format or wording of such instructions, not indicate that the work involved represents an extra or variation and shall not be deemed to be acceptance of any prices or quotations contained in any correspondence. It is recorded that only the quantity surveyor where appointed by the employer for quantity surveying services is empowered, to rule whether any instructions issued constitutes an extra or not and, to resolve cost aspects of any matter pertaining to this contract.</p>
<p><b>JBCC General Preliminaries:</b></p>
<p>Sub-clause 2.1 refers – the following is to be added after the words “written directive”: The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the General Preambles for Trades 2017 as recommended and published by the Association of South African Quantity Surveyors, 2017 edition, and no claim arising from brevity of description of items fully described in the said General Preambles for Trades 2017 and Supplementary documentation will be entertained. Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.</p>
<p>Clause 5 has been amended to include the following new sub-clause:</p>
<p>Sub-clause 5.4 - Daily records - The contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site. 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. At the end of each week the contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>
<p>Sub-clause 6.2 has been amended to include the following: The contractor shall provide a mock-up of all finished surfaces prior to commencement of the relevant work. The contractor shall only be permitted to commence with the relevant scope of work, on approval of the mock-up by the Principal Agent or its designated representative.</p>
<p>Sub-clause 6.3 refers – the following is to be added after the words 'and/or approval': Shop drawings shall be submitted to the principal agents for approval at least ten (10) working days weeks prior to the date on which such approval is required in order to comply with the programme. All submissions shall be prepared in accordance with the contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agent's instruction shall not constitute grounds for any claims for delay, extension of time and the like. The contractor shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work. Should the contractor, sub-contractor, supplier or manufacturer be of the opinion that corrections to shop drawings made by the Principal Agent, constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Principal Agent's directive.</p>
<p>Sub-clause 6.3.1 has been amended as follows: Replace the words “two (2) copies” with “four (4) copies” under bullet point number 6.</p>
<p>Sub-clause 10.2 has been amended to include the following: The Tenderer shall examine all drawings and information pertaining to the works as a whole and shall provide all necessary special attendance resources required for the due and proper execution and completion of all sub-contract works.</p>

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**C TENDER CLOSING**

<b>Tender closing date</b>	As Per Tender Notice & Invitation T1.1	<b>Time</b>	As Per Tender Notice & Invitation T1.1
<b>Tender submission address</b>	As Per Tender Notice & Invitation T1.1		
<b>Tender may be submitted by e-mail</b>	<b>Yes/ no?</b>	No	<b>Email address</b> Not Applicable

**D TENDERER'S SELECTION (to be completed by the tenderer)**

**D 1.0 Securities [11.0]**

Guarantee for construction: Select Option A or B

<b>Option A</b>	<b>Guarantee for construction (variable) by contractor [11.1.1]</b>	
<b>Option B</b>	<b>Guarantee for construction (fixed) by contractor [11.1.2]</b>	
<b>Guarantee for payment by employer [11.5.1; 11.10]</b>	<b>Amount</b>	Not Applicable
<b>Advance payment, subject to a guarantee for advance payment [11.2.2; 11.3]</b>	<b>Amount</b>	Not Applicable

**D 2.0 Contractor's annual holiday periods during the construction period**

<b>Year 1 contractor's annual holiday period</b>	<b>Start date</b>		<b>End date</b>	
<b>Year 2 contractor's annual holiday period</b>	<b>Start date</b>		<b>End date</b>	
<b>Year 3 contractor's annual holiday period</b>	<b>Start date</b>		<b>End date</b>	

**D 3.0 Payment of Preliminaries [25.0]**

Select Option A or B  Where the contractor does not select an option, Option A shall apply

Where the total amount of preliminaries is not identified (in a lump sum contract) it shall be taken as 7.5% (seven and a half percent) of the contract sum, excluding contingency sums and any provision for contract price adjustment (cost fluctuation)

<b>Option A</b>	Assessed by principal agent, an amount pro-rated to the value of the works executed in the same ratio as the amount of the preliminaries to the contract sum which contract sum shall exclude the amount of preliminaries. Contingency sum(s) and any provision for contract price adjustment (cost fluctuations) shall be excluded for the calculation of the aforesaid ratio.
<b>Option B</b>	An amount agreed by the principal agent and the contractor in terms of the bills of quantities or the priced document to identify an initial establishment charge, a time-based charge and a final disestablishment charge. Payment of the time-based charge shall be adjusted from time to time as may be necessary to take into account the progress of the works.

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**D TENDERER'S SELECTION (CONTINUED)**

**D 4.0 Adjustment of Preliminaries [26.9.4]**

Select Option A or B  Where the contractor does not select an option, Option A shall apply

The amount of preliminaries shall be adjusted to take account of the effect of changes in time and/or value on preliminaries. Such adjustment shall be based on the particulars provided by the contractor for this purpose in terms of Option A or B, shall preclude any further adjustment of the amount of preliminaries and shall apply notwithstanding the actual employment of resources by the contractor in the execution of the works.

For the adjustment of preliminaries both the contract sum and the contract value shall exclude the amount of preliminaries, all contingency sum(s) and any provision for Cost Price Adjustment (cost fluctuations).

Where the total amount of preliminaries is not identified (in a lump sum contract) it shall be taken AS 7.5% (seven and a half percent) of the contract sum, excluding contingency sums, and any provision for contract price adjustment (cost fluctuation).

Option A	<p>The preliminaries shall be adjusted in accordance with an allocation of preliminaries amounts to be provided by the contractor within fifteen (15) working days of the date of acceptance of the tender as follows:</p> <ul style="list-style-type: none"> <li>- An amount which shall not be varied;</li> <li>- An amount varied in proportion to the contract value as compared to the contract sum;</li> <li>- An amount varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value as compared to the number of calendar days in the initial construction period.</li> </ul> <p>Where the above-mentioned information is not provided the following allocation of preliminaries amounts shall apply:</p> <ul style="list-style-type: none"> <li>- ten percent (10%) shall not be varied</li> <li>- fifteen percent (15%) shall be varied in proportion to the contract value as compared to the contract sum</li> <li>- seventy-five percent (75%) shall be varied in proportion to the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value as compared to the number of calendar days in the initial construction period</li> </ul> <p>Where completion in sections is required the contractor shall provide an apportionment of preliminaries per section. Should the contractor fail to provide the apportionment of the preliminaries per section the categorised amounts shall be prorated to the cost of each section within the contract sum as determined by the principal agent.</p>
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Option B	<p>The preliminaries shall be adjusted with a detailed breakdown of preliminaries amounts for the works or of a section to be provided by the contractor within fifteen (15) working days of possession of the site. Such breakdown shall inter alia include administrative and supervisory staff charges for the use of construction equipment, all in terms of the programme.</p> <p>The adjustment of preliminaries shall be based on the number of calendar days extension to the date of practical completion to which the contractor is entitled with an adjustment of the contract value as compared to the number of calendar days in the initial construction period taking into account the resources planned for the period of construction during which the delay occurred (not for the period added to the initial or extended date for practical completion).</p> <p>Where the contractor does not provide the detailed breakdown of preliminaries within the period stated, Option A shall apply.</p>
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**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**E FORM OF TENDER**

**E 1.0 Tenderer's details (to be completed by the tenderer)**

<b>Name</b>			
<b>Legal entity of above</b>			
<b>Business Registration Number</b>			
<b>VAT/ GST Number</b>			
<b>Country</b>			
<b>Contact Person</b>			
<b>Telephone Number</b>			
<b>Mobile Number</b>			
<b>Email</b>			
<b>Postal Address</b>		<b>Code</b>	
<b>Physical Address</b>		<b>Code</b>	

**E 2.0 Acceptance of tender conditions**

By submission of this tender to the employer the tenderer offers and agrees to execute and complete the works and to remedy any defects in conformity with the specification of the tender amount stated.

The tender shall remain in full legal force for forty-five (45) calendar days from the closing date of the tender. The tenderer accepts liability for loss or damages that may be suffered by the employer should the tender validity period not be honoured.

The lowest or any tender will not necessarily be accepted by the employer nor will reasons be given for such a decision.

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**E FORM OF TENDER (CONTINUED)**

**E 3.0 Tender amount compilation**

			<b>Amount</b>
<b>Tenderer's work excluding tax</b>			R
<b>Tax</b>	15	%	R
<b>Total tender amount including tax</b>			R
<b>Total tender amount including tax, in words</b>			

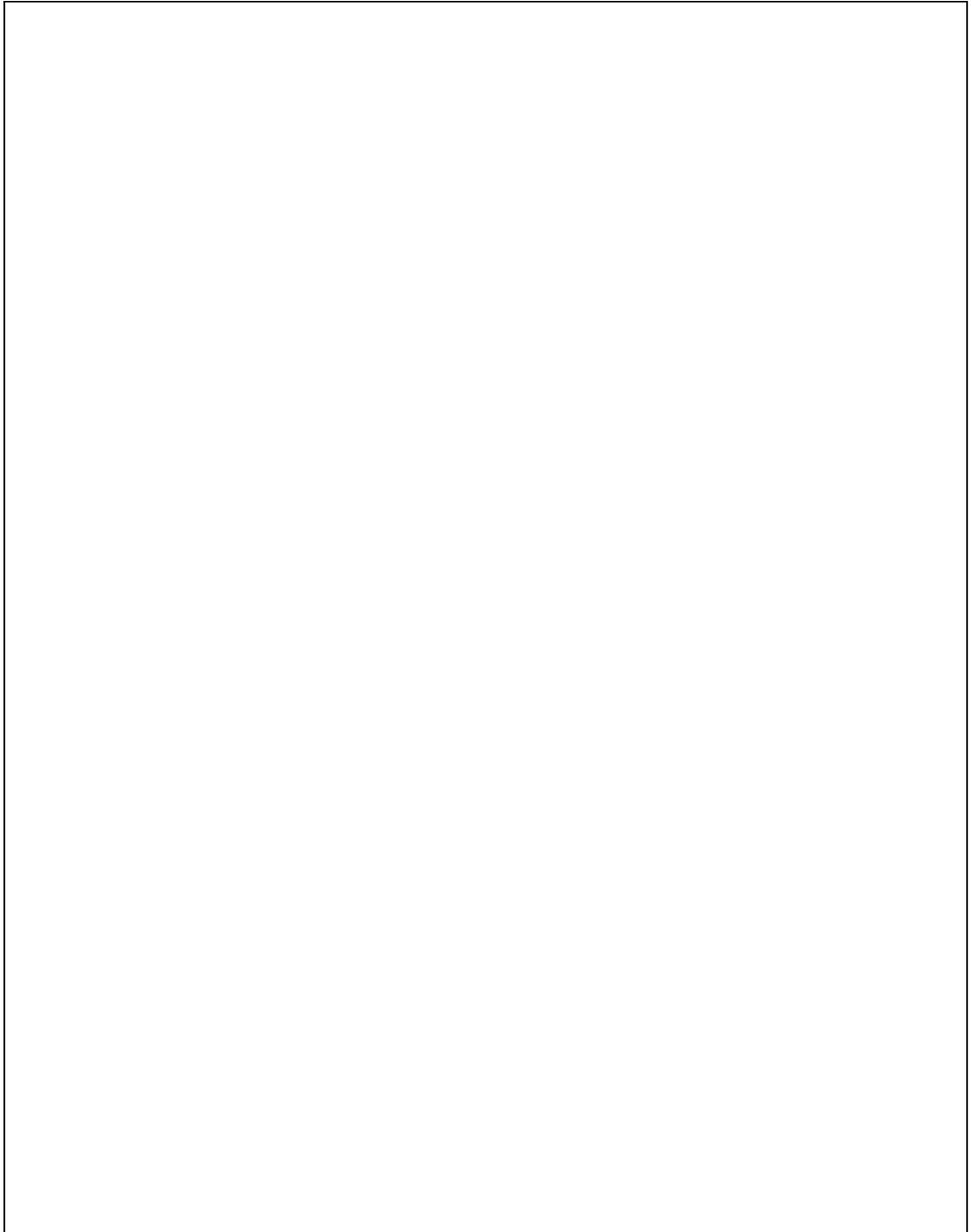
<b>Signature</b>	..... <b>Tenderer who by signature hereto warrants authority</b>	<b>Place</b>	.....
<b>Name</b>			
<b>Capacity</b>			
<b>Date</b>			

<b>Signature</b>	..... <b>Witness</b>	<b>Place</b>	.....
<b>Name</b>			
<b>Date</b>			

**PART 3: C1.2.3 PRINCIPAL BUILDING AGREEMENT CONTRACT DATA (CONTINUED)**

**E FORM OF TENDER (CONTINUED)**

**E 4.0 Tender qualifications**



## **C2.1: PRICING INSTRUCTIONS**

Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")

The adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount variable in proportion to time.

### **1. MASSES AND MEASURING UNITS**

"These shall be in accordance with the Measuring Units and National Measuring Standards Act No. 76 of 1973 and amendments thereto.

The pages of each of these documents are numbered consecutively and before the Tenderer submits his Tender he should check the number of pages, and if any are found missing or duplicated, or the figures or writing indistinct, or the documents contain any obvious error, he should notify the Employer AT ONCE and have same rectified as no liability whatsoever will be admitted by the Administration in respect of errors in Tender due to the foregoing."

### **2. PRICES FOR VARIATIONS**

Where prices or quotations for variations are submitted by the Contractor during the currency of the Contract, it is to be clearly understood that these are for the purpose of consideration by the Principal Agent and that there is no assumption of acceptance. The Contractor will be notified of acceptance of prices or quotations either by insertion of the amount on the variation order or by written intimation.

### **3. SCALE**

The scale to which the Drawings are made is only to be made use of when no figured dimensions are given either on the Drawings or in the tender documents and the figured dimensions are always to be followed though they may not coincide with the scale of the Drawings, but dimensions where possible are to be taken from the buildings.

### **4. PROVISIONAL ITEMS**

"All items described as ""Provisional"" shall be used as directed by the Employer and measured and valued or paid for.

No work for which ""Provisional"" items are allowed shall be ""commenced without written instructions from the Principal Agent."

### **5. TIMELY ORDERING OF MATERIALS**

The Contractor is warned to place all orders for materials or special articles as early as possible, as he will be held solely responsible for any delay in the delivery of such goods. Nevertheless, this tender is conditional upon no liability being attached to the Contractor if delivery of materials is rendered impossible by reason of any act of the Government.

### **6. ELECTRICAL LIGHTING, POWER AND WATER REQUIREMENTS**

The Contractor shall provide any artificial lighting which may be necessary or required for the proper execution of the works, and provide electric power and water required by all Sub-Contractors, Nominated Sub-Contractors and Sub-Contractors appointed directly by the Employer.

The Contractor shall give all notices and pay all fees in connection with temporary electrical and water connections and shall connect temporary Electrical and Water meters for and pay for all current and water consumed.

Tenderers are advised that the permanent light fittings and water points of any kind installed in the Works are not to be used to provide temporary lighting and supplement water requirements for construction purposes.

## **C2.1: PRICING INSTRUCTIONS (CONTINUED)**

### **7. IMPORT PERMITS, DUTIES AND SURCHARGES**

All Tenders, by means of which imported products are being called for, must use the rate of exchange 14 days prior to the closing date indicated in the Tender documents. If this day falls on a weekend or public holiday, the next working day must be used.

Furthermore, Tenderers must submit documentary proof (in the form of a certified copy) from their bank or legally recognised financial institution, clearly indicating what the rate of exchange was 14 days prior to the closing date, as mentioned above.

Together with this, the Tenderer must confirm that the tender price relating to an imported product, was based on the rate of exchange 14 days prior to the closing date as mentioned above.

### **8. STANDARD SYSTEM OF MEASUREMENT WHERE BILLS OF QUANTITIES FORM PART OF THE TENDER DOCUMENTS**

The work executed under this Contract has been measured in accordance with the Seventh (7<sup>th</sup>) edition of the "Standard System of Measuring Building Work", including all amendments unless descriptions of items indicate a deviation and it shall be understood that the system of measurement which is herein adopted is the only system of measurement which will be recognised in connection with this contract.

Any contradictions to this system of measurement contained in the "Standard Preambles to all Trades" shall be disregarded (unless same have been accommodated in the system of measurement) but applicable rates shall be included for all requirements stated and not measured separately in compliance with this system.

### **9. BILLS OF QUANTITIES/ LUMP SUM DOCUMENT**

The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract documents, the Standard Conditions of Tender, Conditions of Contract, Standard Preambles to all Trades, Specifications, Drawings and all other relevant documentation.

### **10. CONTRACT PRICE ADJUSTMENT PROVISIONS**

The Contract Sum shall not be subject to adjustment in accordance with the Contract Price Adjustment Provisions, "Haylett Formula", current at the date of Tender all as issued by Statistics SA or the JBCC.

### **11. VALUE ADDED TAX**

The Tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the Bills of Quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.

## **C2.2: BILLS OF QUANTITIES**

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 1</u></b></p> <p><b><u>BILL NO 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause</p> <p>The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p> <p><b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b></p> <p>Section A :A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> Principal Building Agreement</p> <p>Section B :A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> General Preliminaries</p> <p>Section C :Any special clauses to meet the particular circumstances of the project</p> <p><b><u>PRICING OF PRELIMINARIES</u></b></p> <p>Should the <b>contractor</b> select Option A in the <b>contract data</b> for the adjustment of <b>preliminaries</b>, the amounts entered against the relevant items in these <b>preliminaries</b> are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p> <p><b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b></p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R	
	<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>		R
<b><u>Interpretation (A1-A7)</u></b>		
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>Pricing of bills of quantities</p>	
2	<p>The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained</p>	
3	<p>Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p>	
4	<p>Abbreviated descriptions</p> <p>The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the Principal Agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice</p>	
<b>Carried Forward</b>		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>		R
	<p>Legal status of contractor</p> <p>If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> <li>1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement</li> <li>2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons</li> <li>3. The contractor shall not alter its composition or legal status without the prior written consent of the employer</li> </ol> <p>F:..... V:..... T:.....</p>	Item
5	<p>Clause 2.0 - Law, regulations and notices</p> <p>F:..... V:..... T:.....</p>	Item
6	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>	Item
7	<p>Clause 4.0 - Cession and assignment</p> <p>F:..... V:..... T:.....</p>	Item
8	<p>Clause 5.0 - Documents</p> <p>F:..... V:..... T:.....</p>	Item
9	<p>Clause 6.0 - Employer's agents</p> <p>F:..... V:..... T:.....</p>	Item
10	<p>Clause 7.0 - Design responsibility</p> <p>F:..... V:..... T:.....</p>	Item
	<b><u>Insurances and securities (A8-A11)</u></b>	
11	<p>Clause 8.0 - Works risk</p>	
<b>Carried Forward</b>		R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
12	<p>F:..... V:..... T:.....</p> <p>Clause 9.0 - Indemnities</p>	Item	
13	<p>F:..... V:..... T:.....</p> <p>Clause 10.0 - Insurances</p>	Item	
14	<p>F:..... V:..... T:.....</p> <p>Clause 11.0 - Securities</p> <p>Guarantee for payment</p> <p>The Employer shall not provide to the contractor with a guarantee for payment</p> <p>By virtue of the contractor submitting a tender offer, he is deemed to have waived his lien or right of continuing possession of the works [11.10]</p> <p>Sub-clause 11.10 has been amended to read as follows:</p> <p>"The contractor shall waive his lien or right of continuing possession of the works."</p> <p>Clause 11.0 has been amended to include the following new sub-clauses:</p> <p>Sub-clause 11.11</p> <p>The guarantee provided by the contractor's Guarantor shall have an expiry date (if stated) no less than 3 months after the practical completion date and shall be extended accordingly should the practical completion date be extended. The cost for same shall be included on the contractor's tender price as no claims for additional cost shall be entertained</p> <p>Sub-clause 11.12</p> <p>The contractor is required to provide the Employer with a variable construction guarantee with twenty-one (21) calendar days of acceptance of the contractors' tender</p>	Item	
<b>Carried Forward</b>			R
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>Sub-clause 11.13</p> <p>Extension of waiver of lien</p> <p>The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times</p> <p>F:..... V:..... T:.....</p> <p><b><u>Execution (A12 - A17)</u></b></p> <p>15 Clause 12.0 - Obligations of the parties</p> <p>Sub-clause 12.2.6 has been amended to include the following:</p> <p>The programme for the works must be prepared and issued in Microsoft Project Programming Software</p> <p>The contractor shall include a float of 15 working days within the contract period for project delays such as, but not limited to adverse weather conditions, etc., in the programme. Such provisions shall initially be included at the end of the contract period or proportionally allocate at the end of each section for contracts with sectional completion, and shall be monitored by the contractor and agreed with the Principal Agent as and when such delays takes place and shall be recorded in the programme based on actual stoppages when incurred. Revision of the date for Practical Completion shall only be considered once the 15 working days has been fully utilised</p> <p>Sub-clause 12.2.10 has been amended to include the following:</p> <p>The contractor shall be required to maintain, in addition to the approved programme, a comprehensive fortnightly bar-chart programme expanded to reflect anticipated daily activities for the ensuing fourteen (14) days</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	Item	R	
			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	<p>Sub-clause 12.2.18 has been amended to include the following:</p> <p>Office accommodation</p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p>The contractor's site camp shall be equipped with Wi-Fi internet connection which shall be utilised by the contractor's staff, the client and members of professional team</p> <p>Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the Principal Agent listing the names and logos of the Employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]</p> <p>F:..... V:..... T:.....</p>	Item	
16	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	Item	
17	<p>Clause 14.0 - Nominated subcontractors</p> <p>F:..... V:..... T:.....</p>	Item	
18	<p>Clause 15.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p>	Item	
19	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <ol style="list-style-type: none"> <li>1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials</li> </ol>		
<b>Carried Forward</b>			R
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>		R	
	<p>2. Allow the use of personnel welfare facilities, where provided</p> <p>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</p> <p>4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1]</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 17.0 - Contract instructions</p> <p>F:..... V:..... T:.....</p>	Item		
	<b><u>Completion (A18 - A24)</u></b>			
21	<p>Clause 18.0 - Interim completion</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 19.0 - Practical completion</p> <p>Practical Completion</p> <p>In respect of practical completion:</p> <p>1. The following certificates of compliance, as applicable shall be required (excluding others that may be required by the local/national authority, etc.) from the contractor to achieve practical completion</p> <p>1.1 Certificates from the contractor that all aspects of the Construction Regulations of 2014 have been complied with</p> <p>1.2 Certificates from the contractor that the National Building Regulations have been complied with</p> <p>1.3 Certificates of compliance with respect to plumbing and drainage installations</p> <p>1.4 Certificates of compliance with respect to electrical and electronic installations</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>1.5 Certificates of compliance with respect to all glazing</p> <p>1.6 Certificates of compliance with respect to structural and civil engineering</p> <p>1.7 Certificates of compliance with respect to roof installation</p> <p>1.8 Certificates of compliance with respect to mechanical installation</p> <p>1.9 Certificate of compliance and fire clearance certificate from the contractor and fire chief respectively</p> <p>1.10 Any other compliance documentation deemed necessary as instructed by the Principal Agent</p> <p>1.11 Three complete sets of approved maintenance and operating manuals together with all workmanship and material warranties and guarantees (to be compiled and issued to the Principal Agent prior to achievement of practical completion for approval) and three complete copies of documents in electronic format</p> <p>2. In order to achieve practical completion of the works and without deviating from the generality of the term practical completion, the contractor shall, as a minimum comply with the following basic criteria, as applicable. These criteria should not be regarded as comprehensive but as an expansion of the term practical completion</p> <p>2.1 Electrical installation is to be completed and fully commissioned permanent power and lighting inclusive of all telephone and data installations</p> <p>2.2 Plumbing installation it to be complete, commissioned permanent water supply and drainage tested. Pipe work to be pressured tested</p> <p>2.3 HVAC system installation shall be complete and fully commissioned (except for final adjustments and cooling performance recoding / temperature logging), commissioning reports submitted to the</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>		<p style="text-align: center;">R</p>	
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**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>		R	
	<p>consulting engineer for review and major commissioning defects resolved</p> <p>2.4 All field controllers, network controllers and network fully commissioned operator terminal installed, graphics loaded and all monitoring points operational on the operator terminal. (Customisation of the BMS time schedules, alarm routing and using the BMS to detect and report faults on other services shall be completed prior to works completion)</p> <p>2.5 Sprinklers and fire-fighting equipment completed, commissioned tested and operational</p> <p>3. Health and Safety file</p> <p>Clause 19.0 has been amended to include the following new sub-clauses:</p> <p>Sub-clause 19.2.3</p> <p>The contractor shall within five (5) calendar days of receipt of the list for practical completion issue a program indicating dates for completion for all listed items</p> <p>Sub-clause 19.2.4</p> <p>In the event that such inspection does not result in the work being accepted as Practically complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive practical completion inspection meeting, i.e. Where practical completion is not achieved, by the time taken for such an inspection until practical completion is achieved. In this regard, the Employer reserves the right to recover such costs in addition to any other remedies it may have in accordance with Clause 27</p> <p>F:..... V:..... T:.....</p>			
23	Clause 20.0 - Completion in sections	Item		
24	F:..... V:..... T:.....	N/A		
25	Clause 21.0 - Defects liability period and final completion			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
26	<p>Clause 21.0 has been amended to include the following new sub-clauses:</p> <p>Sub-clause 21.13</p> <p>In the event that the certificate of Final Completion is not issued due to the contractor's work not being sufficiently complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive final completion inspection meeting, i.e. Where final completion is not achieved in terms of 21.6, by the time taken for such an inspection until final completion is achieved. In this regard, the Employer reserves the right to recover such costs in accordance with Clause 27</p>		
27	<p>Sub-clause 21.14</p> <p>Notwithstanding [21.2], where the contractor fails to rectify/attend to outstanding works or defects on the list for completion, list for final completion or latent defects that appear before the issue of certificate of final completion and where the contractor remains in default, the Employer may engage others to carry out said outstanding works or defects and recover expense and/or loss incurred [27]</p> <p>F:..... V:..... T:.....</p>	Item	
28	<p>Clause 22.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>	Item	
29	<p>Clause 23.0 - Revision of the date for practical completion</p> <p>Sub-clause 23.1 has been amended to include the following new sub-clause:</p> <p>Sub-clause 23.1.7</p> <p>Delayed possession of site [12.1.5]</p> <p>Sub-clause 23.2 has been amended to omit the following sub-clause:</p> <p>Sub-clause 23.2.1 Delayed possession of the site [12.1.5]</p>		
<b>Carried Forward</b>			R
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	<p>Clause 23.0 has been amended to include the following new sub-clauses:</p> <p>Sub-clause 23.9</p> <p>Notwithstanding, sub-clause(s) 23.1 to 23.8 a revision to the practical completion date will only be considered for work on the critical path of the contractual programme or the revised contractual programme, as applicable</p> <p>Any revised programme, in order to be considered as a contractual programme, must be approved by the Principal Agent in writing, prior to it becoming effective</p> <p>F:..... V:..... T:.....</p>	Item	
30	<p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p>	Item	
	<b><u>Payment (A25 - A27)</u></b>		
31	Clause 25.0 - Payment		
32	<p>Sub-clause 25.1 has been amended to include the following:</p> <p>The contractor shall submit the following information on a monthly basis to the Principal Agent and Quantity Surveyor in order to assist with the processing of the payment certificate and the preparation of the empowerment report:</p> <ul style="list-style-type: none"> <li>• A detailed breakdown of the work done. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.)</li> <li>• A detailed breakdown of all variation order costs claimed (With specific reference to work done by the Principal Building Contractor) in the certificate concerned, together with copies of the relevant contract instructions</li> <li>• A detailed breakdown of the work done by each sub-contractor. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.)</li> <li>• A detailed breakdown of all variation order costs claimed in the certificate concerned for sub-contract work, together with copies of the relevant contract instructions</li> </ul>		
	<b>Carried Forward</b>		R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

33	<p style="text-align: center;"><b>Brought Forward</b></p> <ul style="list-style-type: none"> <li>A written declaration authenticated by the contracts manager confirming, that the payment claims for work done by sub-contractors has been audited and amended by the contractor's quantity surveyor, prior to it being forwarded to the Principal Agent and Quantity Surveyor for evaluation</li> <li>If applicable, a combined empowerment report which shall include reports on contractor and sub-contractor compliance, in accordance with the format required by the empowerment manager. In this regard, the combined, contractor and sub-contractor empowerment report must contain an affidavit certifying that all information contained the report as being true and correct and must be authenticated by the contractor and a commissioner of oaths. The combined reports must also state that the contractor has checked and verified that all information submitted by sub-contractors is true and correct</li> <li>Tax invoice: the contractor shall attach a tax invoice as prescribed in the Value Added Tax Legislation to each payment certificate when presenting the certificate to the employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the payment certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met</li> </ul> <p>Should anyone or any combination of the above requirements not be complied with, the Principal Agent reserves the right to exclude any amounts that may have been due for certification from the payment certificate concerned and/ or delay the issue of payment certificates and/ or, revise the contractual payment date, as applicable, until such time compliance is achieved</p> <p>Sub-clause 25.4 has been amended to include the following:</p> <p>Where the Employer agrees to pay for materials on/off site, the contractor shall be required to provide the Principal Agent with the necessary forms for cession of ownership for such materials, with the necessary delivery notes and invoices (where applicable)</p> <p>Sub-clause 25.10 has been amended as follows:</p> <p>Replace the words "fourteen (14) calendar days" with "forty (40) calendar days"</p>		R	
	<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries</p>			R

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	F:..... V:..... T:.....	Item	
34	Clause 26.0 - Adjustment of the contract value and final account		
35	Sub-clause 26.1 has been amended to include the following:  Contract Instructions  Instructions given by the Employer's agents in relation to the contract works, shall, irrespective of the format or wording of such instructions, not indicate that the work involved represents an extra or variation and shall not be deemed to be acceptance of any prices or quotations contained in any correspondence  It is recorded that only the quantity surveyor where appointed by the employer for quantity surveying services is empowered, to rule whether any instructions issued constitutes an extra or not and, to resolve cost aspects of any matter pertaining to this contract		
	F:..... V:..... T:.....	Item	
36	Clause 27.0 - Recovery of expense and/or loss		
	F:..... V:..... T:.....	Item	
<b><u>Suspension and termination (A28 - A29)</u></b>			
37	Clause 28.0 - Suspension by the contractor		
	F:..... V:..... T:.....	Item	
38	Clause 29.0 - Termination		
	F:..... V:..... T:.....	Item	
<b><u>Dispute resolution (A30)</u></b>			
39	Clause 30.0 - Dispute resolution		
	F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 Bill No. 1 Preliminaries			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R
40	<p><u>Agreement</u></p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F:..... V:..... T:.....</p>		Item	
41	<p><u>Contract data</u></p> <p>Tenderer's selections</p> <p>Before submission of his Tender the contractor is to complete the Tenderer's selections in the contract data</p> <p>F:..... V:..... T:.....</p>		Item	
		<b>Carried Forward</b>		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<b><u>SECTION B: GENERAL PRELIMINARIES</u></b>			
<b><u>Definitions and interpretation (B1)</u></b>			
42	Clause 1.1 - Definitions  F:..... V:..... T:.....	Item	
43	Clause 1.2 - Interpretation  F:..... V:..... T:.....	Item	
<b><u>Documents (B2)</u></b>			
44	Clause 2.1 - Checking of documents  Sub-clause 2.1 refers – the following is to be added after the words “written directive”:  The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the General Preambles for Trades 2017 as recommended and published by the Association of South African Quantity Surveyors, 2017 edition, and no claim arising from brevity of description of items fully described in the said General Preambles for Trades 2017 and Supplementary documentation will be entertained. Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc  F:..... V:..... T:.....	Item	
45	Clause 2.2 - Provisional bills of quantities  F:..... V:..... T:.....	Item	
46	Clause 2.3 - Availability of construction information  F:..... V:..... T:.....	Item	
47	Clause 2.4 - Ordering of materials and goods  F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 Bill No. 1 Preliminaries			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<b><u>Previous work and adjoining properties (B3)</u></b>			
48	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
49	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
50	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item	
<b><u>The site (B4)</u></b>			
51	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item	
52	Clause 4.2 - Enclosure of the works F:..... V:..... T:.....	Item	
53	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item	
54	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item	
55	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....	Item	
56	Clause 4.6 - Services - known  The contractor shall consult the Principal Agent before disconnecting any services. The contractor shall take special care not to damage any existing services that could have been foreseen or what have been shown to him by the Principal Agent. Damage to this services shall be for the contractor's account		
<b>Carried Forward</b>			R
Section No. 1 Bill No. 1 Preliminaries			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	F:..... V:..... T:.....	Item	
	<b><u>Management of contract (B5)</u></b>		
57	Clause 5.1 - Management of the works		
	F:..... V:..... T:.....	Item	
58	Clause 5.2 - Progress meetings		
	F:..... V:..... T:.....	Item	
59	Clause 5.3 - Technical meetings		
	F:..... V:..... T:.....	Item	
60	Clause 5 has been amended to include the following new sub-clause:  Sub-clause 5.4 - Daily records  The contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site  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  At the end of each week the contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works		
	F:..... V:..... T:.....	Item	
	<b>Carried Forward</b>		R
	Section No. 1 Bill No. 1 Preliminaries		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	<p><b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b></p>		
61	<p>Clause 6.1 - Samples of materials</p> <p>All material samples and colour samples must be submitted to the Principal Agent for selections and approval of the colour, shape and finish including mechanical, electrical and plumbing equipment that will be visible. The samples shall be provided in A4 size unless otherwise agreed. General samples shall be provided for Principal Agent/Employer to choose from each type of finish</p> <p>The Principal Agent/Employer may reject all or part of the submitted samples and request for additional selections if the first submission are not acceptable</p> <p>All samples must be kept in a sample room to be provided by the contractor for reference</p> <p>Sample Board:</p> <p>The contractor shall provide a board(s) of approved samples and make available one set at the site (sample room) and one for the Employer</p> <p>F:..... V:..... T:.....</p>	Item	
62	<p>Clause 6.2 - Workmanship samples</p> <p>Sub-clause 6.2 has been amended to include the following:</p> <p>The contractor shall provide a mock-up of all finished surfaces prior to commencement of the relevant work. The contractor shall only be permitted to commence with the relevant scope of work, on approval of the mock-up by the Principal Agent or its designated representative</p> <p>F:..... V:..... T:.....</p>	Item	
63	<p>Clause 6.3 - Shop drawings</p>		
<b>Carried Forward</b>			R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
64	<p>Sub-clause 6.3 refers – the following is to be added after the words 'and/or approval'</p> <p>Shop drawings shall be submitted to the principal agents for approval at least ten (10) working days weeks prior to the date on which such approval is required in order to comply with the programme</p> <p>All submissions shall be prepared in accordance with the contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non compliance with drawings, specifications and/or Principal Agent's instruction shall not constitute grounds for any claims for delay, extension of time and the like</p> <p>The contractor shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work</p> <p>Should the contractor, sub-contractor, supplier or manufacturer be of the opinion that corrections to shop drawings made by the Principal Agent, constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Principal Agent's directive</p>		
65	<p>Sub-clause 6.3.1 has been amended as follows:</p> <p>Replace the words "two (2) copies" with "four (4) copies" under bullet point number 6</p> <p>F:..... V:..... T:.....</p>	Item	
66	<p>Clause 6.4 - Compliance with manufacturer's instructions</p> <p>F:..... V:..... T:.....</p>	Item	
<b><u>Deposits and fees (B7)</u></b>			
67	<p>Clause 7.1 - Deposits and fees</p> <p>F:..... V:..... T:.....</p>	Item	
<b><u>Temporary services (B8)</u></b>			
68	<p>Clause 8.1 - Water</p>		
<b>Carried Forward</b>			R
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	F:..... V:..... T:.....	Item	
69	Clause 8.2 - Electricity		
	F:..... V:..... T:.....	Item	
70	Clause 8.3 - Ablution and welfare facilities		
	F:..... V:..... T:.....	Item	
71	Clause 8.4 - Communication facilities		
	F:..... V:..... T:.....	Item	
	<b><u>Prime cost amounts (B9)</u></b>		
72	Clause 9.1 - Responsibility for prime cost amounts		
	F:..... V:..... T:.....	Item	
	<b><u>Attendance on subcontractors (B10)</u></b>		
73	Clause 10.1 - General attendance		
	F:..... V:..... T:.....	Item	
74	Clause 10.2 - Special attendance		
	Sub-clause 10.2 has been amended to include the following:  The Tenderer shall examine all drawings and information pertaining to the works as a whole and shall provide all necessary special attendance resources required for the due and proper execution and completion of all sub-contract works		
	F:..... V:..... T:.....	Item	
	<b><u>General (B11)</u></b>		
75	Clause 11.1 - Protection of the works		
	F:..... V:..... T:.....	Item	
76	Clause 11.2 - Protection/isolation of existing works and works occupied in sections		
	<b>Carried Forward</b>		R
	Section No. 1 Bill No. 1 Preliminaries		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	F:..... V:..... T:.....	Item	
77	Clause 11.3 - Security of the works		
	F:..... V:..... T:.....	Item	
78	Clause 11.4 - Notice before covering work		
	F:..... V:..... T:.....	Item	
79	Clause 11.5 - Disturbance		
	F:..... V:..... T:.....	Item	
80	Clause 11.6 - Environmental disturbance		
	F:..... V:..... T:.....	Item	
81	Clause 11.7 - Works cleaning and clearing		
	Disposal of Waste Material, etc.		
	The contractor shall provide appropriate equipment (such as chutes, if required), etc., for the rapid removal of waste material, etc., at points as agreed with the Principal Agent in writing. In addition, the contractor is to provide for adequate waste skips for the disposal of such material to be located in positions as advised by the Principal Agent in writing		
	The contractor shall ensure that there is a maximum of a twenty four (24) hour turn-around time for the removal of all full waste skips from site. The contractor further acknowledges that the Employer reserves the right to appoint others to remove waste material and waste skips from site, should the contractor fail to meet the twenty four (24) hour turn-around time and that such costs shall be deducted from amounts due to the contractor		
	F:..... V:..... T:.....	Item	
82	Clause 11.8 - Vermin		
	F:..... V:..... T:.....	Item	
83	Clause 11.9 - Overhand work		
	F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
	Section No. 1 Bill No. 1 Preliminaries		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>		R	
84	Clause 11.10 - Tenant installations F:..... V:..... T:.....	Item		
85	Clause 11.11 - Advertising F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 Preliminaries			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>		R	
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>			
86	<p><b>Health and Safety</b></p> <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (annexed to these bills of quantities) and that the Employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]</p> <p>The contractor shall:</p> <ol style="list-style-type: none"> <li>1. Comply with the health and safety specification for the works</li> <li>2. Prepare and agree with the health and safety consultant the health and safety plan for the works</li> <li>3. Cooperate with the health and safety consultant in all respects</li> <li>4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification</li> <li>5. Conform to the conditions contained in the Employer's health and safety specification</li> <li>6. The contractor shall price section D of the preliminaries and allow opposite each item for all costs associated in connection with the health and safety specification</li> </ol> <p>F:..... V:..... T:.....</p>	Item		
87	<p><b>As Built Drawings</b></p> <p>The contractor shall accurately record the details of the electrical, mechanical, security, fire installation, water reticulation details, construction breaks, etc., on drawings and issue same to the Principal Agent and the relevant agent for record purposes</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 Preliminaries</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R	
88	<p><b>Personal Protective Equipment</b></p> <p>The contractor shall provide and keep on site an adequate supply of clean safety helmets and reflective vests for the use of all professional personnel and all authorised visitors</p> <p>F:..... V:..... T:.....</p>		Item		
89	<p><b>Site Access for and Management of Direct Contracts</b></p> <p>The contractor shall allow direct contractors appointed by the Employer to access the site to execute work which does not form part of the Principal Building Agreement, concurrently with that of its (the principal building contractor), work. In this regard, the contractor shall provide any necessary assistance (e.g. ensuring placement of material orders, monitoring the manufacturing process, monitoring of raw materials availability, programming of works, etc.), to the principal agent in respect of management of any direct contracts.</p> <p>In this regard, is shall be deemed that all allowances have been made in the contract amount to ensure compliance with this clause</p> <p>F:..... V:..... T:.....</p>		Item		
90	<p><b>Precontract Engagement</b></p> <p>Contractors shall be engaged prior to issuance of site possession to facilitate all necessary precontract work which shall include the construction work permit application, procurement of specialist sub-contractors, finalisation of contract and any design coordination between the contractor and the professional team. Contractors will be required to make the necessary allowances for such work during this period as no claims for additional preliminaries will be entertained</p> <p>F:..... V:..... T:.....</p>		Item		
91	<p><b>Community Liaison Officer (CLO)</b></p> <p>Allow a value of R60 000.00 (R 7 500.00 per month) for a salary of a CLO inclusive of a cell phone and laptop allowance.</p>		Item		60,000.00
<b><u>Contract Provisions</u></b>					
92	<p>Tender Data Schedule</p> <p>F:..... V:..... T:.....</p>		Item		
		<b>Carried Forward</b>		R	
<p>Section No. 1 Bill No. 1 Preliminaries</p>					

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
93	General Conditions of Contract F:..... V:..... T:.....	Item	
94	Special Conditions of Contract F:..... V:..... T:.....	Item	
95	Contract Data F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 Bill No. 1 Preliminaries			



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO 1</u></b>			
	<b><u>ALTERATIONS AND DEMOLITIONS (PROVISIONAL)</u></b>			
	<b><u>ALTERATIONS</u></b>			
	<b><u>REMOVAL OF EXISTING WORK</u></b>			
	<b><u>Breaking down and removing brickwork etc</u></b>			
1	Half brick wall	m2	168	
2	One brick wall	m2	114	
	<b><u>Taking out and removing doors, windows, etc from brickwork to be demolished</u></b>			
3	Timber single door and frame not exceeding 2,5m2	No	15	
4	Timber double door and frame exceeding 2.5m2 and not exceeding 5m2	No	5	
	<b><u>Taking out and removing doors, windows, including thresholds, sills, etc from one brick walls and building up openings in brick walls including making good face brickwork (PC R 8 000/1000 bricks), including all pointing and jointing to match existing on outer face of wall and prepare internal face of wall for new wall finishes (elsewhere measured)</u></b>			
5	Timber single door and frame not exceeding 2,5m2	No	7	
6	Glazed steel window 800 x 425mm high from external brick wall	No	9	
7	Glazed steel window 1 880 x 4 717mm high from external brick wall	No	6	
8	Glazed shop front and gate overall size 4 043 x 3 000mm high from external brick wall	No	2	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 1 Alterations and Demolitions (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
<b><u>Taking up and removing vinyl floor coverings, carpeting, etc</u></b>			
9	Various floor coverings including preparing screed for new floor coverings	m2	531
10	Various skirting including making good walls where skirting has been lifted	m	301
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u></b>			
11	Internal plaster from walls and columns	m2	365
12	Internal marmoran from walls and columns	m2	575
<b><u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u></b>			
13	Tiles to treads and risers of stairs	m2	14
14	Tiles to walls	m2	369
<b><u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>			
15	Vitreous china wash hand basin	No	8
16	Vitreous china WC pan with cistern	No	10
17	Vitreous china wall hung urinal with flush valve	No	4
18	Soap dispensers	No	8
19	Toilet roll holders	No	10
<b><u>Taking out/off and removing sundry metalwork</u></b>			
20	Steel burglar proofing with framing 1 500 x 3 000mm high bolted to brickwork and making good face brickwork (PC R 8000/1000 bricks)	No	1
<b>Carried Forward</b>			R
Section No. 2 Bill No. 1 Alterations and Demolitions (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R		
21	Steel burglar proofing with framing 1 880 x 4 717mm high bolted to brickwork and making good face brickwork (PC R 8 000/1000 bricks)	No	4		
22	Removal of fire hose reels and preparation for new	No	5		
<b><u>BUILDING UP OPENINGS</u></b>					
<b><u>Brickwork in NFP bricks in class II mortar in building up openings in one brick wall including plaster and paint on internal face and face brick to match existing on outer face</u></b>					
23	One brick walls	m2	86		
<b><u>Sundries</u></b>					
24	Cutting toothings and bonding new brickwork to existing	m2	22		
<b><u>Facebrick to match existing (PC R8 000/1 000 bricks), face bricks pointed with recessed horizontal and vertical joints</u></b>					
25	Extra over brickwork for face brickwork in patches	m2	86		
26	Cutting toothings and bonding new face brickwork to existing	m	36		
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>					
27	Making good defects in existing screeded floors with "Pavelite"	m2	531		
<b><u>MAKING GOOD OF FINISHES ETC</u></b>					
<b><u>Making good internal two coat plaster with gypsum finish</u></b>					
28	Walls in patches	m2	852		
<b><u>BUDGETARY ALLOWANCES</u></b>					
29	Allow the sum of R 200 000.00 for alterations to the existing roof			Item	200,000.00
30	Allow the sum of R 150 000.00 for sundry alterations			Item	150,000.00
<b>Carried Forward</b>				R	
Section No. 2 Bill No. 1 Alterations and Demolitions (Provisional)					

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R	
31	Allow the sum of R 100 000.00 for the servicing and repair of all damaged windows and ironmongery	Item		100,000.00
32	Allow the sum of R 50 000.00 for the relocation of an existing fire hydrant	Item		50,000.00
33	Allow the sum of R 30 000.00 for the demolition of entrance canopies	Item		30,000.00
34	Allow the sum of R 25 000.00 for sundry alterations to existing water supply	Item		25,000.00
35	Allow the sum of R 15 000.00 for the servicing and repairing of safe door	Item		15,000.00
36	Allow the sum of R 10 000.00 for the repair of existing waterproofing	Item		10,000.00
37	Allow the sum of R 5 000.00 for the removal and relocation of the existing steel cat ladder	Item		5,000.00
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section No. 2				
Bill No. 1				
Alterations and Demolitions (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard un weathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p>Prices for filling are to include for all necessary density and other tests</p> <p><b><u>EXCAVATION, FILLING, ETC</u></b></p> <p><b><u>EXCAVATIONS ETC</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 Bill No. 2 Earthworks (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<u>Excavation in earth not exceeding 2m deep</u>				
1	Holes	m3	10	
<u>Extra over bulk excavations in earth for excavation in</u>				
2	Soft rock	m3	1.00	
3	Hard rock	m3	0.50	
<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	4	
<u>Risk of collapse of excavations</u>				
5	Sides of trenches and holes exceeding 1,5m deep	m2	25	
<u>Keeping excavations free of water</u>				
6	Keeping excavations free of all water other than subterranean water		Item	
<b><u>FILLING ETC</u></b>				
<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site, and spread, level, water and compact to 93% Mod AASHTO density</u>				
7	Backfilling to trenches, holes, etc	m3	6	
<b><u>WEED KILLERS, INSECTICIDES, ETC</u></b>				
<u>Soil insecticide in accordance with SANS 5859</u>				
8	To bottoms and sides of trenches, etc	m2	31	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 2				
Earthworks (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<p>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"</p>			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>Concrete blinding</u>			
1	Blinding layer under concrete bases	m3	0.11
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>25MPa concrete</u>			
2	Bases	m3	1.94
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>			
<u>25MPa concrete</u>			
3	In-fill slabs	m3	4.69
<u>30MPa concrete</u>			
4	Concrete plinths	m3	1.38
<b><u>TEST CUBES</u></b>			
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	25
<b><u>CONCRETE SUNDRIES</u></b>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
6	Surface beds, slabs, etc	m2	22
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<u>Coring through existing 255mm thick slabs</u>				
7	50mm diameter core through existing slab	No	2	
8	75mm diameter core through existing slab	No	2	
9	125mm diameter core through existing slab	No	4	
<b><u>ROUGH FORMWORK</u></b>				
<u>Rough formwork to sides</u>				
10	Sides of plinths	m2	15	
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
<u>Smooth formwork to soffits</u>				
11	Slabs	m2	22	
<b><u>MOVEMENT JOINTS ETC</u></b>				
<u>Expansion joints with 10mm deep x 10mm wide "Dow Corning 813C" silicone or equivalent and equally approved sealant on 10mm thick polystyrene backing</u>				
12	Not exceeding 300mm high to edges of in-fill slab	m	36	
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
<u>High tensile steel reinforcement to structural concrete work</u>				
13	Bars of varying diameters	t	1.40	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 3				
Concrete, Formwork and Reinforcement (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO 4</u></b>			
	<b><u>MASONRY (PROVISIONAL)</u></b>			
	<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.			
	<b><u>BRICKWORK</u></b>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<b><u>BRICKWORK</u></b>			
	<b><u>SUPERSTRUCTURE</u></b>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls	m2	340	
2	One brick walls	m2	579	
	<u>Special shaped bricks</u>			
3	Extra over brickwork for 45 degree squint bricks in half brick walls	No	68	
	<b><u>BRICKWORK SUNDRIES</u></b>			
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 4 Masonry (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<u>Joint forming material in movement joints</u>			
4	10mm Wide polystyrene spacer strip at wall connections	m	101
<u>Brickwork reinforcement</u>			
5	30mm Wide x 1.2mm thick galvanised steel strap built into brickwork every third course, fixed with "Hilti" drive pin or equivalent and equally approved shot fired into reinforced concrete column	m	229
<u>2,5mm Galvanised brick reinforcement</u>			
6	75mm Wide reinforcement built in horizontally	m	1,375
7	150mm Wide reinforcement built in horizontally	m	2,342
<u>Pre stressed fabricated concrete lintels including necessary temporary supports</u>			
8	Pair of 100 x 70mm lintels in lengths not exceeding 3m	m	126
<b><u>FACE BRICKWORK</u></b>			
<u>Face brick to match existing (PC R8 000/1 000 bricks), face bricks pointed with recessed horizontal and vertical joints</u>			
9	Extra over brickwork for face brickwork	m2	219
<u>Special shaped face bricks</u>			
10	Extra over face brickwork for single cant solid brick sill	m	2.4
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No. 2			
Bill No. 4			
Masonry (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 2</u></b>				
<b><u>BILL NO 5</u></b>				
<b><u>WATERPROOFING (PROVISIONAL)</u></b>				
<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
<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				
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<u>One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>				
1	In walls	m2	81	
<u>Cementitious waterproofing system (suitable for tiling) comprising patching defects with polymer modified flexible (PMF) waterproofing slurry and three full coats PMF waterproofing slurry applied with a brush to a final dry film thickness of 2 to 3mm</u>				
2	On shower floors	m2	1	
<b><u>WATERPROOFING TO WALLS, ETC</u></b>				
<u>Three coats of flexible waterproofing slurry applied to walls</u>				
3	5mm Thick on walls	m2	8	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2 Bill No. 5 Waterproofing (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO 6</u></b>			
	<b><u>ROOF COVERINGS, CLADDINGS, ETC (PROVISIONAL)</u></b>			
	<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<u>0,55mm thick. 'Klip-Tite Zinca / Colourplus AZ150' roof sheeting or equivalent and equally approved in single lengths, industrially coated on both sides, fixed to steel structure</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	53	
	<u>0,58mm Chromadek IBR GSM 890 hot dipped galvanised steel sheet accessories to preceding roof coverings, industrially coated on both sides</u>			
2	Head wall flashings 600mm girth	m	23	
3	Cover flashings 155mm girth	m	23	
4	Drip flashing 130mm girth	m	21	
	<b><u>ROOF INSULATION</u></b>			
5	Glass wool insulation to be laid according to the drawing and fixed with cable stays with minimum 25mm air gap from roof. Total minimum R-value of insulation to be 2.85 (30% of roof area allowed)	m2	428	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 6 Roof Covering, Cladding, etc. (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 7</u></b></p> <p><b><u>CARPENTRY AND JOINERY (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Decorative thermosetting plastic laminate covering</u></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>SKIRTINGS</u></b></p> <p><u>Locally produced natural hardwood timber skirting bull nose edging cut to size and fitted as per installer specification. All corners to receive 45° mitre to create tight fit at corners. Painted black to match shop front and to prevent against water damage (paint elsewhere measured).</u></p>			
1	100mm Skirting	m	882	
	<p><b><u>DOORS ETC</u></b></p> <p><u>Single Solid hardwood core timber doors with masonite flush panels</u></p>			
2	TD-01 Size: 813 x 2 032mm high door	No	2	
3	TD-05 Size: 813 x 2 032mm high door	No	4	
	<b>Carried Forward</b>			R
	<p>Section No. 2 Bill No. 7 Carpentry and Joinery (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
4	TD-06 Size: 762 x 2 032mm high door	No	1	
5	TD-10 Size: 813 x 2 032mm high door	No	5	
	<u>Single Semi-solid core timber doors with masonite flush panels</u>			
6	TD-02 Size: 762 x 1 900mm high door	No	4	
7	Extra over for undercutting doors	No	4	
	<u>Solid Core unequal leaf double door with masonite flush panels</u>			
8	TD-07 Size: 1 360 x 2 032mm high door	No	1	
	<b><u>FIRE DOORS</u></b>			
	<u>"Bitcon Class B" fire door or equivalent and equally approved including 1.6mm double rebated pressed steel frames</u>			
9	FD-01 Overall size: 813 x 2 032mm high door	No	4	
10	FD-02 Overall size: 925 x 2 032mm high door	No	3	
	<b><u>SPECIAL DOORS</u></b>			
	<u>44dB Purpose made acoustic single hardwood timber door</u>			
11	TD-09 Size: 813 x 2 032mm high door	No	1	
12	Extra over for cutting out 300 x 500mm high viewing panels (viewing panels elsewhere measured)	No	1	
	<u>44dB Purpose made acoustic unequal leaf double hardwood timber door</u>			
13	TD-08 Size: 1 360 x 2 100mm high door	No	6	
14	Extra over for cutting out 300 x 500mm high viewing panels (viewing panels elsewhere measured)	No	6	
	<u>Acoustically insulated composite panel purpose made folding / stacking doors for simultaneous presentations.</u>			
15	FS-01 Overall size: 6 040 x 2 250mm high door	No	1	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 7 Carpentry and Joinery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
16	FS-02 Overall size: 1 700 x 2 250mm high door	No	1
17	FS-03 Overall size: 4 815 x 2 600mm high door	No	1
<b><u>CUPBOARDS TO KITCHENS, SCULLERY, ETC.</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>General</u></b>			
<p>The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p>			
<b><u>References</u></b>			
References given in descriptions refer to the respective types of fittings detailed on the architect's drawing accompanying these bills of quantities for tender purposes			
<b><u>"Novalam MDF" Kitchen cupboards or equivalent and equally approved with hinges, handles and telescopic drawer slides, as detailed on Architectural drawing No. 320-01 and 320-02</u></b>			
18	L-shaped kitchen wall cupboard with "Hanex S.008 N-White" or equivalent and equally approved acrylic counter top to suit overall size, 1 945 x 2 970 x 900mm high including all cut-outs, etc.	No	1
19	L-shaped kitchen wall cupboard with "Hanex S.008 N-White" or equivalent and equally approved acrylic counter top to suit overall size, 2 970 x 3 826 x 900mm high including all cut-outs, etc.	No	1
20	Rectangular shaped Kitchen wall cupboard with "Hanex S.008 N-White" or equivalent and equally approved acrylic counter top to suit overall size, 1 135 x 600 x 900mm high including all cut-outs, etc.	No	1
<b>Carried Forward</b>			R
Section No. 2 Bill No. 7 Carpentry and Joinery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R	
21	Rectangular shaped Pause area wall cupboard with "Hanex S.008 N-White" or equivalent and equally approved acrylic counter top to suit overall size, 2 733 x 600 x 900mm high including all cut-outs, etc.	No	1		
22	Rectangular shaped Scullery wall cupboard with "Hanex S.008 N-White" or equivalent and equally approved acrylic counter top to suit overall size, 2 219 x 595 x 900mm high including all cut-outs, etc.	No	1		
	<u>Vanity basins and recessed counters, top made from "Hanex P-004 Solaris" and base made from "Hanex D-028 Blackbeat" or equivalent and equally approved as detailed on Architectural drawing No. 320-01 and 320-02</u>				
23	Vanity counter overall size 1 485 x 500 x 870mm high including all cut-outs, etc.	No	1		
	<b><u>BUDGETARY ALLOWANCES</u></b>				
24	Allow the sum of R 25 000.00 for the supply and installation of serving counters		Item		25,000.00
25	Allow the sum of R 25 000.00 for the supply and installation of shelving to storerooms		Item		25,000.00
	<b>Carried Forward to Summary of Section No. 2</b>			R	
	Section No. 2				
	Bill No. 7				
	Carpentry and Joinery (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 8</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p> <p>Rates for the applicable items contained in this bill are to allow for all necessary "scaffolding and special scaffolding" for the works to be carried out at all levels and heights as required on site.</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><b><u>SUSPENDED CEILINGS</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><b><u>Flush plastered skim ceilings</u></b></p> <p>Ceilings shall comprise 12mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><b><u>Flush plastered gypsum plasterboard suspended bulkheads</u></b></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p> <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring (Provisional)</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
	<p><b><u>"AMF Topic with Econogrid" or other equivalent and equivalent and equally approved ceiling tiles, colour white, size 600 x 600mm, laid on suspension system. Ceilings to be installed by an approved specialist and in accordance with the manufacturer's recommendations</u></b></p>		
1	Ceilings suspended not exceeding 1m below concrete soffits	m2	35
	<p><b><u>"Knauf AMF Thermatex Alpha Accoustic" or other equivalent and equivalent and equally approved ceiling tiles, colour white, size 600 x 600mm, laid on suspension system. Ceilings to be installed by an approved specialist and in accordance with the manufacturer's recommendations</u></b></p>		
2	Ceilings suspended not exceeding 1m below concrete soffits	m2	782
	<p><b><u>9.5mm thick gypsum plasterboard ceiling system suspended on a suspension grid system. All joints to be covered with fibre tape and the entire surface plastered with 3mm to 6mm thick skimming plaster.</u></b></p>		
3	Ceilings suspended not exceeding 1m below concrete soffits	m2	456
4	Vertical portion of bulkheads 50mm high, suspended not exceeding 1m below concrete soffits	m	274
5	Vertical portion of bulkheads 100mm high, suspended not exceeding 1m below concrete soffits	m	114
6	Vertical portion of bulkheads 200mm high, suspended not exceeding 1m below concrete soffits	m	20
	<p><b><u>9.5mm thick gypsum plasterboard ceiling system suspended on a suspension grid system. All joints to be covered with fibre tape and the entire surface plastered with 3mm to 6mm thick skimming plaster.</u></b></p>		
7	Vertical portion of bulkheads 420mm high, suspended not exceeding 1m below concrete soffits	m	33
	<p><b><u>Acoustic insulation material by specialist in bulkhead above folding / stacking doors</u></b></p>		
8	Accoustic insulation	m2	66
<b>Carried Forward</b>			R
<p>Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
<b><u>PARTITIONS, ETC</u></b>				
<b><u>FIXED PARTITIONS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Gypsum drywall partition systems</u></b>				
Partitions consisting of 63mm "Ultra Drywall" steel studs inserted at 600mm centres into 63mm "Ultrasteel Drywall" steel track at top and bottom clad on both sides as described, including additional studs as necessary at abutments, ends, etc. Boards shall be fixed in strict accordance with the manufacturer's instructions and all joints shall be taped and jointed				
Unless otherwise described rates for partitions shall be deemed to include for standard flat section aluminium skirting on both sides				
Wall paper and/or paint and varnish finishes are given elsewhere				
<b><u>Standard drywall to u/side ceiling tiles or flush plaster. Standard width 89mm wide single skin Half hour fire rated drywall partition Consisting of 63,5mm galvanised drywall steel Studs inserted @ 600mm centres into 63,5mm Steel top and bottom track, and Clad both sides with 1 layer 12,5mm taper edge Gypsum board fixed with 25mm drywall screws Spaced at 220mm centres. All joints to be taped and joined according to manufacturer's Specifications. All external corners to receive 0,6mm galvanised steel corner bead. All Drywalls to be skimmed, sanded and finished Sufficiently in order to receive washable matt Acrylic PVA paint (paint elsewhere measured).</u></b>				
9	Partitions 2 805mm high with bottom track plugged and top track fixed to suspended ceiling tees	m	256	
10	Extra over partition 2 805mm high for vertical abutment	No	45	
11	Extra over partition 2 805mm high for corner	No	16	
12	Extra over partition 2 805mm high for T-intersection	No	30	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
13	Extra over partition 2 805mm high for fair end	No	6
14	Partitions 1 800mm high with bottom track plugged and top track fixed to suspended ceiling tees	m	8
15	Extra over partition 1 800mm high for vertical abutment	No	1
16	Extra over partition 1 800mm high for corner	No	2
17	Extra over partition 1 800mm high for fair end	No	1
	<p><b><u>2-hour fire rated rhino board drywalling to run to slab above ceiling, to be closed off below floor and under &amp; above door to create a sealed unit. Sound reduction index 51 cbo. Approximate Mass to be 50kg per square meters. Wall Thickness to be 115mm wide for two hour fire Rated drywall partition consisting of 63,5mm Drywall Ultrasteel studs spaced at 600mm Centres into 63,5mm Ultrasteel top and bottom Track and clad both sides with a base layer 12,5mm thick taper edge rhino-firestop fixed with 25mm screws spaced at 220mm centres apply a Sheet of 0.5mm galvanized steel to each side &amp; Apply a face layer of 12,5mm taper edge rhino firestop To both sides. Staggering all joints Using 41mm drywall screws spaced at 220mm Centres tape and joint according to data sheet (standard clauses for specifiers: drywall Systems) for hand jointing application. All Drywalls to be skimmed and finished sufficiently in order to receive washable matt acrylic PVA Paint all service penetrations to drywall to be Fire stopped in accordance with sabs standards</u></b></p>		
18	Partitions 2 805mm high with bottom and top tracks plugged	m	13
19	Extra over partition 2 805mm high for vertical abutment	No	2
20	Extra over partition 2 805mm high for corner	No	2
	<p><b><u>"AMF Shadowline cornices Code: C-SRW 25 OEA" or similar approved fixed as per manufacturer's instruction</u></b></p>		
21	25 x 25mm Aluminium trim	m	2,289
	<p><b>Carried Forward to Summary of Section No. 2</b></p>		
	<p>Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring (Provisional)</p>		
			R

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 9</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LININGS, ETC (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p><b><u>NOTE:</u></b></p> <p>Prior to the laying of the vinyl sheet flooring the screeded substrate shall be thoroughly checked for levelness, imperfections, etc., as no claim will be entertained should the floor be deemed to be uneven in appearance by the Architect or Client</p> <p>Rates for floor coverings must include for fixing, adhesive, wastage, profit, etc</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing</u></b></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><b><u>FLOOR COVERINGS</u></b></p> <p><b><u>Bergvik fully adjustable raised access flooring tiles colour Granite (Colour code: M335) or equivalent and equally approved, size 600 x 600mm x 38mm thick</u></b></p>			
1	On floors	m2	21	
	<p><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 9 Floor Coverings, Wall Linings, etc. (Provisional)</p>		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
2	<u>"Belgotex floors Atlantis colour Clear Bubbles" or equivalent and equally approved carpet tiles, size 500 x 500mm installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings</u> On floors	m2	865
3	<u>"Belgotex floors Berber Point colour Gridlock" or equivalent and equally approved carpet tiles, size 500 x 500mm installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings</u> On floors	m2	180
4	<u>"Belgotex floors Natural Bark colour Knots" or equivalent and equally approved carpet tiles, size 500 x 500mm installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings</u> On floors	m2	80
<b><u>SCREEDS</u></b>			
5	<u>"Tal Screedmaster" or other equivalent and equivalent and equally approved</u> 5mm thick self levelling screed on floors and landings	m2	1,125
<b><u>SUNDRIES</u></b>			
<b><u>Aluminium transition strips</u></b>			
6	Natural anodised aluminium carpet gripper, adjustable ramp edge transition strip fixed to substrate with general-purpose metal adhesive	m	15
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No. 2			
Bill No. 9			
Floor Coverings, Wall Linings, etc. (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO 10</u></b>			
	<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<b><u>Supply and install all Ironmongery items by "dormakaba" or equivalent and equally approved manufacturer</u></b>			
	<u>Locks, indicator bolts, etc.</u>			
1	43mm Five pin euro-profile single cylinder master keyed. Code: DSC104301 MK (43mm)	No	6	
2	66mm Five pin euro-profile double cylinder master keyed. Code DDC106601 MK (66mm)	No	57	
3	153mm Manual flush bolt with heel. Code: DFB-SC-180	No	1	
4	305mm Manual flush bolt with heel. Code: DFB-SC-181	No	1	
5	Bathroom deadlock. Code: D032D SS	No	4	
6	Bathroom WC indicator (Red and White) and turn knob. Code: DWC-005	Sets	4.0	
7	Cylinder deadlock. Code: D037D SS	No	7	
8	Cylinder sash lock. Code: D036S SS	No	12	
9	Exterior access lock with lever handle. Code: PHT3901	No	3	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 10 Ironmongery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
10	Narrow stile heavy duty swivel dead lock. Code: D07735 SS	No	3	
11	Narrow stile heavy duty swivel sash lock. Code: D07635 SS	No	29	
12	Narrow stile roller dead lock. Code D02835 SS	No	9	
13	Rebate conversion kit for euro profile locks D036S, D037D. Code: D038R NP	No	1	
14	Single electromagnetic lock with 600 lbf (2669 N) holding force, surface-mounted, with lock status sensor and red/green LED indicator (19860501). Code: EMC 600 ALH	Sets	14.0	
15	L+Z Bracket for single electromagnetic lock EMC 600 ALH (19860524). Code: L+Z Bracket 600	Sets	14.0	
16	Two point locking panic bar for single door. Door leaf 1000mm wide x 2270mm high (2201. 2104. PHX02. PHX04). Code: PHA2 S SD	Sets	3.0	
	<u>Handles</u>			
17	325 x 25mm Straight tubular pull handle. Code: DPH301A BTB	Pairs	4.0	
18	382 x 32mm D-Shaped Offset Tubular Pull Handle. Code: DPH215 BTB	Pairs	16.0	
19	DPH301C Pull Handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 stainless steel plate with no cylinder cut-out. Code: DHP-430-BL-SF 75X170	No	4	
20	DPH301C Pull Handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 stainless steel plate with no cylinder cut-out. Code: DHP-430-BL-SF 150X300	No	3	
21	Lever handle on narrow stile rose with narrow stile cylinder escutcheons. Code: TH122 NS Cyl S.S	Sets	29.0	
22	Lever handle on rose with cylinder escutcheons. Code: TH122 Cyl S.S	Sets	12.0	
	<u>Escutcheon plates</u>			
23	Narrow Stile Cylinder escutcheon. Code: DCE-105 S.S	Pairs	12.0	
24	Round cylinder escutcheon. Code: DCE-002 S.S	Pairs	4.0	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 10 Ironmongery (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<u>Door closers, etc.</u>			
25	EN 2-4 Concealed in the door closer. Code: ITS962-4 NHO	Sets	6.0
26	Non-hold open cam action slide channel door closer. Max door width 950mm. Closing Force EN 3. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing. Door closer compliant with EN 1154. Door closer is "Certi fire" approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240. Certified manufacturer to ISO 9001. Code: TS91B - SL	No	7
27	Non-hold open cam action slide channel door closer. Max door width 950mm. Closing Force EN 2-4V. Adjustable strength. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing. (Angle bracket included). Door closer compliant with EN 1154. Door closer is "Certi fire" approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240. Certified manufacturer to ISO 9001. Code: TS92G - AB -SL	Sets	3.0
<u>Door signage, kick plates, etc.</u>			
28	150 x 150mm "Female" sign. Code: DSS-131 F	No	1
29	150 x 150mm "Male" sign. Code: DSS-130 M	No	1
30	100 x 75mm High information signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts, finished with stainless steel end caps to brick walls	No	2
31	170 x 75mm High door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to drywall partitions	No	21
32	170 x 75mm High timber door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts, finished with stainless steel end caps to timber door	No	13
<b>Carried Forward</b>			R
Section No. 2 Bill No. 10 Ironmongery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
33	170 x 120mm High door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to drywall partitions	No	21
34	170 x 200mm High door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to drywall partitions	No	21
35	170 x 200mm High timber door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to timber door	No	14
36	500 x 170mm High information signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts, finished with stainless steel end caps to brick walls	No	6
37	200 x 813 x 1.2mm Thick Grade 430 stainless steel kick plate. Code: DKP-430-SF 200	No	3
38	75 x 170 x 1.2mm Thick Grade 430 stainless steel plate. Code: DPP-430-BL-SF 75X170	No	4
39	150 x 300 x 1.2mm Thick Grade 430 stainless steel plate with cylinder cut-out left. Code: DPP-430-CL-SF 150X300	No	1
40	150 x 300 x 1.2mm Thick Grade 430 stainless steel plate with cylinder cut-out right. Code: DPP-430-CR-SF 150X300	No	2
41	300 x 813 x 1.2mm Thick Grade 430 stainless steel kick plate. Code: DKP-430-SF 300	No	20
42	900 x 813 x 1.2mm Thick Grade 430 stainless steel kick plate. Code: DKP-430-SF 900	No	4
	<u>Sundries</u>		
43	Cabin hook 150mm. Code: CH 150	No	8
44	Dust proof strike. Code:DPS-SS-032	No	5
<b>Carried Forward</b>			R
Section No. 2 Bill No. 10 Ironmongery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R	
45	Floor mounted door stop. Code: DDS-NP-018	No	56	
46	Hat and coat hook with rubber buffer. Code: DHC-SS-031B	No	4	
<b><u>MOTORISED BLINDS</u></b>				
<b><u>Supply and install motorised " Block-out blinds with Carnival block out fabric, colour white" or equivalent and equally approved blinds</u></b>				
47	Blinds to cover openings sized 5 725 x 2 600mm high	No	4	
48	Blinds to cover openings sized 5 000 x 2 500mm high	No	1	
<b><u>BUDGETARY ALLOWANCE</u></b>				
49	Allow the sum of R 150 000.00 for the supply and installation of blinds to office areas specified by the Architect		Item	150,000.00
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 10				
Ironmongery (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 11</u></b></p> <p><b><u>STRUCTURAL STEELWORK (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p>All work to be in accordance with SANS 1200 H</p> <p>All Structural steelwork to be Grade S355JR galvanised in accordance with SANS 4998/ISO 4998:1996 for 'Structural Quality'.</p> <p>All bolts to be Grade 8.8 bolts and to be hot dipped galvanised to SANS 121:2011 (ISO 1461:2009(E)).</p> <p>Contractor is to refer to Engineer's notes for details of all fixing, welding, etc.</p> <p><u>All structural steelwork including welding, holing, grouting up, etc. to Structural steel staircase as per Engineer's drawing No. 200-309/501</u></p>			
1	180 PFC Cross Beam	t	0.08	
2	180 PFC Beam	t	0.02	
3	200 PFC Post A	t	0.28	
4	200 PFC Post B	t	0.06	
5	200 PFC Post C	t	0.01	
6	200 PFC Stringer	t	0.35	
7	200PFC End Beam	t	0.04	
8	50 x 50 x 5mm Thick L Cleats	t	0.06	
9	150 x 75 x 10mm Thick L Cleats	t	0.01	
10	10mm Thick steel plates	t	0.01	
	<b>Carried Forward</b>			R
	<p>Section No. 2 Bill No. 11 Structural Steelwork (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
11	12mm thick steel plates	t	0.013	
12	16mm Thick steel plates	t	0.11	
13	M12 Chemical anchor bolts	No	106	
14	M16 Chemical anchor bolts	No	4	
15	M20 Chemical anchor bolts	No	74	
16	Mentis ball and tube heavy duty industrial hand rail/ knee rails and posts (or equally approved) fixed to top of stringers as per Manufacturer's specification and details (typical)	m	17	
<u>All structural steelwork including welding, holing, grouting up, etc. to Structural steel canopy as per Engineer's drawing No. 200-309/500</u>				
17	203 x 133 x 25mm Thick Under Beam Rafter	t	0.40	
18	175 x 75 x 20 x 2.5mm CFLC Purlins	t	0.25	
19	115mm Diameter x 4.5mm thick CHS tube tie	t	0.15	
20	50 x 50 x 3mm Thick angles as false rafters	t	0.03	
21	8mm Thick steel plates	t	0.01	
22	10mm thick steel plates	t	0.03	
23	16mm thick steel plates	t	0.10	
24	20mm Thick steel plates	t	0.40	
25	M12 Chemical anchor bolts	No	12	
26	M16 Chemical anchor bolts	No	24	
27	M20 Chemical anchor bolts	No	12	
28	M24 Chemical anchor bolts	No	9	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 11 Structural Steelwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
	<u>All structural steelwork including welding, holing, grouting up, etc. to Slab infills as per Engineer's drawing No. 200-309/304</u>			
29	100 x 100 x 10mm Thick Steel support angle welded to 100 x 100 x 10mm thick flat with 6mm full penetration bevel weld fixed to side of existing reinforced concrete slab with M20 chemical anchors	m	18	
30	M20 Chemical anchor bolts	No	38	
	<b><u>FINAL PAINTING OF EXPOSED STRUCTURAL STEELWORK</u></b>			
	<u>Prepare surfaces of structural steelwork as specified and apply primer with galvanised iron primer suitable for external application with two finishing coats of matt enamel paint. Colour: cable grey. Code: 03bb 17/015. Dulux or equivalent and equally approved, applied with smooth sponge roller.</u>			
31	Exposed structural steelwork	t	2.80	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	Bill No. 11			
	Structural Steelwork (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 12</u></b></p> <p><b><u>METALWORK (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Aluminium doors, windows, etc</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SANS 10400 Part N. Glass shall be either "SOLARVUE SERENE GREEN SHL" or "SOLARVUE SERENE GREEN TRANSLUCENT" laminated performance glass as shown on the window schedules appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thickness shown on the schedules/drawings.</p> <p>All windows will be fitted with black neoprene gaskets between glazing and glazing beads. Rubber gaskets to all doors and opening window sections.</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.</p> <p>Installation shall be such that the installed products are securely anchored using stainless steel or aluminium screws and sealed with an approved 10 x 10mm silicone fillet sealant on the outside.</p> <p>All corners will be mitred to form close joints, fixed with stainless steel self tapping screws to AAMSA standards, with all joints sealed.</p> <p>For purpose made windows and doors, refer to drawings issued separately with these bills of quantities.</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 12 Metalwork (Provisional)</p>			
			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
The following certificates shall be provided prior to commencement of site work:				
1	A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product			
2	A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively			
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against de lamination and colour degradation for a period of not less than five years			
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<u>1.6mm Double rebated frames, factory primed with red oxide and suitable for one brick walls supplied with fixing, tie bars and two 100mm steel butt hinges per door leaf to suit doors:</u>				
1	TD-01 Size: 813 x 2 032mm high door	No	2	
2	TD-02 Size: 762 x 1 900mm high door	No	4	
3	TD-05 Size: 813 x 2 032mm high door	No	4	
4	TD-06 Size: 762 x 2 032mm high door	No	1	
5	TD-07 Size: 1 360 x 2 032mm high door	No	1	
<b><u>ALUMINIUM DOOR FRAMES</u></b>				
<b>Carried Forward</b>				R
Section No. 2 Bill No. 12 Metalwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
<u>Powder coated extruded natural anodised aluminium frames to suit timber doors:</u>				
6	TD-08 Size: 1 360 x 2 100mm high door	No	6	
7	TD-09 Size: 813 x 2 032mm high door	No	1	
8	TD-10 Size: 813 x 2 032mm high door	No	5	
<b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b>				
<u>Heavy duty powder coated aluminium window units complete with subframes, ironmongery, 6.38mm laminated safety glass, sealing, etc and fixing to brickwork or concrete as per Architectural drawing No. 510-01 and 510-02</u>				
9	W-01 size: 1 200 x 600mm high window	No	2	
<u>Heavy duty powder coated aluminium door units complete with subframes, ironmongery, 6.38mm laminated safety glass, sealing, vinyl signage, etc and fixing to brickwork or concrete as per Architectural drawing No. 510-01 and 510-02</u>				
10	AD-01 size: 1 000 x 2 600mm high doors	No	8	
11	AD-02 size: 1 800 x 2 400mm high doors	No	3	
12	AD-03 size: 810 x 2 400mm high doors	No	21	
13	AD-04 size: 1 000 x 2 400mm high doors	No	8	
14	Viewing panel size:300 x 500mm high	No	1	
<u>Heavy duty powder coated aluminium viewing panels complete with subframes, 6.38mm laminated acoustic safety glass, sealing, etc and fixing to brickwork or concrete as per Architectural drawing No. 510-01 and 510-02</u>				
15	Viewing panel size:300 x 500mm high	No	6	
<b><u>ALUMINIUM SHOPFRONTS</u></b>				
<b>Carried Forward</b>				R
Section No. 2 Bill No. 12 Metalwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
<u>Heavy duty powder coated aluminium shop front units complete with subframes, ironmongery, 6.38mm laminated safety glass, sealing, vinyl signage, etc and fixing to brickwork or concrete as per Architectural drawing No. 510-01 and 510-02</u>				
16	SF-01 size: 4 000 x 2 600mm high shopfront	No	4	
17	SF-02 size: 2 375 x 2 400mm high shopfront	No	2	
18	SF-03 size: 2 200 x 2 500mm high shopfront	No	1	
19	SF-04 size: 1 500 x 2 400mm high shopfront	No	8	
20	SF-05 size: 6 485 x 2 400mm high shopfront	No	5	
21	SF-06 size: 1 100 x 2 100mm high shopfront	No	1	
<b><u>SUNDRY METALWORK</u></b>				
<u>"Rectagrid RS40 45 x 4.5mm thick" or equivalent and equally approved Mentis grating fixed above ceiling as per engineer's instruction to prevent unwanted entry to server room from ceiling void</u>				
22	Mentis grating	m2	21	
<b><u>GLAZED ALUMINIUM BALUSTRADES</u></b>				
<u>1 000mm high anodised aluminium and structural glass balustrade to internal staircases fixed with all necessary bolts, welds, etc.</u>				
23	1 000mm High glazed blaustrading	m	42	
24	Extra over for flat closed end	No	12	
25	Extra over for ramp or knee	No	24	
26	Extra over for mitred L-intersection	No	12	
<b><u>BUDGETARY ALLOWANCES</u></b>				
27	Allow the sum of R75 000.00 for the supply and installation of privacy and decorative vinyl to glazed doors and shop fronts		Item	75,000.00
<b>Carried Forward</b>				R
Section No. 2 Bill No. 12 Metalwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R	
28	Allow the sum of R50 000.00 for the supply and installation of internal handrails to glazed balustrades	Item		50,000.00
29	Allow the sum of R10 000.00 for the supply and installation of general internal signage to office areas	Item		10,000.00
30	Allow the sum of R5 000 for the supply and installation of shower doors	Item		5,000.00
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section No. 2				
Bill No. 12				
Metalwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO 13</u></b>			
	<b><u>PLASTERING (PROVISIONAL)</u></b>			
	<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.			
	<b><u>SCREEDS</u></b>			
	<u>Screeds wood floated, on concrete</u>			
1	40mm Thick on floors and landings	m2	1,270	
	<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster wood floated for tiles, on brickwork</u>			
2	On walls	m2	38	
3	On narrow widths not exceeding 300mm wide	m2	9	
	<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on brickwork</u>			
4	On walls	m2	2,995	
5	On narrow widths not exceeding 300mm wide	m2	899	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 13 Plastering (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 14</u></b></p> <p><b><u>TILING (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Prime Cost amounts for tiles are NET</p> <p>Rates for tiling, in addition to the PC amount, must include for fixing, adhesive, grout, wastage, profit, etc</p> <p><b><u>NOTES</u></b></p> <p>Prior to the laying of the floor tiles, the screeded substrate shall be thoroughly checked for levelness, imperfections, etc., as no claim will be entertained should the floor be deemed to be uneven in appearance by the Architect or Client</p> <p><b><u>Fixing</u></b></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles</p> <p><b><u>WALL TILING</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 Bill No. 14 Tiling (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
1	<p><u>Supply and install 300 x 900mm "Italtile Porcelain wall tiles colour Atelier Mont Blanc" (P.C. Amount R175 /m2) or equivalent and equally approved fixed with adhesive to plaster (plastered elsewhere) and flush pointed with tinted grout</u></p> <p>On walls</p>	m2	5
2	<p><u>Supply and install 600 x 600mm "Italtile Porcelain wall tiles colour Baltimore Marengo Lappato" (P.C. Amount R330 /m2) or equivalent and equally approved fixed with adhesive to plaster (plastered elsewhere) and flush pointed with tinted grout</u></p> <p>On walls</p>	m2	33
<b><u>FLOOR TILING</u></b>			
3	<p><u>Supply and install 600 x 1 200mm "Italtile Ceramic floor tiles colour Neptune grey" (P.C. Amount R175 /m2) or equivalent and equally approved fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout</u></p> <p>On floors and landings</p>	m2	25
4	Skirting 100mm high	m	27
5	<p><u>Supply and install 600 x 1 200mm "Italtile glazed Porcelain floor tiles colour Spazio White" (P.C. Amount R150 /m2) or equivalent and equally approved fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout</u></p> <p>On floors and landings</p>	m2	87
6	Skirting 100mm high	m	179
7	<p><u>Supply and install 600 x 600mm "Italtile glazed Porcelain floor tiles colour Baltomore Marengo Leppato" (P.C. Amount R330 /m2) or equivalent and equally approved fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout</u></p> <p>On floors and landings</p>	m2	26
Carried Forward			R
Section No. 2 Bill No. 14 Tiling (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R	
8	Skirting 100mm high	m	48	
<b><u>SUNDRIES</u></b>				
<b><u>Aluminium corner protectors, stair nosing, edge trims, division strips etc.</u></b>				
9	30 x 30mm Stainless steel tile-in corner protector. Profile to be anchored in place by adhesive, with a grade 304 dot pattern finish	m	15	
10	8mm Wide x 10 deep natural anodised square edge trim to top edge of tiled skirting.. Profile to be anchored in place by adhesive.	m	240	
11	25mm Wide x 8mm high LSP 250 Stainless steel listello or equivalent and equally approved between floor tiles with a 102 brushed stainless steel finish installed as per manufacturer's instructions	m	29	
<b><u>BUDGETARY ALLOWANCES</u></b>				
12	Allow the sum of R30 000.00 for splash backs to ablution and kitchen areas		Item	30,000.00
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section No. 2 Bill No. 14 Tiling (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 15</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>PVC-U pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)</p>			
			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> <p><u>Polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and 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</p> <p><u>Fixing of pipes</u></p> <p>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</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R
Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001				
<u>General</u>				
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)				
Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				
Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site				
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
<u>As-built drawings</u>				
The contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)				
<b><u>SOIL DRAINAGE</u></b>				
All underground piping to be laid in accordance with pipe bedding detail as per Engineer's drawing no. 200-309/900 REV P1				
<u>110mm Diameter uPVC waste drainage pipes</u>				
1	110mm uPVC drainage pipes in trenches, including all excavations, cart away, filling, etc.	m	48	
2	Extra for capped end	No	4	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)				

**BILLS OF QUANTITIES FOR:  
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Brought Forward			R
3	Extra for rodding eye	No	4
4	Extra for 30/45 degree bend	No	3
5	Extra for 90 degree bend	No	9
6	Extra for 45 degree double socket branch	No	9
7	Extra for 90 degree triple socket branch	No	2
	<u>Testing</u>		
8	Testing soil drainage system		Item
	<b><u>SANITARY PLUMBING</u></b>		
	<u>56mm Diameter uPVC waste drainage pipes chased into wall / fixed to suspended slabs</u>		
9	56mm drainage pipe	m	41
10	Extra for capped end	No	1
11	Extra for rodding eye	No	1
12	Extra for 30/45 degree bend	No	3
13	Extra for 90 degree bend	No	34
14	Extra for 45 degree double socket branch	No	2
15	Extra for 90 degree triple socket branch	No	3
	<b><u>SANITARY FITTINGS</u></b>		
	<u>All sanitary fittings to be connected to existing water pipe works. This is to be checked on site with the relevant engineer.</u>		
	<u>Supply and install all sanitary ware as per Architect's Schedule "540 Sanitaryware Schedule" or equivalent and equally approved</u>		
	<b>Carried Forward</b>		R
	Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<u>Cobra</u>			
16	82mm Cobra chrome angle valve supplied and installed complete. Code: COB-832-10	No	16
17	90 x 90 x 125mm Cobra Alto chrome shower head supplied and installed complete. Code: COB-076-ALTO5	No	1
18	110 x 77 x 230mm Cobra Flush Junior chrome urinal flush pipes supplied and installed complete. Code: COB-FJT5-5	No	2
19	130 x 60 x 113mm Cobra Flush Junior chrome flush valves for urinals supplied and installed complete. Code: COB-FJ6-000	No	2
20	130 x 60 x 113mm Cobra chrome plated slotted basin Aquawaste supplied and installed complete. Code: COB-302-32	No	8
21	200 x 140 x 65mm Cobra Focus chrome bath/shower mixer tap supplied and installed complete with all valves, outlets, etc. Code: COB-FC-956	No	1
22	210 x 145 x 85mm Cobra chrome shower arm supplied and installed complete including all flanges, outlets etc. Code: COB-027	No	1
23	225 x 175 x 146mm Cobra chrome sink bottle trap code: COB-360 fitted with 210 x 145 x 85mm Cobra chrome tail pipe code: COB-C 342/1, 90 x 80 x 65mm Cobra cap nuts codes: COB-C-342/2 and COB-C-342/3, supplied and installed complete.	No	8
24	225 x 175 x 146mm Cobra chrome shower P-trap supplied and installed complete. Code: COB-373	No	1
25	230 x 155 x 100mm Cobra Focus chrome basin mixer tap supplied and installed complete including all valves, connectors, etc.	No	1
26	260 x 184 x 248mm Cobra brass compression fitting supplied and installed complete. Code: COB-796-20X100	No	8
27	288 x 288 x 90mm Cobra Focus chrome sink mixer tap supplied complete including all valves, outlets, etc. Code: COB-FC-970	No	3
28	565 x 70 x 190mm Cobra Flush Junior chrome flush valve supplied and installed complete. Code: COB-FJ2-210	No	8
<b>Carried Forward</b>			R
Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
29	890 x 390 x 90mm Cobra Karla chrome sink mixer tap supplied and installed complete including all valves, outlets, etc. Code: COB-6614CH	No	1
	<u>Franke</u>		
30	431 x 250 x 150mm Franke 2.5 litre White epoxy HydroBoil mounted to wall, supplied and installed complete. Code: 2610006	No	1
31	460 x 318 x 150mm Franke SS 5 litre HydroBoil mounted to wall, supplied and installed complete. Code: 2610009	No	4
32	1 160 x 460mm Franke Projectline PLN621 double bowl sink code 1990031 including Franke Spaze F/2 double bowl code: 1120009 supplied and installed complete including all wastes, traps, overflows, etc.	No	1
33	1 200 x 500mm Franke Quineline QLX621-120 steel double bowl sink code: 1990007 including Franke Spaze F/2 double bowls code: 1120009 supplied and installed complete including all wastes, traps, overflows, etc.	No	5
34	Franke F3SV1001 self closing pillar tap supplied and installed complete including all, valves, connectors, etc. Code: 2150029	No	8
	<u>Vaal</u>		
35	310 x 140 x 610mm Vaal urinal division screens supplied and installed complete. Code: VAA-705228WH	No	1
36	315 x 275 x 415mm Vaal Flat back wall hung urinals supplied and installed complete. Code: VAA-705326WH	No	2
37	335 x 290 x 115mm Vaal Weaver counter top basin code: VAA-706600WH including Vaal chrome fixing bolts code: VAA-8448Z000 supplied and installed complete.	No	8
38	500 x 400 x 50mm Vaal Jazz toilet seat supplied and installed complete. Code: VAA-8531Z000	No	8
39	545 x 380 x 40mm Vaal Orchid galvanised silver toilet fixation floor bracket and fixing set supplied and installed complete. Code: VAA-8082Z000	No	8
<b>Carried Forward</b>			R
Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
40	583 x 355 x 382mm Vaal Orchid wall hung water closets supplied and installed complete including all valves, wastes, brackets, connectors, etc. Code: VAA-439100WH	No	8
<p><b><u>Supply and install all sundry sanitary ware as per Architect's Schedule "540 Sanitaryware Schedule" or equivalent and equally approved</u></b></p> <p><u>Franke</u></p>			
41	144 x 138 x 301mm Franke RODX672 SS wall mounted double toilet roll holder with spindle system supplied and installed complete. Code: 2120101	No	8
42	200 x 85 x 140mm Franke RODX619 SS wall mounted soap dispenser supplied and installed complete. Code: 2120095	No	8
43	200 x 295 x 165mm Franke RODX611 wall mounted sanitary towel disposal and waste bin supplied and installed complete. Code: 2120070	No	6
44	275 x 112 x 355mm Franke RODX600 wall mounted paper towel dispenser supplied and installed complete. Code: 2120099	No	6
45	355 x 168 x 460mm Franke RODX605 wall mounted waste bin supplied and installed complete. Code: 2120097	No	6
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No. 2 Bill No. 15 Plumbing and Drainage (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 16</u></b></p> <p><b><u>GLAZING (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><b><u>MIRRORS, ETC</u></b></p> <p><u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork</u></p>			
1	655 x 2 960mm Wall mounted mirror	No	10	
	<p align="center"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2 Bill No. 16 Glazing (Provisional)</p>		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
1	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO 17</u></b></p> <p><b><u>PAINTWORK (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATION OF PLASTERED SURFACES</u></b></p> <p>Preparation of plastered surfaces before applying paint will: scrub entire area with sugar soap solution to remove dirt, chalked material and any other contaminants. Rinse thoroughly with fresh water and allow drying. Repair cracks and/or plaster defects as per "Crack Repair / Plaster Finish" guidelines available from manufacturers. All surfaces must be clean, sound and dry before painting. The moisture content of the cement plaster surfaces must be below 8% when measured on a Doser Hygrometer BD2 scale (or equivalent)</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with "Dulux" specifications unless otherwise described</p> <p><b><u>COLOURS</u></b></p> <p>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</p> <p><b><u>ON INTERNAL CONCRETE SURFACES</u></b></p> <p><u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux Black PVA paint or equivalent and equally approved</u></p> <p>Concrete soffits</p> <p>m2</p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 17 Paintwork (Provisional)</p>	17	R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux trade 90 BG 72 /063 low sheen wash and ware. Colour: BIG CHILL or equivalent and equally approved</u>			
2	Walls	m2	1,253	
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux TRADE 49 GG 77/014 low sheen wash and ware. Colour: CITY SKYLINE or equivalent and equally approved</u>			
3	Walls	m2	1,462	
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux TRADE 60 YY 72/225 low sheen wash and ware. Colour: HONEY FROST or equivalent and equally approved</u>			
4	Walls	m2	280	
	<b><u>ON PLASTERBOARD SURFACES</u></b>			
	<u>One coat professional gypsum and plaster primer and two coats white PVA paint</u>			
5	Ceilings ("White" colour group)	m2	456	
6	Bulkheads not exceeding 300mm high ("White" colour group)	m	408	
7	Bulkheads exceeding 300mm high ("White" colour group)	m2	14	
	<b><u>ON METAL SURFACES</u></b>			
	<u>One coat universal undercoat and two coats gloss enamel paint</u>			
8	Door frames	m2	82	
	<b><u>ON WOOD SURFACES</u></b>			
	<u>One coat wood primer and two coats superior quality clear matt varnish</u>			
9	Doors	m2	159	
	<u>One coat wood primer and two coats black paint to match shop fronts and prevent against water damage</u>			
10	Skirtings, rails, etc not exceeding 300mm girth	m	882	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	Bill No. 17			
	Paintwork (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO 18</u></b>			
	<b><u>PAPERHANGING (PROVISIONAL)</u></b>			
	<b><u>PAPERHANGING TO NEW AND EXISTING WORKS</u></b>			
	<b><u>Graphic wallpaper by "Design Syndicate, Type: Patent decor, with plaster primer by Dulux, 90 GB 38/185 - Barton Blue" or equivalent and equally approved mounted horizontally to Architect's approval</u></b>			
1	On one coat plastered walls, columns, drywalls, etc. including narrow widths	m2	297	
	<b><u>Graphic wallpaper by "Design Syndicate, Type: Linkage   8524, with plaster primer" or equivalent and equally approved mounted horizontally to Architect's approval</u></b>			
2	On one coat plastered walls, columns, drywalls, etc. including narrow widths	m2	102	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 18 Paperhanging (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Bill No	<u>SECTION SUMMARY - Existing Office Alterations</u>	Page No		Amount
1	Alterations and Demolitions (Provisional)	135		
2	Earthworks (Provisional)	137		
3	Concrete, Formwork and Reinforcement (Provisional)	140		
4	Masonry (Provisional)	142		
5	Waterproofing (Provisional)	143		
6	Roof Covering, Cladding, etc. (Provisional)	144		
7	Carpentry and Joinery (Provisional)	148		
8	Ceilings, Partitions and Access Flooring (Provisional)	153		
9	Floor Coverings, Wall Linings, etc. (Provisional)	155		
10	Ironmongery (Provisional)	160		
11	Structural Steelwork (Provisional)	163		
12	Metalwork (Provisional)	168		
13	Plastering (Provisional)	169		
14	Tiling (Provisional)	172		
15	Plumbing and Drainage (Provisional)	179		
16	Glazing (Provisional)	180		
17	Paintwork (Provisional)	182		
18	Paperhanging (Provisional)	183		
	<b>Carried to Final Summary</b>			
	Section No. 2		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unfeathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p>Prices for filling are to include for all necessary density and other tests</p> <p><b><u>SITE CLEARANCE ETC</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 Bill No. 1 Earthworks (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<b><u>Site clearance</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	201
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	201
<b><u>EXCAVATION, FILLING, ETC</u></b>			
<b><u>EXCAVATIONS ETC</u></b>			
<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches, thickening to surface beds, etc.	m3	68
<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u>			
4	Exceeding 500mm and not exceeding 1 500mm deep for placing and removing form work to walls etc.	m2	191
<u>Extra over bulk excavations in earth for excavation in</u>			
5	Soft rock	m3	20
6	Hard rock	m3	10
<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	45
<u>Risk of collapse of excavations</u>			
8	Sides of trenches and holes not exceeding 1,5m deep	m2	190
<u>Keeping excavations free of water</u>			
9	Keeping excavations free of all water other than subterranean water	Item	
<b><u>FILLING ETC</u></b>			
<b>Carried Forward</b>			R
Section No. 3 Bill No. 1 Earthworks (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	<u>Selected imported G2 earth filling spread, level, water and compact to 100% Mod AASHTO density</u>		
10	Backfilling to trenches, holes, etc	m3	31
	<u>Selected imported G7 earth filling spread, level, water and compact to 93% Mod AASHTO density</u>		
11	Backfilling to trenches, holes, etc	m3	161
<b><u>WEED KILLERS, INSECTICIDES, ETC</u></b>			
	<u>Soil insecticide in accordance with SANS 5859</u>		
12	To bottoms and sides of trenches, etc	m2	243
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 1			
Earthworks (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 2</u></b></p> <p><b><u>PILING (PROVISIONAL)</u></b></p> <p>The Tenderer is advised to refer to the Trade Preambles, 2008 Edition before pricing this Bill</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Specification:</p> <p>All piling shall comply with SANS 1200F</p> <p>Wherever reference is made in SANS 1200F to SANS 1200G and 1200GA, this shall mean the preambles D. CONCRETE, FORM WORK AND REINFORCEMENT as contained in the Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors, where applicable.</p> <p>Wherever the term "Engineer" appears in SANS 1200F or in the Project Specification, this shall be deemed to mean Agent or the Agent's representative responsible for the Works</p> <p>Wherever the term "Engineer" appears in SANS 1200F or in the Project Specification, this shall be deemed to mean Agent or the Agent's representative responsible for the Works</p> <p>The clause 8 "Measurement and Payment" of SANS 1200F shall not apply</p> <p><b><u>Scope of Work</u></b></p> <p>The work comprises the design, supply and installation of No.19 piles to be designed by the Selected Subcontractor. The Contractor will be required to disclose the name of his proposed Selected Subcontractor at tender stage and will enter into a JBCC Selected Subcontract Agreement, which will be back-to-back with the Conditions of Contract of the Principal Building Agreement.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 Bill No. 2 Piling (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Specifications, drawings, etc:</u></p> <p>The tenderer is referred to the Structural Engineer's drawings numbered 200-309/300 Rev. P1 accompanying these bills of quantities in order to acquaint himself fully with the nature and scope of the work</p> <p><u>Nature of ground:</u></p> <p>Soil tests have been carried out on the site by the Engineer and the geotechnical investigation report is annexed to these bills of quantities</p> <p><u>Classification of material:</u></p> <p>Refer to the geotechnical investigation report annexed to these bills of quantities</p> <p><u>Indemnity:</u></p> <p>The contractor shall take full responsibility for piling work and shall guarantee that piling work will support the calculated loads laid down by the engineer without injurious settlement. The actual lengths of piles shall be determined on site by the contractor in consultation with the engineer who will give all assistance possible. This does not in any way relieve the contractor of his responsibility or obligation to provide the specified guarantee.</p> <p>The contractor shall indemnify the employer against any injury to or death of any person and all loss or damage to all structures resulting from the failure of any pile. In the event of the failure of any pile the contractor shall make good such pile and all consequent damage at his own expense.</p> <p><u>Insurances, etc:</u></p> <p>The Contractor shall provide an insurance policy, approved by the Principal Agent, before the start of the works, against risks arising out of the responsibilities, guarantee and indemnities specified and shall pay all premiums in respect of this insurance policy.</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 2 Piling (Provisional)</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<p>Guarantees, etc:</p> <p>The Contractor shall provide a pile performance guarantee prior to commencement of work.</p> <p>The guarantee shall be effective for a period of five (5) years from the date of completion of the principal construction contract.</p> <p>Model Preambles:</p> <p>Where the above supplementary preambles contradicts the provisions of the standard Model Preamble Preambles for Trades, 2008 Edition, the supplementary preambles as contained in this bill shall take precedence.</p>			
<b><u>ESTABLISHMENT</u></b>			
1	Transporting to and establishment on site of necessary plant for the execution of the work and removal thereof on completion	Item	
2	Setting up plant at pile position	No	19
<b><u>450mm PRESSURE GROUTED CONTINUOUS FLIGHT AUGER (CFA) PILES</u></b>			
<p><u>Concrete piles suitable for the following working loads, etc including concrete, precast concrete, reinforcement, couplings, drilling, driving or boring, couplings, temporary casings, casting piles, carting away surplus excavated material to a dumping site located by the Contractor, backfilling pile holes with approved sand filling on completion, etc, complete:</u></p>			
3	Piles suitable for 790kN service load	No	19
<b><u>Standing-time:</u></b>			
4	Standing-time charge for crew and rig due to unforeseen delays caused by the Employer	Hrs	48.00
<b><u>TEST CUBES</u></b>			
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	57
<b>Carried Forward</b>			R
<p>Section No. 3 Bill No. 2 Piling (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
<b><u>EXPOSING PILES FOR INSPECTION</u></b>			
6	Exposing pile for inspection including excavation not exceeding 3,5m deep in earth and backfilling	No	10
<b><u>GUARANTEE AND INSURANCE</u></b>			
7	Guarantee in the amount of one million rand (R420,000.00) and shall be effective for a period of five (5) years from the date of completion of the principal contract		Item
8	Insurance policy against claims arising from the installation of piling up to a limit of one million Rand (R30,000,000.00) per claim with no limit on the number of claims that may occur and effective for a period of five (5) years from the date of completion of the principal contract		Item
<b><u>TESTING</u></b>			
9	Transporting to and establishment on site of necessary testing plant for the execution of the work and removal thereof on completion		Item
10	Testing in-situ concrete pile to a maximum load of 790kN	No	10
11	Integrity testing in-situ concrete pile	No	5
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3 Bill No. 2 Piling (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions of form work shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Form work to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Form work to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<p>Form work to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Form work 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"</p>			
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>25MPa concrete</u>			
1	Ground beams	m3	42
2	Slabs including beams and inverted beams	m3	83
<u>30MPa concrete</u>			
3	Surface beds cast in panels on waterproofing	m3	18
4	Edge thickening to surface beds	m3	1
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>			
<u>30MPa concrete</u>			
5	Columns	m3	7
6	Walls	m3	8
<b><u>TEST CUBES</u></b>			
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	474
<b><u>CONCRETE SUNDRIES</u></b>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
8	Surface beds, slabs, etc	m2	134
<b>Carried Forward</b>			R
<p>Section No. 3 Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
	<u>Finishing top surfaces of concrete smooth with a power float with high quality grey non-metallic commercial hardener added (7kg/m<sup>2</sup> in two operations), curing with curing compound at a rate of 7-10m<sup>2</sup>/l, subsequently removing curing compound and sealing with suitable sealer at a rate of 7m<sup>2</sup>/l</u>			
9	Surface beds, etc	m2	224	
	<u>Casting of sleeves for penetrations in new 255mm thick concrete slabs</u>			
10	Casting of 75mm diameter sleeve through new slab	No	10	
11	Casting of 125mm diameter sleeve through new slab	No	12	
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
	<u>Smooth formwork to sides</u>			
12	Rectangular columns	m2	80	
13	Shear walls	m2	78	
14	Sides of beams	m2	131	
15	Edge of surface bed slab not exceeding 300mm high	m	3	
	<u>Smooth formwork to soffits</u>			
16	Slabs	m2	242	
	<b><u>MOVEMENT JOINTS ETC</u></b>			
	<u>Expansion joints with 10mm deep x 10mm wide "Dow Corning 813C" silicone or equivalent and equally approved sealant on 10mm thick polystyrene backing</u>			
17	Not exceeding 300mm high to edges of in-fill slab	m	126	
	<u>Saw-cut joints</u>			
18	3 x 40mm Saw-cut joints in top of concrete reamed out to 8mm wide	m	51	
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 3 Concrete, Formwork and Reinforcement (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
<u>High tensile steel reinforcement to structural concrete work</u>			
19	Bars of varying diameter	t	22.47
<u>Fabric reinforcement</u>			
20	Mesh ref. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	21
21	Mesh ref. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	5
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 3			
Concrete, Formwork and Reinforcement (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 4</u></b></p> <p><b><u>MASONRY (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><b><u>BRICKWORK</u></b></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>FOUNDATIONS (PROVISIONAL)</u></b></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u></p>			
1	One brick walls	m2	13	
2	345mm Cavity walls	m2	12	
	<p><b><u>SUPERSTRUCTURE</u></b></p> <p><u>Brickwork of NFP bricks in class II mortar</u></p>			
3	Half brick walls	m2	214	
	<b>Carried Forward</b>			R
	<p>Section No. 3 Bill No. 4 Masonry (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
4	Half brick lining to concrete	m2	39	
5	One brick walls	m2	202	
6	One brick lining to concrete	m2	23	
7	One brick parapet walls	m2	31	
8	345mm Cavity walls	m2	76	
<b><u>BRICKWORK SUNDRIES</u></b>				
<u>Joint forming material in movement joints</u>				
9	10mm Wide polystyrene spacer strip at wall connections	m	146	
<u>Brickwork reinforcement</u>				
10	30mm Wide x 1.2mm thick galvanised steel strap built into brickwork every third course, fixed with "Hilti" drive pin or equivalent and equally approved shot fired into reinforced concrete column	m	158	
<u>2,5mm Galvanised brick reinforcement</u>				
11	75mm Wide reinforcement built in horizontally	m	1,023	
12	150mm Wide reinforcement built in horizontally	m	1,343	
<u>Pre stressed fabricated concrete lintels including necessary temporary supports</u>				
13	Pair of 100 x 70mm lintels in lengths not exceeding 3m	m	84	
<u>Galvanised hoop iron cramps, ties, etc</u>				
14	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No	594	
<b><u>FACE BRICKWORK</u></b>				
<u>Face brick to match existing (PC R8 000/1 000 bricks), face bricks pointed with recessed horizontal and vertical joints</u>				
15	Extra over brickwork for face brickwork	m2	276	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 4 Masonry (Provisional)				



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL NO 5</u></b>			
	<b><u>WATERPROOFING (PROVISIONAL)</u></b>			
	<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.			
	<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			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>			
1	In walls	m2	119	
	<u>One layer 500 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds	m2	116	
	<b><u>WATERPROOFING TO ROOFS ETC</u></b>			
	<u>Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spun bonded polyester fabric and coated with polyethylene film for heat bonding, laid with 100mm side and 150mm end laps</u>			
3	On flat roofs	m2	134	
4	On turn-ups and turn-downs exceeding 300mm girth	m2	27	
5	Bandage cover flashing strips 200mm girth at turn-ups, including sealing top edge with mastic in and including groove in brickwork	m	51	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 5 Waterproofing (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R
6	Dressing and sealing around pipe not exceeding 100mm external diameter, including additional membrane, gussets, collars, etc	No	2	
	<u>Two coats bituminous aluminium paint</u>			
7	On waterproofing to roofs	m2	134	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
Bill No. 5				
Waterproofing (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL NO 6</u></b>			
	<b><u>CARPENTRY AND JOINERY (PROVISIONAL)</u></b>			
	<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Decorative thermosetting plastic laminate covering</u>			
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish			
	<b><u>DOORS ETC</u></b>			
	<u>Single Solid hardwood core timber doors with masonite flush panels</u>			
1	TD-03 Size: 762 x 2 032mm high door	No	3	
2	TD-04 Size: 686 x 2 032mm high door	No	1	
3	TD-05 Size: 813 x 2 032mm high door	No	7	
4	TD-06 Size: 762 x 2 032mm high door	No	1	
	<u>Single Semi-solid core timber doors with masonite flush panels</u>			
5	TD-02 Size: 762 x 1 900mm high door	No	16	
6	Extra over for undercutting doors	No	16	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 6 Carpentry and Joinery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>			R	
	<p><b><u>VANITY COUNTERS, ETC.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>General</u></p> <p>The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p> <p><u>References</u></p> <p>References given in descriptions refer to the respective types of fittings detailed on the architect's drawing accompanying these bills of quantities for tender purposes</p> <p><u>Vanity basins and recessed counters, top made from "Hanex P-004 Solaris" and base made from "Hanex D-028 Blackbeat" or equivalent and equally approved as detailed on Architectural drawing No. 320-01 and 320-02</u></p>				
7	Vanity counter overall size 2 960 x 550 x 870mm high including all cut-outs, etc.	No	4		
	<p><b><u>SUNDRY JOINERY</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>General</u></p> <p>The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p>				
	<b>Carried Forward</b>			R	
	<p>Section No. 3 Bill No. 6 Carpentry and Joinery (Provisional)</p>				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<u>References</u>			
References given in descriptions refer to the respective types of fittings detailed on the architect's drawing accompanying these bills of quantities for tender purposes			
8	Reception counter overall size 2 400 x 4 700 x 900mm high including 12mm fibre cement cladding around column with signage and lighting (lighting elsewhere measured) as per Architectural drawing No. 320-01	No	1
<b><u>BUDGETARY ALLOWANCES</u></b>			
9	Allow the sum of R 25 000.00 for the supply and installation of a security desk at ground floor entrance	Item	25,000.00
10	Allow the sum of R 10 000.00 for the supply and installation of shelving to storerooms	Item	10,000.00
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 6			
Carpentry and Joinery (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 7</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p> <p>Rates for the applicable items contained in this bill are to allow for all necessary "scaffolding and special scaffolding" for the works to be carried out at all levels and heights as required on site.</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><b><u>SUSPENDED CEILINGS</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 Bill No. 7 Ceilings, Partitions and Access Flooring (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><b><u>Flush plastered skim ceilings</u></b></p> <p>Ceilings shall comprise 12mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><b><u>Flush plastered gypsum plasterboard suspended bulkheads</u></b></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p> <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 7 Ceilings, Partitions and Access Flooring (Provisional)</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
1	<p><u>"AMF Topic with Econogrid" or other equivalent and equivalent and equally approved ceiling tiles, colour white, size 600 x 600mm, laid on suspension system. Ceilings to be installed by an approved specialist and in accordance with the manufacturer's recommendations</u></p> <p>Ceilings suspended not exceeding 1m below concrete soffits</p>	m2	21
2	<p><u>"Knauf AMF Thermatex Alpha Acoustic" or other equivalent and equivalent and equally approved ceiling tiles, colour white, size 600 x 600mm, laid on suspension system. Ceilings to be installed by an approved specialist and in accordance with the manufacturer's recommendations</u></p> <p>Ceilings suspended not exceeding 1m below concrete soffits</p>	m2	9
3	<p><u>9.5mm thick gypsum plasterboard ceiling system suspended on a suspension grid system. All joints to be covered with fibre tape and the entire surface plastered with 3mm to 6mm thick skimming plaster.</u></p> <p>Ceilings suspended not exceeding 1m below concrete soffits</p>	m2	150
4	<p>Vertical portion of bulkheads 100mm high, suspended not exceeding 1m below concrete soffits</p>	m	10
<b>Carried Forward to Summary of Section No. 3</b>			R
<p>Section No. 3 Bill No. 7 Ceilings, Partitions and Access Flooring (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
1	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 8</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LININGS, ETC (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p><b><u>NOTE:</u></b></p> <p>Prior to the laying of the vinyl sheet flooring the screeded substrate shall be thoroughly checked for levelness, imperfections, etc., as no claim will be entertained should the floor be deemed to be uneven in appearance by the Architect or Client</p> <p>Rates for floor coverings must include for fixing, adhesive, wastage, profit, etc</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing</u></b></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><b><u>FLOOR COVERINGS</u></b></p> <p><b><u>"Belgotex floors Natural Bark colour Knots" or equivalent and equally approved carpet tiles, size 500 x 500mm installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings</u></b></p> <p>On floors</p> <p>m2</p> <p><b><u>SCREEDS</u></b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 8 Floor Coverings, Wall Linings, etc. (Provisional)</p>	7		
			R	



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL NO 9</u></b>			
	<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<b><u>Supply and install all Ironmongery items by "dormakaba" or equivalent and equally approved manufacturer</u></b>			
	<u>Locks, indicator bolts, etc.</u>			
1	43mm Five pin euro-profile single cylinder master keyed. Code: DSC104301 MK (43mm)	No	6	
2	66mm Five pin euro-profile single cylinder master keyed. Code: DSC106601 MK (66mm)	No	2	
3	Bathroom Deadlock. Code: D032D SS	No	18	
4	Cylinder Sash Lock. Code: D036S SS	No	2	
5	Cylinder deadlock. Code: D037D SS	No	6	
6	Bathroom WC indicator (Red and White) and turn knob. Code: DWC-005	Sets	16.0	
7	Disabled WC indicator (Red & White) and turn knob for physically impaired. Code: DWC-006	Sets	2.0	
	<b>Carried Forward</b>			
	Section No. 3 Bill No. 9 Ironmongery (Provisional)		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
	<u>Handles</u>			
8	62 x 44mm Ring flush pull handle. Code: DRP-SS-023	No	4	
9	325 x 25mm Straight tubular pull handle. Code: DPH301B	No	4	
10	DPH301C Pull Handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 stainless steel plate with no cylinder cut-out. Code: DHP-430-BL-SF 75X170	No	16	
11	DPH301C Pull Handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 stainless steel plate with no cylinder cut-out. Code: DHP-430-BLSF 150X300	No	2	
12	Lever handle on rose with cylinder escutcheons. Code: TH122 Cyl S.S	Sets	2.0	
	<u>Escutcheon plates</u>			
13	Round cylinder escutcheon. Code: DCE-002 S.S	Pairs	2.0	
	<u>Door closers, etc.</u>			
14	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. Code: TS73V PA DC-PAB-SL	Sets	2.0	
15	Non-hold open cam action slide channel door closer. Code: TS91B - SL	No	2	
	<u>Door signage, kick plates, etc.</u>			
16	150 x 150mm "Disabled persons" sign. Code DSS-133 P	No	2	
17	150 x 150mm "Female" sign. Code: DSS-131 F	No	2	
18	150 x 150mm "Male" sign. Code: DSS-130 M	No	2	
19	170 x 75mm High timber door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts, finished with stainless steel end caps to timber door	No	7	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 9 Ironmongery (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
20	170 x 75mm High directional signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to brick wall	No	4	
21	170 x 200mm High timber door signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to timber door	No	7	
22	170 x 250mm High directional signs comprising of a vinyl layer pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps to brick wall	No	4	
23	170 x 250mm High directional signs comprising of a vinyl layer visible from both directions pressed between two 4mm toughened "Optiwhite" glass or equivalent and equally approved fixed with four stainless steel stand off fixing bolts finished with stainless steel end caps fixed to a 200mm long stainless steel flag rod fixed to brick walls with two stainless steel fixing bolts	No	8	
24	75 x 170 x 1.2mm thick Grade 430 stainless steel plate. Code: DPP-430-BL-SF75X170	No	16	
25	150 x 300 x 1.2mm Thick grade 430 stainless steel plate with cylinder cut-out left. Code: DPP-430-CLSF 150X300	No	2	
26	300 x 813 x 1.2mm thick Grade 430 stainless steel kick plate. Code: DKP-430-SF 300	No	14	
	<u>Sundries</u>			
27	Floor mounted door stop. Code: DDS-NP-018	No	5	
28	Hat and Coat Hook with rubber buffer. Code: DHC-SS-031B	No	16	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
Bill No. 9				
Ironmongery (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 10</u></b></p> <p><b><u>STRUCTURAL STEELWORK (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p>All work to be in accordance with SANS 1200 H</p> <p>All Structural steelwork to be Grade S355JR galvanised in accordance with SANS 4998/ISO 4998:1996 for 'Structural Quality'.</p> <p>All bolts to be Grade 8.8 bolts and to be hot dipped galvanised to SANS 121:2011 (ISO 1461:2009(E)).</p> <p>Contractor is to refer to Engineer's notes for details of all fixing, welding, etc.</p> <p><b><u>All structural steelwork including welding, holing, grouting up, etc. to concrete slabs as per Engineer's drawing No. 200-309/302</u></b></p>			
1	100 x 100 x 10mm Thick steel support angle welded to 100 x 100 x 10mm thick flat with 6mm full penetration bevel weld fixed to side of existing reinforced concrete slab with M20 chemical anchors	m	122	
2	M20 Chemical anchor bolts	No	244	
	<p><b><u>FINAL PAINTING OF EXPOSED STRUCTURAL STEELWORK</u></b></p> <p><b><u>Prepare surfaces of structural steelwork as specified and apply primer with galvanised iron primer suitable for external application with two finishing coats of matt enamel paint. Colour: cable grey. Code: 03bb 17/015. Dulux or equivalent and equally approved, applied with smooth sponge roller.</u></b></p>			
3	Exposed structural steelwork not exceeding 300mm girth	m	122	
	<b>Carried Forward to Summary of Section No. 3</b>			R
	<p>Section No. 3 Bill No. 10 Structural Steelwork (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 11</u></b></p> <p><b><u>METALWORK (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Aluminium doors, windows, etc</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SANS 10400 Part N. Glass shall be either "SOLARVUE SERENE GREEN SHL" or "SOLARVUE SERENE GREEN TRANSLUCENT" laminated performance glass as shown on the window schedules appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thickness shown on the schedules/drawings.</p> <p>All windows will be fitted with black neoprene gaskets between glazing and glazing beads. Rubber gaskets to all doors and opening window sections.</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.</p> <p>Installation shall be such that the installed products are securely anchored using stainless steel or aluminium screws and sealed with an approved 10 x 10mm silicone fillet sealant on the outside.</p> <p>All corners will be mitred to form close joints, fixed with stainless steel self tapping screws to AAMSA standards, with all joints sealed.</p> <p>For purpose made windows and doors, refer to drawings issued separately with these bills of quantities.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 Bill No. 11 Metalwork (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
The following certificates shall be provided prior to commencement of site work:				
1	A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product			
2	A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively			
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against de lamination and colour degradation for a period of not less than five years			
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<u>1.6mm Double rebated frames, factory primed with red oxide and suitable for one brick walls supplied with fixing, tie bars and two 100mm steel butt hinges per door leaf to suit doors:</u>				
1	TD-02 Size: 762 x 1 900mm high door	No	16	
2	TD-03 Size: 762 x 2 032mm high door	No	3	
3	TD-04 Size: 686 x 2 032mm high door	No	1	
4	TD-05 Size: 813 x 2 032mm high door	No	7	
5	TD-06 Size: 762 x 2 032mm high door	No	1	
<b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b>				
<b>Carried Forward</b>				R
Section No. 3 Bill No. 11 Metalwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
<u>Heavy duty powder coated aluminium window units complete with subframes, ironmongery, 6.38mm laminated safety glass, sealing, vinyl signage, etc and fixing to brickwork or concrete as per Architectural drawing No. 510-01 and 510-02</u>				
6	W-01 size: 1 200 x 600mm high window	No	2	
7	W-02 size: 2 400 x 600mm high window	No	2	
8	W-03 size: 3 000 x 600mm high window	No	2	
9	W-04 size: 2 375 x 600mm high window	No	1	
10	W-06 size: 600 x 600mm high window	No	17	
<u>Heavy duty powder coated aluminium louvre units complete with subframes, sealing, etc as per Architectural drawing No. 510-01 and 510-02</u>				
11	L-01 size: 900 x 1 498mm high window	No	2	
<b><u>ALUMINIUM SHOPFRONTS</u></b>				
<u>Heavy duty powder coated aluminium shop front units complete with subframes, ironmongery, 6.38mm laminated safety glass, sealing, vinyl signage, etc and fixing to brickwork or concrete as per Architectural drawing No. 510-01 and 510-02</u>				
12	SF-02 size: 2 375 x 2 400mm high shopfront	No	1	
13	SF-06 size: 1 100 x 2 100mm high shopfront	No	1	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3 Bill No. 11 Metalwork (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 3</u></b>				
<b><u>BILL NO 12</u></b>				
<b><u>PLASTERING (PROVISIONAL)</u></b>				
<b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
<b><u>SCREEDS</u></b>				
<u>Screeds wood floated, on concrete</u>				
1	40mm Thick on floors and landings	m2	244	
2	Average 75mm thick on slabs with upper surface to falls and currents	m2	134	
<b><u>INTERNAL PLASTER</u></b>				
<u>Cement plaster wood floated for tiles, on brickwork</u>				
3	On walls	m2	116	
4	On narrow widths not exceeding 300mm wide	m2	35	
<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on brickwork</u>				
5	On walls	m2	637	
6	On narrow widths not exceeding 300mm wide	m2	191	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3 Bill No. 12 Plastering (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 13</u></b></p> <p><b><u>TILING (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Prime Cost amounts for tiles are NET</p> <p>Rates for tiling, in addition to the PC amount, must include for fixing, adhesive, grout, wastage, profit, etc</p> <p><b><u>NOTES</u></b></p> <p>Prior to the laying of the floor tiles, the screeded substrate shall be thoroughly checked for levelness, imperfections, etc., as no claim will be entertained should the floor be deemed to be uneven in appearance by the Architect or Client</p> <p><b><u>Fixing</u></b></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles</p> <p><b><u>WALL TILING</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 Bill No. 13 Tiling (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
1	<p><u>Supply and install 600 x 1 200mm "Italtile Porcelain wall tiles colour Neptune grey" (P.C. Amount R175 /m2) or equivalent and equally approved fixed with adhesive to plaster (plastered elsewhere) and flush pointed with tinted grout</u></p> <p>On walls</p>	m2	6
2	<p><u>Supply and install 300 x 900mm "Italtile Porcelain wall tiles colour Atelier Mont Blanc" (P.C. Amount R175 /m2) or equivalent and equally approved fixed with adhesive to plaster (plastered elsewhere) and flush pointed with tinted grout</u></p> <p>On walls</p>	m2	39
3	<p><u>Supply and install 600 x 600mm "Italtile Porcelain wall tiles colour Baltimore Marengo Lappato" (P.C. Amount R330 /m2) or equivalent and equally approved fixed with adhesive to plaster (plastered elsewhere) and flush pointed with tinted grout</u></p> <p>On walls</p>	m2	71
<b><u>FLOOR TILING</u></b>			
4	<p><u>Supply and install 600 x 1 200mm "Italtile Ceramic floor tiles colour Neptune grey" (P.C. Amount R175 /m2) or equivalent and equally approved fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout</u></p> <p>On floors and landings</p>	m2	63
5	<p>Skirting 100mm high</p>	m	70
6	<p><u>Supply and install 600 x 1 200mm "Italtile glazed Porcelain floor tiles colour Spazio White" (P.C. Amount R150 /m2) or equivalent and equally approved fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout</u></p> <p>On floors and landings</p>	m2	61
7	<p>Skirting 100mm high</p>	m	270
Carried Forward			R
<p>Section No. 3 Bill No. 13 Tiling (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
	<u>Supply and install 600 x 600mm "Italtile glazed Porcelain floor tiles colour Baltomore Marengo Leppato" (P.C. Amount R330 /m2) or equivalent and equally approved fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout</u>		
8	On floors and landings	m2	88
9	Skirting 100mm high	m	90
	<b><u>SUNDRIES</u></b>		
	<u>Aluminium corner protectors, stair nosing, edge trims, division strips etc.</u>		
10	30 x 30mm Stainless steel tile-in corner protector. Profile to be anchored in place by adhesive, with a grade 304 dot pattern finish	m	155
11	8mm Wide x 10 deep natural anodised square edge trim to top edge of tiled skirting.. Profile to be anchored in place by adhesive.	m	430
12	25mm Wide x 8mm high LSP 250 Stainless steel listello or equivalent and equally approved between floor tiles with a 102 brushed stainless steel finish installed as per manufacturer's instructions	m	90
	<b><u>BUDGETARY ALLOWANCES</u></b>		
13	Allow the sum of R30 000.00 for splash backs to ablution areas	Item	30,000.00
	<b>Carried Forward to Summary of Section No. 3</b>		R
	Section No. 3		
	Bill No. 13		
	Tiling (Provisional)		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 14</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>PVC-U pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)</p>			R

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> <p><u>Polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and 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</p> <p><u>Fixing of pipes</u></p> <p>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</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>		R
<p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>The contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><b><u>RAINWATER DISPOSAL</u></b></p> <p><u>"Marley Vynadeep" uPVC or equivalent and equally approved pipes:</u></p>		
1	120mm Diameter rainwater pipes <span style="float: right;">m</span>	22
2	Extra over rainwater pipe for bend <span style="float: right;">No</span>	3
3	Extra over rainwater pipe for shoe <span style="float: right;">No</span>	3
<b>Carried Forward</b>		R
<p>Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)</p>		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
	<u>"Fulbore" cast iron outlets</u>		
4	350mm Vertical outlet	No	3
	<b><u>SOIL DRAINAGE</u></b>		
	All underground piping to be laid in accordance with pipe bedding detail as per Engineer's drawing no. 200-309/900 REV P1		
	<u>110mm Diameter uPVC waste drainage pipes</u>		
5	110mm uPVC drainage pipes in trenches, including all excavations, cart away, filling, etc.	m	66
6	Extra for capped end	No	3
7	Extra for rodding eye	No	3
8	Extra for 30/45 degree bend	No	23
9	Extra for 90 degree bend	No	6
10	Extra for 45 degree double socket branch	No	13
11	Extra for 90 degree triple socket branch	No	6
12	Extra for 45 degree four socket branch	No	6
	<u>Testing</u>		
13	Testing soil drainage system		Item
	<b><u>SANITARY PLUMBING</u></b>		
	<u>63mm Diameter uPVC waste drainage pipes chased into wall / fixed to suspended slabs</u>		
14	63mm drainage pipe	m	36
15	Extra for capped end	No	4
16	Extra for rodding eye	No	4
17	Extra for 90 degree bend	No	31
	<b>Carried Forward</b>		R
	Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
18	Extra for 45 degree double socket branch	No	10	
19	Extra for 90 degree triple socket branch	No	8	
<u>56mm Diameter uPVC waste drainage pipes chased into wall / fixed to suspended slabs</u>				
20	56mm drainage pipe	m	20	
21	Extra for 30/45 degree bend	No	2	
22	Extra for 90 degree triple socket branch	No	5	
<b><u>WATER SUPPLIES</u></b>				
<u>All equipment, Valves, etc. as per Engineer's specifications annexed to the BOQ and drawing no. P-3000 and P-3001</u>				
23	Supply and install solar geyser system including all solar panels, 300 Litre, 400kPa hot water storage cylinder and control panel including all sensors, connections, overflow pipes, expansion valves, vacuum breakers, etc.	No	1	
<u>"Gerberit Mepla" or equivalent and equally approved pipes chased into wall / fixed to suspended slabs</u>				
<u>Cold water supply</u>				
24	16mm Pipes	m	53	
25	20mm Pipes	m	41	
26	26mm Pipes	m	89	
27	32mm Pipes	m	8	
28	40mm Pipes	m	30	
29	50mm Pipes	m	6	
<u>Hot water supply</u>				
30	16mm Pipes	m	30	
31	20mm Pipes	m	12	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
32	26mm Pipes	m	44	
33	32mm Pipes	m	53	
	<u>Extra over piping for "Gerberit Mepla" or equivalent and equally approved fittings for cold water supply</u>			
34	20mm to 16mm Reducer	No	19	
35	26mm to 16mm Reducer	No	11	
36	26mm to 20mm Reducer	No	22	
37	32mm to 16mm Reducer	No	1	
38	32mm to 26mm Reducer	No	10	
39	40mm to 26mm Reducer	No	3	
40	40mm to 32mm Reducer	No	2	
41	50mm to 40mm Reducer	No	2	
42	16mm Elbow	No	86	
43	20mm Elbow	No	66	
44	26mm Elbow	No	47	
45	32mm Elbow	No	33	
46	40mm Elbow	No	14	
47	50mm Elbow	No	1	
48	16mm Tee	No	43	
49	20mm Tee	No	33	
50	26mm Tee	No	24	
51	32mm Tee	No	12	
52	40mm Tee	No	8	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
53	16mm Ball valve	No	2	
54	26mm Ball valve	No	5	
55	32mm Ball valve	No	8	
56	40mm Ball valve	No	10	
57	32mm Thermostatic valve	No	1	
58	40mm Non-return valve	No	2	
59	40mm Pressure reducing valve	No	2	
60	40mm In line strainer	No	2	
<b><u>PIPE LAGGING, CLADDING, ETC.</u></b>				
<u>"Thermoflex ZIP type lagging" or equivalent and equally approved to:</u>				
61	16mm Pipes	m	30	
62	20mm Pipes	m	12	
63	26mm Pipes	m	44	
64	32mm Pipes	m	53	
<u>Aluminium cladding to pipes exposed to weather elements:</u>				
65	Cladding around 26mm piping	m	6	
66	Cladding around 32mm piping	m	9	
<b><u>SANITARY FITTINGS</u></b>				
<b><u>Supply and install all sanitary ware as per Architect's Schedule "540 Sanitaryware Schedule" or equivalent and equally approved</u></b>				
<u>Cobra</u>				
67	82mm Cobra chrome angle valve supplied and installed complete. Code: COB-832-10	No	40	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
68	110 x 77 x 230mm Cobra Flush Junior chrome urinal flush pipes supplied and installed complete. Code: COB-FJT5-5	No	10
69	125 x 76 x 178mm Cobra Star chrome hose biptaps supplied and installed complete. Code: COB-107EC-15	No	1
70	130 x 60 x 113mm Cobra Flush Junior chrome flush valves for urinals supplied and installed complete. Code: COB-FJ6-000	No	10
71	130 x 60 x 113mm Cobra chrome plated slotted basin Aquawaste supplied and installed complete. Code: COB-302-32	No	18
72	130 x 100mm Cobra Flush Master chrome extended handle flush valve supplied and installed complete. Code: COB-C-FM8-80	No	2
73	206 x 65 x 360mm Cobra Flush Master chrome flush valve supplied and installed complete. Code: COB-FM1-100	No	2
74	225 x 175 x 146mm Cobra chrome sink bottle trap supplied and installed complete. Code: COB-360	No	2
75	225 x 175 x 146mm Cobra chrome sink bottle trap code: COB-360 fitted with 210 x 145 x 85mm Cobra chrome tail pipe code: COB-C 342/1, 90 x 80 x 65mm Cobra cap nuts codes: COB-C-342/2 and COB-C-342/3, supplied and installed complete.	No	18
76	225 x 175 x 146mm Cobra chrome slotted basin waste with plug supplied and installed complete. Code: COB-303	No	2
77	230 x 170 x 90mm Cobra Medical single lever mixer tap supplied and installed complete. Code: COB-NM-851	No	2
78	260 x 184 x 248mm Cobra brass compression fitting supplied and installed complete. Code: COB-796-20X100	No	16
79	266 x 200mm Cobra Flush Master chrome flush valve extension piece supplied and installed complete. Code: COB-C-FM8-90	No	2
80	278 x 126 x 74mm Cobra Star chrome sink mixer supplied and installed complete. Code: COB-266/041/10	No	1
81	565 x 70 x 190mm Cobra Flush Junior chrome flush valve supplied and installed complete. Code: COB-FJ2-210	No	16
<b>Carried Forward</b>			R
Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R
	<u>Franke</u>			
82	540 x 540mm Franke CH slop hopper supplied and installed complete including all, valves, wastes, brackets traps, connectors, etc. Code: 2630035-004	No	1	
83	600 x 500 x 257mm Franke LDL drop-on wash trough supplied and installed complete including all valves, wastes, outlets, brackets, etc. Code: 2560001	No	1	
84	Franke F3SV1001 self closing pillar tap supplied and installed complete including all, valves, connectors, etc. Code: 2150029	No	18	
	<u>Vaal</u>			
85	310 x 140 x 610mm Vaal urinal division screens supplied and installed complete. Code: VAA-705228WH	No	8	
86	315 x 275 x 415mm Vaal Flat back wall hung urinals supplied and installed complete. Code: VAA-705326WH	No	10	
87	335 x 290 x 115mm Vaal Weaver counter top basin code: VAA-706600WH including Vaal chrome fixing bolts code: VAA-8448Z000 supplied and installed complete.	No	18	
88	500 x 400 x 50mm Vaal Buxton toilet seat supplied and installed complete. Code: VAA-8515Z100	No	2	
89	500 x 400 x 50mm Vaal Jazz toilet seat supplied and installed complete. Code: VAA-8531Z000	No	16	
90	510 x 405 x 210mm Vaal Hibiscus wall hung wash hand basins code: VAA-702303WH, including Vaal chrome fixing bolts code: VAA-8448Z000 and 245 x 260 x 440 Vaal basin pedestal code: VAA-715222WH supplied and installed complete	No	2	
91	545 x 380 x 40mm Vaal Orchid galvanised silver toilet fixation floor bracket and fixing set supplied and installed complete. Code: VAA-8082Z000	No	18	
92	583 x 355 x 382mm Vaal Orchid wall hung water closets supplied and installed complete including all valves, wastes, brackets, connectors, etc. Code: VAA-439100WH	No	16	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 14 Plumbing and Drainage (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
93	583 x 355 x 382mm Vaal Orchid wall hung paraplegic water closets supplied and installed complete. Code: VAA-439016WH	No	2
<p><b><u>Supply and install all sundry sanitary ware as per Architect's Schedule "540 Sanitaryware Schedule" or equivalent and equally approved</u></b></p> <p><u>Franke</u></p>			
94	44 x 85 x 144mm Franke SD80 soap dispenser for basin or counter top installation supplied and installed complete. Code: 2120059	No	12
95	144 x 138 x 301mm Franke RODX672 SS wall mounted double toilet roll holder with spindle system supplied and installed complete. Code: 2120101	No	18
96	200 x 85 x 140mm Franke RODX619 SS wall mounted soap dispenser supplied and installed complete. Code: 2120095	No	2
97	200 x 295 x 165mm Franke RODX611 wall mounted sanitary towel disposal and waste bin supplied and installed complete. Code: 2120070	No	12
98	275 x 112 x 355mm Franke RODX600 wall mounted paper towel dispenser supplied and installed complete. Code: 2120099	No	6
99	300 x 96 x 300mm Franke Paraplegic CNTXPAR SS grab rail supplied and installed complete. Code: 2510012	No	2
100	355 x 168 x 460mm Franke RODX605 wall mounted waste bin supplied and installed complete. Code: 2120097	No	6
101	440 x 280mm Franke Falcon bracket for wash troughs supplied and installed complete. Code: 2120007	Pairs	1.0
102	Franke Straight CNTX 750 SS grab rail supplied and installed complete. Code: 2510006	No	2
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 14			
Plumbing and Drainage (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 15</u></b></p> <p><b><u>GLAZING (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><b><u>MIRRORS, ETC</u></b></p> <p><u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork</u></p>			
1	655 x 2 960mm Wall mounted mirror	No	12	
	<p align="center"><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section No. 3 Bill No. 15 Glazing (Provisional)</p>		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
1	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 16</u></b></p> <p><b><u>PAINTWORK (PROVISIONAL)</u></b></p> <p><b>Note:</b> The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATION OF PLASTERED SURFACES</u></b></p> <p>Preparation of plastered surfaces before applying paint will: scrub entire area with sugar soap solution to remove dirt, chalked material and any other contaminants. Rinse thoroughly with fresh water and allow drying. Repair cracks and/or plaster defects as per "Crack Repair / Plaster Finish" guidelines available from manufacturers. All surfaces must be clean, sound and dry before painting. The moisture content of the cement plaster surfaces must be below 8% when measured on a Doser Hygrometer BD2 scale (or equivalent)</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with "Dulux" specifications unless otherwise described</p> <p><b><u>COLOURS</u></b></p> <p>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</p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p><u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux trade 90 BG 72 /063 low sheen wash and ware. Colour: BIG CHILL or equivalent and equally approved</u></p> <p>Walls and columns</p>	m2	462	
	<b>Carried Forward</b>		R	
	Section No. 3 Bill No. 16 Paintwork (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux TRADE 49 GG 77/014 low sheen wash and ware. Colour: CITY SKYLINE or equivalent and equally approved</u>		
2	Walls and columns	m2	88
3	Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional)	m2	26
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux TRADE 60 YY 72/225 low sheen wash and ware. Colour: HONEY FROST or equivalent and equally approved</u>		
4	Walls and columns	m2	14
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux TRADE 90 BG 31/124 low sheen wash and ware. Colour: LAKE FRONT or equivalent and equally approved</u>		
5	Walls and columns	m2	41
<b><u>ON PLASTERBOARD SURFACES</u></b>			
	<u>One coat professional gypsum and plaster primer and two coats white PVA paint</u>		
6	Ceilings ("White" colour group)	m2	150
7	Bulkheads not exceeding 300mm high ("White" colour group)	m	10
<b><u>ON METAL SURFACES</u></b>			
	<u>One coat universal undercoat and two coats gloss enamel paint</u>		
8	Door frames	m2	71
<b><u>ON WOOD SURFACES</u></b>			
	<u>One coat wood primer and two coats superior quality clear matt varnish</u>		
9	Doors	m2	106
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 16			
Paintwork (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL NO 17</u></b></p> <p><b><u>PAPERHANGING (PROVISIONAL)</u></b></p> <p><b><u>PAPERHANGING TO NEW WORK</u></b></p> <p>Graphic wallpaper by "Design Syndicate, Type: Patent decor, with plaster primer by Dulux, 90 GB 38/185 - Barton Blue" or equivalent and equally approved mounted horizontally to Architect's approval</p>			
1	On one coat plastered walls, columns, drywalls, etc. including narrow widths	m2	33	
	<p align="center"><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section No. 3 Bill No. 17 Paperhanging (Provisional)</p>		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Bill No</b>	<b>SECTION SUMMARY - New Ablution Block</b>	<b>Page No</b>		<b>Amount</b>
1	Earthworks (Provisional)	187		
2	Piling (Provisional)	191		
3	Concrete, Formwork and Reinforcement (Provisional)	195		
4	Masonry (Provisional)	198		
5	Waterproofing (Provisional)	200		
6	Carpentry and Joinery (Provisional)	203		
7	Ceilings, Partitions and Access Flooring (Provisional)	206		
8	Floor Coverings, Wall Linings, etc. (Provisional)	208		
9	Ironmongery (Provisional)	211		
10	Structural Steelwork (Provisional)	212		
11	Metalwork (Provisional)	215		
12	Plastering (Provisional)	216		
13	Tiling (Provisional)	219		
14	Plumbing and Drainage (Provisional)	229		
15	Glazing (Provisional)	230		
16	Paintwork (Provisional)	232		
17	Paperhanging (Provisional)	233		
	<b>Carried to Final Summary</b>			R
	Section No. 3			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 4</u></b>			
	<b><u>BILL NO 1</u></b>			
	<b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>			
	<b><u>LANDSCAPING</u></b>			
	<b><u>Removal of trees</u></b>			
1	Digging up and removing trees exceeding 500mm not exceeding 1 000mm girth including grubbing up of roots, etc.	No	5	
	<b><u>EXTERNAL MAIN WATER LINE RETICULATION</u></b>			
	The Tenderer is referred to the Engineer's drawing no. 200-309-900_P1 when pricing items below			
	All underground piping to be laid in accordance with pipe bedding detail as per Engineer's drawing no. 200-309/900 REV P1			
	<b><u>50mm Diameter HDPE 100 PN 12.5 water pipes in trenches, including all excavations, cart away, filling, etc. as per Typical Pipe Bedding Detail</u></b>			
2	50mm Diameter water pipes	m	51	
3	Extra for capped end	No	1	
4	Extra over to tie into existing water line	No	1	
	<b><u>EXTERNAL SEWER RETICULATION</u></b>			
	The Tenderer is referred to the Engineer's drawing no. 200-309-900_P1 when pricing items below			
	All underground piping to be laid in accordance with pipe bedding detail as per Engineer's drawing no. 200-309/900 REV P1			
	<b>Carried Forward</b>			R
	Section No. 4 Bill No. 1 External Works (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<b><u>160mm Diameter CL 34 uPVC waste drainage pipes in trenches, including all excavations, cart away, filling, etc. as per Typical Pipe Bedding Detail</u></b>				
5	160mm drainage pipe	m	87	
6	Extra for capped end	No	1	
7	Extra for rodding eye	No	4	
8	Extra for 30/45 degree bend	No	2	
9	Extra for 90 degree bend	No	1	
<b><u>Sewer manholes including all excavations, filling, pre-cast concrete rings and covers, concrete bases, etc.</u></b>				
10	Sewer Manhole Type A - 750mm diameter	No	4	
11	Extra over to tie into existing sewer manhole	No	2	
<b><u>EXTERNAL STORM WATER RETICULATION</u></b>				
The Tenderer is referred to the Engineer's drawing no. 200-309-900_P1 when pricing items below				
All underground piping to be laid in accordance with pipe bedding detail as per Engineer's drawing no. 200-309/900 REV P1				
<b><u>250mm Diameter CL 34 uPVC waste drainage pipes in trenches, including all excavations, cart away, filling, etc. as per Typical Pipe Bedding Detail</u></b>				
12	250mm drainage pipe	m	44	
13	Extra for 30/45 degree bend	No	3	
<b><u>Storm water manholes including all excavations, filling, pre-cast concrete rings and covers, concrete bases, etc.</u></b>				
14	300 x 300mm Storm water manhole - Type A (sump)	No	3	
15	450 x 600mm Storm water manhole - Type B	No	2	
Carried Forward				R
Section No. 4 Bill No. 1 External Works (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<b><u>The following in storm water headwall as per details on drawing no. 200-309-900 P1</u></b>				
16	Excavations not exceeding 2m	m3	1	
17	Cartaway	m3	1	
18	Risk of collapse	m2	1	
19	30 MPa concrete apron slab	m3	1	
20	R12 Anchor bars	t	0.01	
21	One brick walls	m2	1	
22	Half brick wing walls	m2	1	
23	Extra over for cutting circular hole through brickwork for 250mm diameter storm water pipe	No	1	
24	6 000 x 2 000 x 230mm High reno mattress with gabion fill	No	1	
<b><u>Concrete storm water channels</u></b>				
25	Excavation in earth not exceeding 2m deep for trenches	m3	1	
26	Rip, scarify in-situ material to a depth of 150mm and compact to MOD AASHTO density of 93%	m2	5	
27	Risk of collapse of sides of excavations not exceeding 1,5m deep	m2	3	
28	25 MPa reinforced concrete in bottoms and sides	m3	1	
29	Finishing concrete bottoms smooth with a steel trowel to falls	m2	5	
30	10mm Expansion joints with soft board through concrete bottoms not exceeding 300mm high	m	2	
31	Mesh Ref. 193 fabric reinforcement in concrete bottoms and sides	m2	5	
32	3 000 x 1 000 x 230mm High reno mattress with gabion fill	No	1	
<b><u>ROADWORK, PARKING AREAS AND PAVING</u></b>				
Carried Forward				R
Section No. 4 Bill No. 1 External Works (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<u>Site clearance</u>			
33	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	830
<u>Excavation in earth</u>			
34	Not exceeding 2m deep over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m3	176
35	Rip, scarify in-situ material to a depth of 150mm and compact to MOD AASHTO density of 93%	m2	677
<u>Extra over bulk excavation in earth for excavation in</u>			
36	Soft rock	m3	18
37	Hard rock	m3	9
<u>Extra over all excavations for carting away</u>			
38	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	176
<u>Keeping excavations free of water</u>			
39	Keeping excavations free of water other than subterranean water		Item
<u>Compaction of surfaces</u>			
40	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m2	677
<b><u>LAYER WORK</u></b>			
<u>Filling supplied by the contractor under parking areas, roadways, etc</u>			
41	Sub-base course of G5 material, compacted to 95% Mod AASHTO density	m3	61
42	Base course of G2 material, compacted to 100% Mod AASHTO density	m3	102
<b>Carried Forward</b>			R
Section No. 4 Bill No. 1 External Works (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
	<u>80mm Thick Type S-A (G-Block) block pavers placed on a 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>		
43	Paving to parking areas etc to falls, including necessary straight edge blocks	m2	406
	<u>60mm Thick brick pavers (PC R10 000/1 000 bricks) placed on a 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>		
44	Paving to walkway areas etc to falls, including necessary straight edge blocks	m2	271
	<u>Pre-cast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>		
45	Fig. 6 pre-cast concrete non mountable kerb with 100 x 100mm unreinforced class 20/19 continuous concrete haunching at back of each joint laid on a 325 x 100mm high class 20/19 continuous concrete bedding, including excavation, backfilling, etc	m	116
46	Fig. 12 pre-cast concrete non mountable kerb with 75 x 75mm unreinforced class 20/19 continuous concrete haunching at back of each joint laid on a 225 x 75mm high class 20/19 continuous concrete bedding, including excavation, backfilling, etc.	m	75
	<b><u>PAINTWORK</u></b>		
	<u>Two coats reflective road marking paint on paving</u>		
47	Line 100mm wide	m	110
48	Paraplegic sign 800 x 700mm wide extreme	No	4
	<b><u>FENCING</u></b>		
	<u>Steel palisade fencing</u>		
49	Carefully remove steel palisade fencing and set aside for re-use	m	44
50	Re-install steel palisade fencing in new positioning	m	44
	<b>Carried Forward</b>		R
	Section No. 4 Bill No. 1 External Works (Provisional)		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R	
<b><u>BUDGETARY ALLOWANCES</u></b>				
51	Allow the sum of R30 000.00 for cleaning out and servicing the existing sewer conservancy tank	Item		30,000.00
52	Allow the sum of R30 000.00 for the supply and installation of all external fixed furniture	Item		30,000.00
53	Allow the sum of R30 000.00 for underground scanning of services where new parking areas are to be built	Item		30,000.00
54	Allow the sum of R20 000.00 for the contractor to prove the existing sewer and water lines routes, positions and invert levels	Item		20,000.00
55	Allow the sum of R20 000.00 for the supply and installation of all soft landscaping	Item		20,000.00
56	Allow the sum of R10 000.00 for necessary alterations to existing kerbing, etc.	Item		10,000.00
<b>Carried to Final Summary</b>			R	
Section No. 4				
Bill No. 1				
External Works (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 5</u></b></p> <p><b><u>BILL NO 1</u></b></p> <p><b><u>FIRE PROTECTION INSTALLATION (PROVISIONAL)</u></b></p> <p><b><u>FIRE PROTECTION EQUIPMENT</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p> <p>The Tenderer is referred to Engineer's specifications and drawings for the Umalusi Fire Protection Installation, issued together with these bills of quantities when pricing the items below.</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 5 Bill No. 1 Fire Protection Installation (Provisional)</p>			
			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
1	<p><u>Standard Wall Mounted Type Fire Hose Reel to comply with SANS 543 Fire hose reels shall be fitted with a 30m long reinforced red rubber hose of internal diameter of 20mm nominal bore, with a 4.8mm internal diameter chromium plated brass nozzle and isolating valve connected to existing fire water feed as per Engineer's drawing no. F-5000-T00 and F-5001-T00. Fire hose reel pipes above ground shall be colour coded signal red A11.</u></p> <p>30 Meter fire hose reel</p>	No	5
2	<p><u>Dry Chemical powder fire extinguisher complying with the requirements of SANS 1093 and the extinguishing medium shall comply with the appropriate requirements of SANS 1151. Extinguishers to be hung at positions shown on the Engineer's drawings no. F-5000-T00 and F-5001-T00 complete with Meranti backing board.</u></p> <p>4.5kg Dry Chemical Powder fire extinguisher</p>	No	15
3	<p><u>CO2 Fire extinguisher complying with the requirements of SANS 1093 and the extinguishing medium shall comply with the appropriate requirements of SANS 1151. Extinguishers to be hung at positions shown on the Engineer's drawings no. F-5000-T00 and F-5001-T00 complete with Meranti backing board.</u></p> <p>5kg CO2 Fire extinguisher</p>	No	2
<b><u>FIRE ESCAPE SIGNAGE</u></b>			
<u>All fire escape signage as indicated on the Engineer's drawings no. F-5000-T00 and F-5001-T00. All signs in enclosed areas to be 190 x 190mm photo luminescent signs and all signs in external areas to be 290 x 290mm photo luminescent signs and shall comply with the relevant sections of SANS 1186..</u>			
<u>All illuminated signs to have a 2hour battery.</u>			
4	Type E1	No	2
5	Type E3	No	16
6	Type E6	No	6
7	Type E7	No	6
<b>Carried Forward</b>			R
<p>Section No. 5 Bill No. 1 Fire Protection Installation (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>			R	
8	Type E9	No	6		
9	Type E1/E2 double sided sign	No	5		
	<b><u>FIRE EQUIPMENT SIGNAGE</u></b>				
	<u>All fire equipment signage as indicated on the Engineer's drawings no. F-5000-T00 and F-5001-T00. All signs in enclosed areas to be 190 x 190mm photo luminescent signs and all signs in external areas to be 290 x 290mm photo luminescent signs and shall comply with the relevant sections of SANS 1186.</u>				
10	Type F2	No	3		
11	Type F3	No	6		
12	Type F4	No	5		
13	Type F5/F6 double sided sign	No	3		
	<b>Carried to Final Summary</b>			R	
	Section No. 5 Bill No. 1 Fire Protection Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 6</u></b></p> <p><b><u>ELECTRICAL INSTALLATION</u></b></p> <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> <li>1. This Bill of Quantities forms part of, and must be read in conjunction with the complete specification and must be submitted, duly completed, on the closing date of tenders.</li> <li>2. Tenderers must complete the Bill of Quantities and detail the unit rate and total amount of each item. The "Total" shall constitute the tender price for adjudication. Tenderers are advised to check their item extension and total additions as arithmetical errors occurring in the priced Bill of Quantities cannot be considered as having an effect on the tender amount.</li> <li>3. No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made it will not be recognised but the original wording of the Bill of Quantities will be adhered to. The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered.</li> <li>4. The quantities given in the Bill for cable, cable markers, earth wire laid with cable, overhead conductors, overhead earth wire and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the Bill. All other quantities will not be measured on site. In the event of discrepancies between the drawings, specifications and Bill of Quantities the Engineer shall decide whether the work as executed shall be remeasured on site or whether remeasurement shall be effected from the working drawings only.</li> <li>5. The Bill of Quantities is to be used for pricing and financial purposes only. The drawings take precedence over the particular (project) specification but should be used in conjunction with these specifications. The Project Specification takes precedence over quality specifications and the Bill of Quantities.</li> </ol> <p>NOTE:</p> <p>Checking of Cable and Overhead Conductor Lengths.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 6 Bill No. 1 Preliminaries</p>			
			R	





**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>shall include for screws, cover plates and fuses/breakers where applicable and for connection of wiring thereto.</p> <p>The rate for conduit up to and including 25mm diameter shall include all couplings, bends, boxes etc. as may be required.</p> <p>The rate for luminaires and accessories shall include for connection of the wiring thereto.</p> <p>18. All measurements are based on the most economical route lengths without any allowance for wastage, threading, jointing or slack.</p> <p>19. In the case of wiring in conduit, an allowance of 300mm per wire outlet box position has been made and in the case of cables and wiring entering switchboards, an allowance of 1000 and 2000mm has been made for termination purposes in sub-distribution and main distribution boards respectively.</p> <p>20. It should be noted that, notwithstanding anything to the contrary, any items completed or listed in the Bill of Quantities by the Tenderer will not be taken into account, will not be subject to re-measurement, and will not be regarded as a Bill of Quantities item.</p> <p>21. Where equipment is specified by name, the tenderer must price on this basis. Alternatives may be offered by Tenderers but the use of which is subject to written approval by the Engineer.</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 6 Bill No. 1 Preliminaries</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
<b><u>BILL NO 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>The costs for the following items shall not be included in the cost rates for work listed in the rest of the Bill of Quantities.</u></b>			
1	Cost for compliance with Main Contractor's Cost for compliance with Main Contractor's	Item	
2	Contractual requirements as specified, i.e guarantees, insurance, sureties, company's overheads administration etc.	Item	
3	Contract engineer, administration, supervision, programming and management.	Item	
4	Establish site accommodation, storage etc.	Item	
5	Maintain and operate site establishment.	Item	
6	Remove site establishment on completion and remove all rubbish, foundations, concrete bases, dirt oil spillage, etc, and leave site in condition as found.	Item	
7	Tools, equipment, plant hire and testing gear/meters as necessary.	Item	
8	Guarantee and maintenance for the complete Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS after date of completion and handover	Item	
9	Allow for testing and commissioning the whole of the electrical installation as laid down in the specification and for re-testing as may be required after the making good of all defective work to the satisfaction of the Engineer	Item	
10	3 sets of as built drawings showing all conduit routes, draw boxes and positions of outlets etc.	Item	
11	Provision for final testing and Certificate of Compliance to be issued on completion of the project in addition to the detailed testing specified.	Item	
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Bill No. 1			
Preliminaries			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 6</u></b>				
<b><u>BILL NO 2</u></b>				
<b><u>GENERAL ITEMS</u></b>				
1	Allow to liaise with I.T personnel to establish what existing services can be stripped out.	Item		
2	Allow to liaise with I.T. personnel to for access control and IT and T.	Item		
3	Trace and identify all circuits before de-energising distribution boards/circuits or equipment	Item		
4	Allow for engraved labels to all light switches, switch socket outlets and isolators indicating the DB name and circuit numbers	Item		
5	Earth cable trays and ladders with 10 mm <sup>2</sup> Cu PVC cable jumpers across joints, splices, elbows, tees etc.	Item		
6	Liaison with various sub-contractors in regard to final building dimension, access routes, limiting sizes, constraint of equipment etc.	Item		
7	Liaise with builder during construction of penetrations in concrete and brickwork to ensure they are formed in the correct positions	Item		
8	Liaise with relevant sub-contractors in regard to cable entry requirements, phase rotation and control wiring connection facilities required and to be provided in each sub-contractors switchboard for use by the electrical contractor in connecting up	Item		
9	Liaise with the builder during construction of recesses in concrete slabs, beams and columns to ensure they are formed in the correct positions	Item		
<b><u>LABOUR RATES</u></b>				
10	Supervisor/Foreman	Hrs	5.00	
11	Electrician	Hrs	10.00	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 2 General Items				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
12	Apprentice	Hrs	10.00	
13	Cable Jointer	Hrs	10.00	
14	Labourer	Hrs	15.00	
15	Watchman	Hrs	10.00	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6				
Bill No. 2				
General Items				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 6</u></b>				
<b><u>BILL NO 3</u></b>				
<b><u>SITE RETICULATION</u></b>				
1	Excavate not exceeding 800 mm deep in soft material for cabling and cable pipe trench including bedding, backfilling, compaction and disposal of surplus material	m3	24	
2	Excavate not exceeding 800 mm deep in intermediate rock material for cabling and cable pipe trench including bedding, backfilling, compaction and disposal of surplus material	m3	10.08	
3	Excavate not exceeding 800 mm deep in hard rock material for cabling and cable pipe trench including bedding, backfilling, compaction and disposal of surplus material	m3	9.12	
4	Earthing and bonding of cable ladder and galvanised trunking 10 mm <sup>2</sup> Cu PVC jumpers with lugs		Item	
<b><u>ELECTRICAL / TELEPHONE / DATA SLEEVES / ACCESS CONTROL</u></b>				
5	Supply and install 600x600x600mm manhole to specification complete with heavy duty manhole cover	No	3	
6	Supply and install 800x800x800mm manhole to specification complete with heavy duty manhole cover	No	4	
7	Supply and install 1000x1000x1000mm manhole to specification complete with heavy duty manhole cover	No	1	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6 Bill No. 3 Site Reticulation				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 4</u></b>			
	<b><u>DISTRIBUTION BOARDS</u></b>			
	<b><u>Supply and delivery of the following distribution boards</u></b>			
1	Main LV Distribution Kiosk As per single line diagram - Drawing No. 19034_401_0	No	1	
2	Distribution Board (DB-GE) As per single line diagram - Drawing No. 19034_402_0	No	1	
3	Distribution Board (DB-UPS) As per single line diagram - Drawing No. 19034_403_0	No	1	
4	Distribution Board (DB-GAE / UPS-GA) As per single line diagram - Drawing No. 19034_404_0	No	1	
5	Distribution Board (DB-1AE / UPS-1A) As per single line diagram - Drawing No. 19034_405_0	No	1	
6	Distribution Board (DB-1BE / UPS-1B) As per single line diagram - Drawing No. 19034_406_0	No	1	
7	Distribution Board (DB-1CE / UPS-1C) As per single line diagram - Drawing No. 19034_407_0	No	1	
8	Distribution Board (DB-GH) As per single line diagram - Drawing No. 19034_408_0	No	1	
9	Distribution Board (DB-UPS Server Room) As per single line diagram - Drawing No. 19034_409_0	No	1	
	<b><u>Install the following distribution boards</u></b>			
10	Main LV Distribution Kiosk As per single line diagram - Drawing No. 19034_401_0	No	1	
11	Distribution Board (DB-GE) As per single line diagram - Drawing No. 19034_402_0	No	1	
	<b>Carried Forward</b>			
	Section No. 6 Bill No. 4 Distribution Boards		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
12	Distribution Board (DB-UPS) As per single line diagram - Drawing No. 19034_403_0	No	1
13	Distribution Board (DB-GAE / UPS-GA) As per single line diagram - Drawing No. 19034_404_0	No	1
14	Distribution Board (DB-1AE / UPS-1A) As per single line diagram - Drawing No. 19034_405_0	No	1
15	Distribution Board (DB-1BE / UPS-1B) As per single line diagram - Drawing No. 19034_406_0	No	1
16	Distribution Board (DB-1CE / UPS-1C) As per single line diagram - Drawing No. 19034_407_0	No	1
17	Distribution Board (DB-GH) As per single line diagram - Drawing No. 19034_408_0	No	1
18	Distribution Board (DB-UPS Server Room) As per single line diagram - Drawing No. 19034_409_0	No	1
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Bill No. 4			
Distribution Boards			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 5</u></b>			
	<b><u>L.V. CABLING</u></b>			
	<b><u>Supply the following 600/1000 Volt Cu PVC SWA PVC ECC cables:</u></b>			
1	120 mm <sup>2</sup> 4 core	m	87	
2	95 mm <sup>2</sup> 4 core	m	184	
3	70 mm <sup>2</sup> 4 core	m	87	
4	50 mm <sup>2</sup> 4 core	m	74	
5	35 mm <sup>2</sup> 4 core	m	189	
6	25 mm <sup>2</sup> 4 core	m	68	
7	16 mm <sup>2</sup> 4 core	m	59	
8	10 mm <sup>2</sup> 4 core	m	105	
9	6 mm <sup>2</sup> 4 core	m	96	
10	16 mm <sup>2</sup> 2 core	m	84	
11	10 mm <sup>2</sup> 2 core	m	57	
12	6 mm <sup>2</sup> 2 core	m	61	
	<b><u>Extra on last to install in cable sleeve, ladder, tray, basket</u></b>			
13	120 mm <sup>2</sup> 4 core	m	87	
14	95 mm <sup>2</sup> 4 core	m	184	
15	70 mm <sup>2</sup> 4 core	m	87	
16	50 mm <sup>2</sup> 4 core	m	74	
	<b>Carried Forward</b>			
	Section No. 6 Bill No. 5 L.V. Cabling		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
17	35 mm <sup>2</sup> 4 core	m	189	
18	25 mm <sup>2</sup> 4 core	m	68	
19	16 mm <sup>2</sup> 4 core	m	59	
20	10 mm <sup>2</sup> 4 core	m	105	
21	6 mm <sup>2</sup> 4 core	m	96	
22	16 mm <sup>2</sup> 2 core	m	84	
23	10 mm <sup>2</sup> 2 core	m	57	
24	6 mm <sup>2</sup> 2 core	m	61	
<b><u>Termination inclusive of cable glands, lugs etc.</u></b>				
25	120 mm <sup>2</sup> 4 core	No	8	
26	95 mm <sup>2</sup> 4 core	No	12	
27	70 mm <sup>2</sup> 4 core	No	8	
28	50 mm <sup>2</sup> 4 core	No	6	
29	35 mm <sup>2</sup> 4 core	No	14	
30	25 mm <sup>2</sup> 4 core	No	8	
31	16 mm <sup>2</sup> 4 core	No	8	
32	10 mm <sup>2</sup> 4 core	No	18	
33	6 mm <sup>2</sup> 4 core	No	8	
34	16 mm <sup>2</sup> 2 core	No	8	
35	10 mm <sup>2</sup> 2 core	No	6	
36	6 mm <sup>2</sup> 2 core	No	6	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 5 L.V. Cabling				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		Brought Forward		R
		<u>Supply and install Scotchcast cable joint for the following PVC SWA PVC ECC cables;</u>		
37	70 mm <sup>2</sup> 4 core	No	1	
38	50 mm <sup>2</sup> 4 core	No	1	
39	35 mm <sup>2</sup> 4 core	No	1	
40	25 mm <sup>2</sup> 4 core	No	1	
41	16 mm <sup>2</sup> 4 core	No	1	
42	10 mm <sup>2</sup> 2 core	No	1	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6				
Bill No. 5				
L.V. Cabling				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 6</u></b>			
	<b><u>WIRE-WAYS</u></b>			
	<b><u>CABLE LADDERS</u></b>			
	<b><u>The complete supply, transport to site, and storage of hot dipped galvanised heavy duty cable ladder and offsets as required below:</u></b>			
1	150 mm wide	m	97	
2	150 mm 90 degree bend	No	13	
3	150 mm Tee piece	No	4	
4	150 mm 4-way piece	No	3	
5	150 mm riser piece	No	2	
6	300 mm wide	m	34	
7	300 mm 90 degree bend	No	2	
8	300 mm Tee piece	No	1	
9	300 mm 4-way piece	No	1	
10	300 mm riser piece	No	1	
	<u>Extra on last to install horizontally (trapeze) or vertically (P1000 uni strut). Fixings at 1000mm. Installation is to include for all joiner splices, raw bolts and fixing cable ladder to uni strut with bolt fasteners complete with spring washer, fixing bolts etc.</u>			
11	150 mm wide	m	97	
12	150 mm 90 degree bend	No	13	
13	150 mm Tee piece	No	4	
	<b>Carried Forward</b>			R
	Section No. 6 Bill No. 6 Wire Ways			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
14	150 mm 4-way piece	No	3	
15	150 mm riser piece	No	2	
16	300 mm wide	m	34	
17	300 mm 90 degree bend	No	2	
18	300 mm Tee piece	No	1	
19	300 mm 4-way piece	No	1	
20	300 mm riser piece	No	1	
<b><u>CABLE TRAYS</u></b>				
<b><u>The complete supply, transport to site, and storage of hot dipped galvanised heavy duty cable tray and offsets as required below:</u></b>				
21	150 mm wide	m	24	
22	150 mm 90 degree bend	No	2	
23	150 mm Tee piece	No	1	
24	150 mm 4-way piece	No	1	
25	150 mm riser piece	No	1	
26	300 mm wide	m	36	
27	300 mm 90 degree bend	No	2	
28	300 mm Tee piece	No	1	
29	300 mm 4-way piece	No	1	
30	300 mm riser piece	No	1	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 6 Wire Ways				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
<u>Extra on last to install horizontally (trapeze) or vertically (P1000 uni strut). Fixings at 1000mm. Installation is to include for all joiner splices, raw bolts and fixing cable tray to uni strut with bolt fasteners complete with spring washer, fixing bolts etc.</u>				
31	150 mm wide	m	24	
32	150 mm 90 degree bend	No	2	
33	150 mm Tee piece	No	1	
34	150 mm 4-way piece	No	1	
35	150 mm riser piece	No	1	
36	300 mm wide	m	36	
37	300 mm 90 degree bend	No	2	
38	300 mm Tee piece	No	1	
39	300 mm 4-way piece	No	1	
40	300 mm riser piece	No	1	
<b><u>CABLE BASKETS</u></b>				
<b><u>The complete supply, transport to site, and storage of hot dipped galvanised medium duty cable basket and offsets as required below:</u></b>				
41	150 mm wide	m	34	
42	150 mm 90 degree bend	No	2	
43	150 mm Tee piece	No	1	
44	150 mm 4-way piece	No	1	
45	150 mm riser piece	No	1	
46	300 mm wide	m	249	
47	300 mm 90 degree bend	No	18	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 6 Wire Ways				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
48	300 mm Tee piece	No	13	
49	300 mm 4-way piece	No	3	
50	300 mm riser piece	No	2	
	<u>Extra on last to install horizontally (trapeze) or vertically (P1000 uni strut). Fixings at 1000mm. Installation is to include for all joiner splices, raw bolts and fixing cable basket to uni strut with bolt fasteners complete with spring washer, fixing bolts etc.</u>			
51	150 mm wide	m	34	
52	150 mm 90 degree bend	No	2	
53	150 mm Tee piece	No	1	
54	150 mm 4-way piece	No	1	
55	150 mm riser piece	No	1	
56	300 mm wide	m	249	
57	300 mm 90 degree bend	No	18	
58	300 mm Tee piece	No	13	
59	300 mm 4-way piece	No	3	
60	300 mm riser piece	No	2	
	<b><u>SLEEVES</u></b>			
	<b><u>Supply the following cable sleeves:</u></b>			
61	160mm hard PVC sleeves.	m	212	
62	110mm hard PVC sleeves.	m	63	
63	75mm hard PVC sleeves.	m	34	
64	50mm hard PVC sleeves.	m	25	
65	Slow radius bend for 160mm PVC sleeve	No	3	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 6 Wire Ways				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
66	Slow radius bend for 110mm PVC sleeve	No	4	
67	Slow radius bend for 75mm PVC sleeve	No	2	
68	Slow radius bend for 50mm PVC sleeve	No	2	
<u>Extra on last to install the following in trench (trenching measured elsewhere)</u>				
69	160mm hard PVC sleeves.	m	212	
70	110mm hard PVC sleeves.	m	63	
71	75mm hard PVC sleeves.	m	34	
72	50mm hard PVC sleeves.	m	25	
73	Slow radius bend for 160mm PVC sleeve	No	3	
74	Slow radius bend for 110mm PVC sleeve	No	4	
75	Slow radius bend for 75mm PVC sleeve	No	2	
76	Slow radius bend for 50mm PVC sleeve	No	2	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6				
Bill No. 6				
Wire Ways				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 7</u></b>			
	<b><u>LIGHTING AND SMALL POWER - GROUND FLOOR</u></b>			
	<b><u>Supply and install the following:</u></b>			
	<b><u>LIGHTING</u></b>			
1	25 mm PVC conduit surface mounted	m	56	
2	25 mm PVC conduit cast-in to floor slab	m	41	
3	25 mm PVC conduit in partition wall	m	225	
	<b><u>PVC insulated 1 000 V grade hard drawn copper wire drawn into trunking/conduit and coloured as per phase</u></b>			
4	2.5 mm <sup>2</sup>	m	2,112	
5	2,5 mm <sup>2</sup> PVC insulated surfix cable	m	32	
6	Extra on last to terminate inclusive of glands etc.	No	10	
7	Single lever 1 way 16 amp Crabtree classic or equivalent and equivalent and equally approved light switch in 100 x 50/50 galvanised box inclusive of cover	No	18	
8	1 lever 2 way 16 amp Crabtree classic or equal approved light switch or other in 100 x 50/50 galvanised box inclusive of cover	No	9	
9	6 amp un switched socket outlet	No	215	
10	65mm PVC round box for 25mm conduit	No	61	
11	65mm 3 way PVC round draw box	No	35	
12	20A Photocell inclusive of bulkhead enclosure	No	4	
	<b>Carried Forward</b>			
	Section No. 6 Bill No. 7 Lighting and Small Power - Ground Floor		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
13	Occupancy sensor - Province Lighting (PS-PIR3) flush mounted, white with 360 degree detection angle	No	21
<b><u>Install the following light fittings as per drawing number 19034 601 0</u></b>			
14	Type A1	No	2
15	Type A2	No	2
16	Type B1	No	20
17	Type B1e	No	9
18	Type B2	No	34
19	Type B2e	No	7
20	Type C1	No	98
21	Type C1e	No	11
22	Type C2	No	29
23	Type C2e	No	6
24	Type C3	No	10
25	Type D	No	4
26	Type E	No	6
27	Type F	No	10
28	Type G	No	10
29	Type H	No	10
30	Supply and install P8000 trunking complete with cover plate to soffit	m	105
31	Supply and install P8000 crossover	No	1
32	Supply and install P8000 elbow	No	7
<b>Carried Forward</b>			R
Section No. 6 Bill No. 7 Lighting and Small Power - Ground Floor			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
33	Supply and install P8000 Tee-piece	No	5	
34	Supply and install P8000 4-way piece	No	1	
35	Supply and install P8000 end caps	No	8	
<b><u>SMALL POWER</u></b>				
36	20 mm PVC conduit surface mounted	m	38	
37	20 mm PVC conduit cast-in to floor slab	m	39	
38	20 mm PVC conduit in partition wall	m	74	
39	25 mm PVC conduit surface mounted	m	49	
40	25 mm PVC conduit cast-in to floor slab	m	48	
41	25 mm PVC conduit in partition wall	m	305	
42	32 mm PVC conduit surface mounted	m	31	
43	32 mm PVC conduit cast-in to floor slab	m	197	
44	32 mm PVC conduit in partition wall	m	74	
<b><u>PVC insulated 1 000 V grade hard drawn copper wire drawn into trunking/conduit and coloured as per phase</u></b>				
45	2.5 mm <sup>2</sup>	m	201	
46	4.0 mm <sup>2</sup>	m	3,817	
47	6.0 mm <sup>2</sup>	m	374	
48	2,5 mm <sup>2</sup> PVC insulated surfix cable	m	41	
49	Extra on last to terminate inclusive of glands etc.	No	12	
50	Supply and install normal switch socket outlet in 100x100/50 PVC conduit box	No	8	
51	Supply and install single switch socket outlet, with euro outlet in 100x100/50 PVC conduit box Crabtree classic	No	49	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 7 Lighting and Small Power - Ground Floor				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
52	Supply and install 16A dedicated switch socket outlet, in 100x100/50 PVC conduit box for AV screen projector	No	14
53	Supply and Install Two Compartment 2 cover, Epoxy Powder coated power skirting, surface mounted, inclusive of cover	m	49
54	Supply and install End caps	No	6
55	Supply and install 90° bends	No	5
56	Supply and Install 20A Three pin dedicated switch socket outlet installed in power skirting	No	18
57	Supply and Install 20A Three pin normal switch socket outlet in installed in power skirting	No	11
58	Supply and Install 20A Three pin euro switch socket outlet in installed in power skirting	No	11
59	Blank cover plate	No	19
60	65mm PVC round box for 25mm conduit	No	12
61	100x50/50 PVC conduit boxes for AC controller	No	11
62	Supply and install P8000 trunking complete with cover plate to soffit	m	105
63	Supply and install P8000 crossover	No	1
64	Supply and install P8000 elbow	No	7
65	Supply and install P8000 Tee-piece	No	5
66	Supply and install P8000 end caps	No	1
67	Supply and install P8000 4-way piece	No	8
68	Supply and install 10A single phase isolator for extraction	No	8
69	Supply and install 20A single phase isolators for aircon supply	No	21
70	Supply and install 20A single phase isolators for hydroboil	No	3
<b>Carried Forward</b>			R
Section No. 6 Bill No. 7 Lighting and Small Power - Ground Floor			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
71	Supply and install 20A single phase isolators for hand drier power supplies	No	2
72	Supply and install 30A single phase isolators	No	3
73	Supply and install 30A single phase weather proof isolator for aircon supply	No	3
74	Supply and install 40A single phase weather proof isolator for aircon supply	No	8
75	Supply and install 30A three phase isolators for aircon supply	No	3
76	Supply and install 40A three phase isolators for aircon supply	No	3
77	Supply and install 40A three phase weather proof isolator for aircon supply	No	9
78	Supply and install 16A weather proof switch socket outlet	No	5
79	Supply and install Crabtree Powercomm 9 way cluster box complete with:  1 x Normal S.S.O (SANS 164-1) 1 x UPS Power Point 2 x RJ45 outlets 1 x HDMI Point	No	3
80	Supply and install Cabstrut Access floor conduit box system (205 x 287 x 79) complete with:  1 x Normal S.S.O (SANS 164-1) 1 x Normal Euro S.S.O (SANS 164-2) 1 x Dedicated S.S.O (SANS 164-4) 1 x RJ45 outlets 1 x HDMI Power Point	No	9
81	Supply and install 4m Pole compromising of the following:  2 x Normal S.S.O (SANS 164-1) 2 x Euro S.S.O (SANS 164-2) 2 x Dedicated S.S.O (SANS 164-4) 4 x Blank RJ45 outlets	No	4
<b>Carried Forward</b>			R
Section No. 6 Bill No. 7 Lighting and Small Power - Ground Floor			



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 8</u></b>			
	<b><u>LIGHTING AND SMALL POWER - FIRST FLOOR</u></b>			
	<b><u>Supply and install the following:</u></b>			
	<b><u>LIGHTING</u></b>			
1	25 mm PVC conduit surface mounted	m	34	
2	25 mm PVC conduit cast-in to floor slab	m	57	
3	25 mm PVC conduit in partition wall	m	412	
	<b><u>PVC insulated 1 000 V grade hard drawn copper wire drawn into trunking/conduit and coloured as per phase</u></b>			
4	2.5 mm <sup>2</sup>	m	3,142	
5	2,5 mm <sup>2</sup> PVC insulated surfix cable	m	34	
6	Extra on last to terminate inclusive of glands etc.	No	10	
7	Single lever 1 way 16 amp Crabtree classic or equivalent and equivalent and equally approved light switch in 100 x 50/50 galvanised box inclusive of cover	No	59	
8	1 lever 2 way 16 amp Crabtree classic or equal approved light switch or other in 100 x 50/50 galvanised box inclusive of cover	No	12	
9	6 amp un switched socket outlet	No	274	
10	65mm PVC round box for 25mm conduit	No	74	
11	65mm 3 way PVC round draw box	No	54	
12	20A Photocell inclusive of bulkhead enclosure	No	2	
	<b>Carried Forward</b>			
	Section No. 6 Bill No. 8 Lighting and Small Power - First Floor		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
13	Occupancy sensor - Province Lighting (PS-PIR3) flush mounted, white with 360 degree detection angle	No	59
<b><u>Install the following light fittings as per drawing number 19034 601 0</u></b>			
14	Type A2	No	1
15	Type A3	No	7
16	Type A3e	No	2
17	Type B1	No	191
18	Type B1e	No	15
19	Type B2	No	23
20	Type B2e	No	6
21	Type C1	No	61
22	Type C1e	No	12
23	Type C2	No	16
24	Type C2e	No	5
25	Type D	No	2
26	Type E	No	10
27	Supply and install P8000 trunking complete with cover plate to soffit	m	145
28	Supply and install P8000 crossover	No	1
29	Supply and install P8000 elbow	No	13
30	Supply and install P8000 Tee-piece	No	6
31	Supply and install P8000 4-way piece	No	2
32	Supply and install P8000 end caps	No	10
<b>Carried Forward</b>			R
Section No. 6 Bill No. 8 Lighting and Small Power - First Floor			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<b><u>SMALL POWER</u></b>				
33	20 mm PVC conduit surface mounted	m	28	
34	20 mm PVC conduit cast-in to floor slab	m	41	
35	20 mm PVC conduit in partition wall	m	89	
36	25 mm PVC conduit surface mounted	m	34	
37	25 mm PVC conduit cast-in to floor slab	m	48	
38	25 mm PVC conduit in partition wall	m	787	
39	32 mm PVC conduit surface mounted	m	26	
40	32 mm PVC conduit cast-in to floor slab	m	69	
41	32 mm PVC conduit in partition wall	m	198	
<b><u>PVC insulated 1 000 V grade hard drawn copper wire drawn into trunking/conduit and coloured as per phase</u></b>				
42	2.5 mm <sup>2</sup>	m	297	
43	4.0 mm <sup>2</sup>	m	4,688	
44	6.0 mm <sup>2</sup>	m	304	
45	2,5 mm <sup>2</sup> PVC insulated surfix cable	m	34	
46	Extra on last to terminate inclusive of glands etc.	No	10	
47	Supply and install normal switch socket outlet in 100x100/50 PVC conduit box	No	6	
48	Supply and install single switch socket outlet, with euro outlet in 100x100/50 PVC conduit box Crabtree classic	No	38	
49	Supply and install 16A dedicated switch socket outlet, in 100x100/50 PVC conduit box for AV screen projector	No	7	
50	Supply and Install Two Compartment 2 cover, Epoxy Powder coated power skirting, surface mounted, inclusive of cover	m	354	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 8 Lighting and Small Power - First Floor				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
51	Supply and install End caps	No	97	
52	Supply and install 90° bends	No	48	
53	Supply and Install 20A Three pin dedicated switch socket outlet installed in power skirting	No	101	
54	Supply and Install 20A Three pin normal switch socket outlet in installed in power skirting	No	99	
55	Supply and Install 20A Three pin euro switch socket outlet in installed in power skirting	No	99	
56	Blank cover plate	No	12	
57	65mm PVC round box for 25mm conduit	No	26	
58	100x50/50 PVC conduit boxes for AC controller	No	42	
59	Supply and install P8000 trunking complete with cover plate to soffit	m	145	
60	Supply and install P8000 crossover	No	1	
61	Supply and install P8000 elbow	No	13	
62	Supply and install P8000 Tee-piece	No	6	
63	Supply and install P8000 end caps	No	2	
64	Supply and install P8000 4-way piece	No	10	
65	Supply and install 10A single phase isolator for extraction	No	11	
66	Supply and install 20A single phase isolators for aircon supply	No	68	
67	Supply and install 20A single phase isolators for hydroboil	No	2	
68	Supply and install 20A single phase isolators for hand drier power supplies	No	5	
69	Supply and install 30A single phase isolators	No	4	
70	Supply and install 30A single phase weather proof isolator for aircon supply	No	3	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 8 Lighting and Small Power - First Floor				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
71	Supply and install 40A single phase weather proof isolator for aircon supply	No	2
72	Supply and install 30A three phase isolators for aircon supply	No	2
73	Supply and install 40A three phase isolators for aircon supply	No	2
74	Supply and install 40A three phase weather proof isolator for aircon supply	No	3
75	Supply and install 40A three phase weather proof isolator for lift power supply	No	2
76	Supply and install 16A weather proof switch socket outlet	No	4
77	Supply and install Crabtree Powercomm 9 way cluster box complete with:  1 x Normal S.S.O (SANS 164-1) 1 x UPS Power Point 2 x RJ45 outlets 1 x HDMI Point	No	3
78	Supply and install Cabstrut Access floor conduit box system (205 x 287 x 79) complete with:  1 x Normal S.S.O (SANS 164-1) 1 x Normal Euro S.S.O (SANS 164-2) 1 x Dedicated S.S.O (SANS 164-4) 1 x RJ45 outlets 1 x HDMI Power Point	No	4
79	Supply and install 4m Pole comprising of the following:  2 x Normal S.S.O (SANS 164-1) 2 x Euro S.S.O (SANS 164-2) 2 x Dedicated S.S.O (SANS 164-4) 4 x Blank RJ45 outlets	No	5
<b><u>TELEPHONE AND DATA</u></b>			
80	Supply and Install Krone RJ 11 telephone outlets installed in power skirting	No	41
81	Supply and Install Krone RJ 45 data outlets installed in power skirting	No	137
<b>Carried Forward to Summary of Section No. 6</b>			R
Section No. 6			
Bill No. 8			
Lighting and Small Power - First Floor			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 9</u></b>			
	<b><u>LUMINAIRES</u></b>			
	<b><u>Supply and install the following luminaires, inclusive of lamps as per drawing No. 19034 601 0</u></b>			
1	Type A1	No	2	
2	Type A2	No	3	
3	Type A3	No	7	
4	Type A3e	No	2	
5	Type B1	No	211	
6	Type B1e	No	24	
7	Type B2	No	57	
8	Type B2e	No	13	
9	Type C1	No	159	
10	Type C1e	No	23	
11	Type C2	No	45	
12	Type C2e	No	11	
13	Type C3	No	10	
14	Type D	No	6	
15	Type E	No	16	
16	Type F	No	20	
17	Type G	No	10	
18	Type H	No	10	
	<b>Carried Forward to Summary of Section No. 6</b>			
	Section No. 6			
	Bill No. 9			
	Luminaires			
			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 6</u></b>				
<b><u>BILL NO 10</u></b>				
<b><u>EARTHING AND LIGHTNING PROTECTION</u></b>				
1	Undertake soil resistivity test, witnessed by the Engineer inclusive of submitting a typed test report/certificate	Item		
2	70 mm <sup>2</sup> PVC insulated copper earth wire	m	287	
3	Extra on last to install	m	287	
4	Earthing tails clamped to top of column rebar	No	8	
5	Bonding of earth tails to sheet trusses/roof sheeting	No	8	
6	Monitor bonding of pile caps steel to column steel	No	8	
7	Supply and install 25 mm conduit	m	84	
8	Supply and install 10 mm aluminium ridge conductor	m	89	
9	Supply and install stainless steel lugs	No	32	
10	Supply and install stainless steel bolts and nuts	No	32	
11	Supply and install stop cork box	No	32	
12	Supply and install 1.8m earth spike	No	32	
<b><u>EARTHING AND BONDING</u></b>				
13	Allowance for general electrical earthing and bonding in accordance with SABS 0142	Item		
14	Test and commissioning inclusive of test report	Item		
<b>Carried Forward to Summary of Section No. 6</b>			R	
Section No. 6 Bill No. 10 Earthing and Lightning Protection				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 6</u></b>				
<b><u>BILL NO 11</u></b>				
<b><u>UPS SYSTEM</u></b>				
1	Supply, deliver, install, test and commission UPS System as per drawing no. 19034_604_0	No	1	
2	Supply, deliver, install, test and commission UPS System as per drawing no. 19034_605_0	No	1	
3	Allowance to supply and install remote UPS's alarm panel		Item	
4	Contractor's attendance and mark up		%	
5	Supply 100A rotary bypass switch	No	1	
6	4 No. UPS services to be conducted at 6, 12, 18 and 24 months for UPS systems as per drawing 19034_604_0		Item	
7	4 No. UPS services to be conducted at 6, 12, 18 and 24 months for UPS systems as per drawing 19034_605_0		Item	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6 Bill No. 11 UPS System				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 12</u></b>			
	<b><u>STANDBY GENERATOR</u></b>			
	<b><u>The complete supply, transport to site, install, test and commission in accordance with the specification of a standby generation system.</u></b>			
	<b><u>NOTE: ONLY GENUINE ENGINE AND ALTERNATORS WITH LOCAL FACTORY BACKUP, SERVICE AND SPARES WILL BE ACCEPTED. NO "GREY" PRODUCTS FROM THE EAST WILL BE CONSIDERED (Refer schedule 17052 602) COMMISSION</u></b>			
1	Standby generator as per drawing no. 19034_602_0	No	1	
2	Standby generator as per drawing no. 19034_603_0	No	1	
3	Connection of all generator control and protection, AMF and communication information wired to terminals within the Main LV Kiosk for changeover requirements		Item	
4	The complete supply and installation of Generator Earthing as specified, including testing and commissioning the entire earthing installation as per I.E.C.standards, including re-testing as may be required after making good, and typed test certificates		Item	
5	Allowance to fill/re-fill diesel tanks after testing - Low sulphur diesel to manufacturers specification.	ltr	2,000	
6	Provisional Sum for Allowance for additional Diesel Tank		Item	80,000.00
7	4 No. generator services to be conducted at 6, 12, 18 and 24 months from hand over for generator as per drawing 19034_602_0		Item	
8	4 No. generator services to be conducted at 6, 12, 18 and 24 months from hand over for generator as per drawing 19034_602_0		Item	
	<b>Carried Forward to Summary of Section No. 6</b>			R
	Section No. 6			
	Bill No. 12			
	Standby Generator			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO 13</u></b>			
	<b><u>EXISTING INSTALLATION</u></b>			
	<b><u>Disconnect, make safe and remove the following:</u></b>			
1	Surface Fluorescent fitting	No	67	
2	Bulkhead light fitting	No	47	
3	Down lighters	No	64	
4	Allow to remove surface mounted conduit	m	412	
5	Allow to remove wiring	m	4,394	
6	Allow to remove surface mounted switch socket outlets	No	15	
7	Allow to remove recess mounted switch socket outlets	No	47	
8	Allow to remove surface mounted light switches	No	11	
9	Allow to remove power skirting	m	147	
10	Allow to remove 25 mm conduit	m	954	
11	Allow to remove 20 mm conduit	m	471	
12	Allow to remove telephone conduiting	m	217	
13	Allow to remove telephone jack point and install cover plate	No	41	
14	Allow to dispose existing equipment and material removed from site and disposed off site		Item	
15	Allow to remove all existing distribution boards	No	2	
	<b>Carried Forward to Summary of Section No. 6</b>			R
	Section No. 6 Bill No. 13 Existing Installation			



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 7</u></b></p> <p><b><u>ELECTRONIC INSTALLATION</u></b></p> <p>GENERAL NOTES</p> <p>1. This Bill of Quantities forms part of, and must be read in conjunction with the complete specification and must be submitted, duly completed, on the closing date of tenders.</p> <p>2. Tenderers must complete the Bill of Quantities and detail the unit rate and total amount of each item. The "Total" shall constitute the tender price for adjudication. Tenderers are advised to check their item extension and total additions as arithmetical errors occurring in the priced Bill of Quantities cannot be considered as having an effect on the tender amount.</p> <p>3. No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made it will not be recognised but the original wording of the Bill of Quantities will be adhered to.</p> <p>The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered.</p> <p>4. The quantities given in the Bill for cable, cable markers, earth wire laid with cable, overhead conductors, overhead earth wire and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the Bill.</p> <p>All other quantities will not be measured on site. In the event of discrepancies between the drawings, specifications and Bill of Quantities the Engineer shall decide whether the work as executed shall be remeasured on site or whether remeasurement shall be effected from the working drawings only.</p> <p>5. The Bill of Quantities is to be used for pricing and financial purposes only. The drawings take precedence over the particular (project) specification but should be used in conjunction with these specifications. The Project Specification takes precedence over quality specifications and the Bill of Quantities.</p> <p>NOTE:</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 7 Bill No. 1 Preliminaries</p>			
			R	



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>Engineer, at current rates.</p> <p>12. Unless otherwise specified in the Bill of Quantities, all items are to be priced on the basis of supply, delivery, offload, installation, connection, testing and commissioning.</p> <p>All prices are to be EXCLUSIVE OF V.A.T but inclusive of import duties, surcharges, commissions to third parties, etc., where applicable. The foregoing items, as well as the Contractor's handling, financing and profit mark-up, is not to be separately detailed, and must be included in the cost rates.</p> <p>13. Unless otherwise stated, all measurements are net, in accordance with the drawings, and no allowance has been made for wastage.</p> <p>14. The Employer reserves the right to increase or decrease the extent of the contract works, in accordance with the contract conditions, by issuing written variation instructions to omit or add, as may be required, of any item of equipment or work, whether listed in the Bill of Quantities or not, and without affecting the unit cost rates indicated in the Bill of Quantities or Preliminary and General items.</p> <p>15. In the event that Tenderers disagree with the measured quantities the tender should be qualified accordingly, listing the items and quantities in question.</p> <p>16. The unit prices quoted in the Bill of Quantities must include for small installation materials such as nuts, bolts, nails, saddles, screws etc. as are required for the satisfactory complete installation in accordance with the specification.</p> <p>17. Unless otherwise stated in the Bill, the unit cost rates shall be based on the following:</p> <p>The rate for conduit boxes and for outlet boxes up to and including 100 x 100 mm shall be the same regardless of the number of entries.</p> <p>The rate for conduit and outlet boxes shall include for fixing to the conduit with lock and bushnuts as may be required and for fixing to the building structure.</p> <p>The rate for outlet boxes shall be without covers and draw boxes shall be complete with covers and screws.</p> <p>The rate for industrial switch and plug units shall include for the relevant enclosure and fixing to conduit and building structure.</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 7 Bill No. 1 Preliminaries</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>The rate for light switches, switch plugs, dimmer units, etc., shall include for screws, cover plates and fuses/breakers where applicable and for connection of wiring thereto.</p> <p>The rate for conduit up to and including 25 mm diameter shall include all couplings, bends, boxes etc. as may be required.</p> <p>The rate for luminaires and accessories shall include for connection of the wiring thereto.</p> <p>18. All measurements are based on the most economical route lengths without any allowance for wastage, jointing or slack.</p> <p>19. In the case of wiring in conduit, an allowance of 300 mm per wire outlet box position has been made and in the case of cables and wiring entering switchboards, an allowance of 1000 and 2000 mm has been made for termination purposes in sub-distribution and main distribution boards respectively.</p> <p>20. It should be noted that, notwithstanding anything to the contrary, any items completed or listed in the Bill of Quantities by the Tenderer will not be taken into account, will not be subject to re-measurement, and will not be regarded as a Bill of Quantities item.</p> <p>21. Where equipment is specified by name, the tenderer must price on this basis. Alternatives may be offered by tenderers but the use of which is subject to written approval by the Engineer.</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 7 Bill No. 1 Preliminaries</p>		<p style="text-align: center;">R</p>	
			<p style="text-align: center;">R</p>	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
<b><u>BILL NO 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>The costs for the following items shall not be included in the cost rates for work listed in the rest of the Bill of Quantities.</u></b>			
1	Cost for compliance with Main Contractor's preliminary and general items not covered below.	Item	
2	Contractual requirements as specified, i.e guarantees, insurance, sureties, company's overheads administration etc.	Item	
3	Contract engineer, administration, supervision, programming and management.	Item	
4	Establish site accommodation, storage etc.	Item	
5	Maintain and operate site establishment.	Item	
6	Remove site establishment on completion and remove all rubbish, dirt, offcuts , etc, and leave site in condition as found. Allow to touch up paintwork if required	Item	
7	Tools, equipment, plant hire and testing equip/meters as necessary.	Item	
8	Maintenance and guarantee of the complete installation including fitting, material and workmanship for a period of twelve months from date of practical completion as specified.	Item	
9	Extension of maintenance and guarantee for above complete installation by an additional 12 months, to a total of 24 months.  Note, this includes all equipment, hardware, firmware, software and cabling	Item	
10	3 Sets of as-built drawings, maintenance manuals and wiring diagrams	Item	
11	Other items not included in the foregoing and required by the Contractor are to be listed and priced below.	Item	
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7 Bill No. 1 Preliminaries			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 7</u></b>				
<b><u>BILL NO 2</u></b>				
<b><u>GENERAL ITEMS</u></b>				
<b><u>GENERAL</u></b>				
1	System programming during 12 month guarantee period - for technician / programmer (ie. Post practical completion)	Hrs	40.00	
2	Client Training during 12 month guarantee period - for technician / programmer (ie. Post practical completion)	Hrs	10.00	
3	Allowance to provide samples for Engineers / Architects /client approval		Item	
4	Allowance for liaison with various sub-contractors in regard to final installation requirements, equipment connection etc.		Item	
5	Supervise / Liaise with builder during construction of cores, recesses and penetrations in concrete and brickwork to ensure they are formed in the correct positions		Item	
6	General labelling of equipment and cables not covered elsewhere		Item	
7	Allow for after hours (outside trading hours) work as required		Item	
<b><u>TESTING &amp; COMMISSIONING</u></b>				
8	Testing, commissioning and documentation of complete installation.		Item	
9	Test complete installation in conjunction with the other services, viz., Electrical, air-conditioning security system, fire protection, domestic water pumps, lifts smoke extract fans etc. as specified		Item	
<b><u>HANDOVER</u></b>				
10	Provide As Built drawings, Operation and Maintenance Manuals and wiring diagrams (3 sets hard copy, 1 electronic)		Item	
<b>Carried Forward</b>			R	
Section No. 7 Bill No. 2 General Items				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
<b><u>EXISTING INSTALLATIONS</u></b>		Item	
11	Strip out existing smoke detection and PA installation		
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Bill No. 2			
General Items			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 3</u></b>			
	<b><u>SMOKE DETECTION AND ALARM</u></b>			
	<b><u>SUPPLY, INSTALL, TEST AND COMMISSION SMOKE DETECTION AND FIRE ALARM SYSTEM COMPLETE WITH ALL HARDWARE, SOFTWARE, TERMINATIONS, FIXINGS ETC.</u></b>			
	<b><u>ZITON ZP2 OR EQUAL APPROVED SMOKE DETECTION SYSTEM</u></b>			
	<b><u>CENTRAL EQUIPMENT</u></b>			
1	Addressable analogue fire panel complete with batteries (4 - loop)	No	2	
2	Additional Proprietary Comms Network cards for above panels	No	2	
3	Additional Internet Protocol (RJ45) communication cards for above panels	No	2	
4	Programming of fire panels as specified including graphics, to include all devices, zoning, loops and fire condition sequencing, based on 700 devices		Item	
5	Allowance to upload Autocad (dwg) drawings as backgrounds for the graphic displays. This includes "cleaning up" of the drawings	No	2	
	<b><u>FIELD EQUIPMENT</u></b>			
6	Addressable optical detector complete with base on ceiling (white)	No	75	
7	Addressable optical detector complete with base in ceiling void (white)	No	15	
8	Addressable heat detector complete with base on concrete soffit below 4 m (white)	No	10	
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 3 Smoke Detection and Alarm			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
9	Addressable rate of rise heat detector complete with base mounted under raised floor	No	2
10	Addressable combination smoke and thermal detector complete with base on ceiling (white)	No	2
11	Addressable pre-set heat detector complete with base on ceiling	No	2
12	Addressable line isolator	No	10
13	Addressable line I/O relay complete in junction box	No	10
14	Allowance to connect line relays to override access control mag locks on escape doors, air handling units, elevators, smoke extraction fans etc.	No	6
15	Addressable surface mounted call point with resettable element (red)	No	12
16	Addressable sounder base complete with cap ceiling (white)	No	12
17	Addressable sounder indicator complete with base on ceiling (white/red)	No	2
18	Addressable sounder with strobe indicator complete with base on ceiling (white/red)	No	12
19	Door hold-open surface mount magnet complete with stainless steel wall mount universal adjustable brackets and emergency release button and door anchor plate (400 N)	No	1
20	24 V AC/DC 250 mA power supply unit connected to main and door magnet located in ceiling void	No	1
<b><u>FIRE INTERCOM SYSTEM (SUPPLY AND INSTALL)</u></b>			
21	Master Station installed at reception	No	1
22	2 hours fire rated phones installed in refuge area	No	4
<b><u>CABLING</u></b>			
23	Loop cable 1.5 mm <sup>2</sup> 2 core fire resistant (red) cable (PH 120)	m	122
24	Terminate the above cable	No	12
<b>Carried Forward</b>			R
Section No. 7 Bill No. 3 Smoke Detection and Alarm			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R	
25	Loop cable 2.5 mm <sup>2</sup> 2 core fire resistant cable (PH 120)	m	847		
26	Terminate the above cable	No	121		
27	Networking cable (fire resistant) Master Controller to sub controllers and remote display panels (PH 120)	m	250		
28	Terminate the above cable	No	2		
29	System training with staff	No	1		
<b>Carried Forward to Summary of Section No. 7</b>				R	
Section No. 7					
Bill No. 3					
Smoke Detection and Alarm					

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 4</u></b>			
	<b><u>AUDIO VISUAL SYSTEM</u></b>			
	<b><u>Supply, install, test and commission Audio Visual system complete with all hardware, software, connectors, adapters fixings, power supplier, cables, consumables and all materials to complete the installation inclusive of all required patch cables, outlet boxes, mounting brackets and converters</u></b>			
1	Allow for the complete setup, configuration, testing and design for all audio visual requirements in the Colloquium Room, Auditorium Room 1 & 2, boardroom and Skype rooms as laid out in the items below:	Item		
	<u>COLLOQUIUM ROOM - AUDIO</u>			
2	Bosch (CCSD-CURD) Control unit with recorder and DAFS	No	1	
3	Bosch (CCSD-DL) Discussion device with long microphone	No	20	
4	Bosch (LBB4116/10) - System extension cable, 10m	No	2	
5	Bosch (LBB4116/20) -System extension cable, 20m	No	1	
6	Symetrix (80-0127) Solus NX 16x8 DSP	No	1	
7	Sennheiser (SEN-005076) MZH 3040 - Gooseneck, black, 400mm, XLR 3, for ME34, 35, 36	No	3	
8	Sennheiser (SEN-005063) ME 35 - black, super cardoid condenser capsule, for MZH gooseneck	No	3	
9	Sennheiser (SEN-505624) MAT 133-S Tabelstand with switch for gooseneck microphone	No	3	
10	Sennheiser (SEN-507892) EW 100 G4-835-S-D wireless vocal set	No	1	
11	Sennheiser (SEN-507885) EW 100 G4-C11-D wireless instrument set	No	1	
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 4 Audio Visual System			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
12	DPA (4088-DC-A-B00-LH) Dfine CORE 4088 directional headset mic, black, microdot	No	1
13	Ashly (TRA-4150) power amplifier 4x150W @ 4 ohms with XFMR isolated 25V, 70V & 100V outputs	No	1
14	Electro Voice (Zxli-100T) - 8" 2-way, 200W, 100x100 degree install version, 100V transformer, SAM, black, EN54-24	No	4
15	Electro Voice (EVID C4,2) - 4" coax, 75W (8 ohms) / 100V (3,75 / 7,5 / 15 / 30W), 130 degree, pair	No	6
16	Speaker cable (2 x 1,5mm)	No	100
17	Single pair microphone cables	No	50
18	Set Audio patch cables	No	1
<u>COLLOQUIUM ROOM - VIDEO</u>			
19	Kramer TBUS - 203XL module	No	11
20	Kramer TBUS inserts for above (1 No. SA Power outlet, 1 No. euro outlet, 1 No. HDMI outlet, 1 No. RJ45 outlet and 1 No. USB)	No	11
21	Kramer (CABKRT3H) HDMI cable retractor	No	8
22	Kramer (KRAPT8712XRKIT) 4K HDR HDMI compact POC extender Tx Rx kits	No	8
23	Kramer (KRATP580T) HDMI BD RS232 and IR over HD base TP transmitter	No	3
24	Kramer (KRATP580R) HDMI BD RS-232 and IR over HD base TP receiver	No	5
25	Kramer (KRAV411UHD) 4x1 automatic 4K60 4:2:0 HDMI auto switcher	No	3
26	Kramer (KRAV84UHD) 8x4 4K60 4:2:0 HDMI matrix switcher	No	1
27	Kramer (KRAWPH1M) passive wall plate - HDMI	No	1
28	Kramer (KRAFC46XL) HDMI Audio De-Embedder	No	1
<b>Carried Forward</b>			R
Section No. 7 Bill No. 4 Audio Visual System			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
29	Panasonic (AW-HE40SKEJ9) - Professional HD robotic PTXZ camera with 30x lens and SDI out - to be controlled by Bosch CCS1000 system	No	4
30	Panasonic (AW-HE40SKEJ9) - auto tracking software for 2 No. camera	No	2
31	Canon Legria HF-G26 camcorder	No	1
32	Kramer (KRAMV6) - 3G HD-SDI scaling switcher controlled by Bosch CCS1000 system	No	1
33	BMD - HDMI to SDI converter	No	1
34	Elite (ELIElectric 125H) Spectrum Elect (16:9) 277x156 max white	No	3
35	Epson (EB-L510U) Laser projector 5000Lm WUXGA	No	3
36	Crestron (GLS-ODT-C-CN) occupancy sensor	No	1
37	Crestron (TSW 1060-B-S) Touch panel	No	3
38	Extron Media Port 200	No	1
39	Crestron (RMC3) - Room media controller	No	3
40	HP Aruba 2430 24G switch	No	1
41	Belden (1505A) SDI cable	m	200
42	BMD (SDI to HDMI converter)	No	1
43	34U Rack with internal power distribution	No	1
<u>AUDITORIUM ROOMS 1 &amp; 2 / BOARDROOM 1,2 &amp; SKYPE ROOM</u>			
44	NEC Projector (NECME382U)	No	5
45	Elite Spectrum Electric Screen (ELIELECRIC100XH)	No	4
46	Kramer Stereo Power Amp/Mixer 40W (KRA907XL)	No	4
<b>Carried Forward</b>			R
Section No. 7 Bill No. 4 Audio Visual System			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R	
47	Kramer 6,5" closed back - 2 way ceiling speaker (KRASPKGALIL6C PAIR)	No	4		
48	Kramer TBUS - 203XL module	No	4		
49	Kramer TBUS inserts for above (1 No. SA Power outlet, 1 No. euro outlet, 1 No. HDMI outlet, 1 No. RJ45 outlet and 1 No. USB)	No	4		
50	Kramer Presentation Switch/scale (KRAVP440)	No	4		
51	Kramer HDMI BD RS232 & IR Over HDBase TP Receiver (KRATP580R)	No	4		
52	Kramer 3m MLD micro VGA to VGA+MP SA (CABCMGMAMGMA10)	No	4		
53	Kramer 3m flexible high speed HDMI ethernet cable (CABKCMHMMHM10)	No	4		
54	Kramer display port (m) to HDMI (m) adapter cable 3m (CABCDPMHMHUHD10)	No	4		
55	Kramer 0,9m Ultra Slim High Speed HDMI cable (CABCHMHPICOBK3)	No	4		
56	65" Samsung QLED Smart TV QA65Q70RAKXXA	No	1		
57	Budgetary allowance for Skype Camera		Item		25,000.00
58	Budgetary allowance for TV stand to house camera equipment		Item		25,000.00
<b>Carried Forward to Summary of Section No. 7</b>				R	
Section No. 7					
Bill No. 4					
Audio Visual System					

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 5</u></b>			
	<b><u>CCTV</u></b>			
	<b><u>Supply, install, test and commission cctv system (HIK Vision or equivalent and equivalent and equally approved) complete with all hardware, software, connectors, adapters, fixings, power supplier, cables, consumables and all materials to complete the installation:</u></b>			
1	Network Video Recorder (64 channel) - iDS-9664NXI-I8/X(B)	No	1	
2	8TB SATA 6Gb/s hard drive - WD4NPURX	No	4	
3	Video Management System Software and licences for 64 cameras	No	1	
4	Video and audio decoder for up to 4 monitors - 6904UDI	No	1	
5	46" control room monitor suitable for 24 hour, 7 days a week operation complete with universal wall brackets	No	2	
6	Desktop PC with i7 processor, 16GB RAM, 1TB SSD storage, 4TB SATA storage, GTX 1070 graphics card, 24" monitor, wireless mouse and keyboard, complete with Windows 10 ect	No	1	
7	CAT 6 - HDMI to RJ45 and R45 to HDMI network extender converter	No	5	
	<u>Cameras complete with all mounting equipment etc.</u>			
8	Camera Type A - 4 MP PTZ - DS-2DE5225IW-AE	No	2	
9	Camera Type B - 4 MP Bullet - DS-2CD2645FWD-IZS	No	16	
10	Camera Type C - 4 MP surface dome - DS-2CD2754FWD-IZS	No	14	
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 5 CCTV			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

		<b>Brought Forward</b>		R
		<u>Supply and installation of cable and wiring on cable basket/trunking in ceiling void or drawn into conduit as specified, including labels at both ends. Cabling from switch to field devices</u>		
11	Krone Category 6 UTP - Blue in colour	No	910	
12	Termination of Krone UTP CAT 6 onto patch panels	No	32	
13	Termination of Krone UTP CAT 6 onto RJ45 at camera end	No	32	
<b>Carried Forward to Summary of Section No. 7</b>				R
Section No. 7				
Bill No. 5				
CCTV				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 7</u></b>				
<b><u>BILL NO 6</u></b>				
<b><u>IT NETWORK</u></b>				
<b><u>Supply, install, test and commission IT Network complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all material to complete the installation as intended</u></b>				
1	Performance testing of network to specification using IETF RFC 2544 compliant test equipment. Test every switch / core / router combination. Record and report on results	Item		
2	Configuration of network to achieve performance as per specification ( based on IETF RFC 2544 ), based on a Layer 3 Distribution with Layer 3 Access topology using OSPFv2 routed links between access and distribution levels, and a single (IGP) control plane to configure/manage	Item		
3	Software Application Support & Annual Equipment Licence for all Dell products for a two year period. Firmware / software support & any licences allowing all upgrades & support for the equal network products for two years. Contracts will begin when Equipment commissioned, NOT when equipment purchased.	Item		
<b><u>Supply, install, test and commission IT Network complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all material to complete the installation as intended. Connect the temporary server room where ICT and Finance Units are situated, with the new server room. New fibre to be primary installation and current fibre to be used as back up.</u></b>				
4	19 inch 43 U Cabinet - 1000mm deep - painted mild steel floor standing cabinet with glass front door, steel rear door, rear ventilation, adjustable feet, bottom and top cable entry, fixed shelf, 12 No. 1U blanking panels, 9 No. 1U brush panels, 2 No. 10 way power adaptors, 2 No. vertical cable management trays, fan tray with 4 fans, ground bonding kit and door locks.	No	4	
<b>Carried Forward</b>			R	
Section No. 7 Bill No. 6 IT Network				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
5	48 Way modular (populated) UTP Cat 6 patch panel. Complete with mimic labels	No	12
6	Universal 1U filler panels	No	20
7	Universal 1U short base brush panel	No	15
8	Fibre splice panel sliding tray (empty)	No	15
9	Sundry items including cable ties, raw bolts, brother tape, velcro wrap, chemical anchors, cleaning material		Item
10	Dell S4128F Core Switch, 24 SFP+ Fixed Ports, 4 x QSFP 2x QSFP+, IO to PSU, OS10 1 x hot spot modular bay, 2 x power supplies included.	No	2
11	Dell Networking N2248PX Layer 2+ switch, POE+, 48 x 1Gbe + 4 x SFP28 fixed ports, IO to PSU, complete with stacking module and 1m stacking data and power cable, inclusive of all mounting brackets.	No	7
12	2000 W Hot swappable redundant power supply for above	No	2
13	Dell N1548P 1000 48 Port 10/100/1000 POE+ Switch, 4 x SFP's integrated 600W PSU, complete with stacking module and 1m stacking data and power cable.	No	2
14	Rack mounted server Dell Power Edge R740 complete with the following: - Hot swappable redundant power supply - 480 GB SSD SATA Drive internal - 8 No. 8TB 2,5" SATA hard drives - 6No. 64GB DDR4 RAM	No	1
15	Dell 10GbE SM SFP+ (<500m) for switches above	No	20
	<b><u>FIBRE</u></b>		
16	Single mode Optic Fibre Communication Cable 9/125nm outdoor installation type LSZH outer sheath, gel filled tubes, non metallic strength member 6 pair (12 core)	m	321
17	Single mode fibre termination - Per pair: Termination of fibres at both ends using LC connectors	No	42
18	Single mode fibre splicing - Per pair	No	42
<b>Carried Forward</b>			R
Section No. 7 Bill No. 6 IT Network			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
19	Midcoupler module - LC DX 6 port - OM3 10 APPL	No	42
20	Unjacked pigtailed - Duplex LC - Single Mode	No	42
21	OTDR Test & Certificate		SUM
22	Label backbone cable (heat shrink labels on each end)		SUM
<b><u>COPPER</u></b>			
23	Krone Cat 6e UTP link as per specification, including average of 85 metre cable run, shuttered RJ45 outlet in plate to suite (Crabtree Diamond Range) at terminal end, and termination into patch panel in rack at access switch end. Includes installation in cable ways (cable ways by others), termination, labelling, testing, and certification to EIA or ISO spec. Allowance for different colours (green, blue, yellow, grey)	No	300
<u>Krone Cat 6e UTP Patch Leads ( Fly Leads ) - Provide sets of Factory assembled multi-strand cable with 8P8C (RJ 45) connectors</u>			
24	2 m (green)	No	100
25	2 m (yellow)	No	100
26	2 m (grey)	No	100
27	2 m (blue)	No	100
<b><u>WIRELESS</u></b>			
<u>Supply, install, test and commission WiFi AP;s complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all material to complete the installation as intended</u>			
28	HPE Aruba Instant IAP-305 (RW) Radio Access Point JX945A.	No	30
<b><u>MONITORING</u></b>			
29	Supply and install Avtech Room Alert 32E monitor	No	2
<b>Carried Forward</b>			R
Section No. 7 Bill No. 6 IT Network			



**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 7</u></b>			
	<b><u>ACCESS CONTROL</u></b>			
	<b><u>Supply, install, test and commission ZKT InBio (or equivalent and equivalent and equally approved) access control and intercom system complete with connectors, adapters, fixings, power sockets, cables, consumables and all material to complete required</u></b>			
	<u>Control room equipment complete with all power supplies and mounting equipment.</u>			
1	Programing and enrolment station, PC (I5 processor, 8 Gb RAM 500 Gb SSD storage, Windows 10, Office and Acrobat) with 21" monitor, mouse, keyboard etc.	No	1	
2	Biometric fingerprint enrolment reader	No	1	
3	ZKT FR1200 reader	No	1	
4	Set up and program access control software for 250 users and 50 No. doors (ZKT InBio)		Item	
	<u>Door control complete with all mounting equipment to be located in either the IT Riser or ceiling void, junction boxes provided by others</u>			
5	Cluster Controller with 4 No. Wiegand reader modules connected on the cluster bus.	No	1	
6	Cluster Controller with 2 No. Wiegand reader modules connected on the cluster bus.	No	6	
7	Wiegand reader module	No	10	
8	ZKT SF300 biometric and tag reader	No	10	
9	600kg surface mounted monitored maglock with LED	No	15	
10	ZL bracket for maglock	No	15	
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 7 Access Control			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
11	No touch exit sensor	No	10
12	Green break glass unit (re-settable), connected to mag lock	No	10
	<u>Supply and installation of cable and wiring on cable basket in ceiling void or drawn into conduit as specified, including all labels and terminations at both ends.</u>		
13	Krone Category 6 UTP - green in colour	m	804
14	Krone termination of UTP Cat 6	No	40
15	8 twisted pair PVC insulated mylar cable. 0.22mm <sup>2</sup> stranded tinned copper cores. Aluminium polyester shield and drain.	m	813
16	Termination of above cable	No	40
17	2 core PVC insulated cable. 1mm <sup>2</sup> stranded copper cores.	m	213
18	Termination of above cable	No	12
19	24V power supply complete with 2 hour battery back up	No	10
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Bill No. 7			
Access Control			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 8</u></b>			
	<b><u>IP TELEPHONES</u></b>			
	<b><u>Supply, install, test and commission IP Telephone system complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all materials to complete the installation:</u></b>			
1	Yealink T40P IP Phone	No	56	
2	Krone Category 6 UTP - Yellow in colour	m	1,220	
3	Krone termination of UTP Cat 6	No	56	
	<b>Carried Forward to Summary of Section No. 7</b>			R
	Section No. 7 Bill No. 8 IP Telephones			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
<b><u>SECTION 7</u></b>				
<b><u>BILL NO 9</u></b>				
<b><u>ALARM SYSTEM</u></b>				
<b><u>Supply, install, test and commission the Alarm system complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all materials to complete the installation:</u></b>				
1	IDS X64, 8 Zone expandable to 64 zone control panel including transformer (860-AF1-X64MT)	No	1	
2	IDS X Series - 16 Zone LED Curve Series Keypad (860-03-XN16-IDS)	No	2	
3	IDS Xsms Module compatible with X-Series Control Panels (860-36-0485-1)	No	2	
4	IDS Xwave Bi-directional 5-button remote (860-22-REM5)	No	1	
5	IDS Xseries Bus receiver (860-07-X02-DI)	No	1	
6	IDS X-series 8 Zone Plug in expander module (860-06-X-08PI)	No	5	
7	IDS X64, 8 zone wired bus expander module (860-06-X-08S)	No	5	
8	X-SPS Smart Power Supply (860-01-0537)	No	1	
9	OPTEX Xwave2 Bi-directional WNX Wireless PIR (862-22-WNX-40PI-T)	No	12	
10	OPTEX Indoor 360 degree detector (862-01-FX)	No	5	
11	OPTEX Xwave CX Wired Long Range PIR (862-01-CX-702C)	No	5	
12	OPTEX CDX Wired Commercial Indoor Detector (862-01-CDX)	No	5	
13	Fixed panic button (862-26-002)	No	10	
<b>Carried Forward</b>				R
Section No. 7 Bill No. 9 Alarm Systems				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
14	Heavy duty door contact (862-34-002)	No	10	
15	Magnetic switches (IDS 862-25-100/200)	No	20	
16	IDS 12V 8Ah battery (862-20-GEL8)	No	2	
17	0,2mm rip cord	m	5,000	
18	Stranded alarm comms cable (10core)	m	200	
<u><b>Supply, install, test and commission the Alarm system complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all materials to complete the installation:</b></u>				
19	30W siren (862-02-0990)	No	8	
20	3amp power pack (862-15-12V3APP)	No	1	
21	10 beam IR barrier set (862-06-10S100)	No	8	
22	OPTEX BX80 Wired detector (86201-BX80NC)	No	8	
<b>Carried Forward to Summary of Section No. 7</b>				R
Section No. 7				
Bill No. 9				
Alarm Systems				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 10</u></b>			
	<b><u>ELECTRICAL FENCE</u></b>			
	<b><u>Supply, install, test and commission the electric fence complete with all hardware, software, connectors, adapters, fixings, power supplier, cables, consumables and all materials to complete the installation:</u></b>			
1	Mains/ battery Energiser Unit complete with digital display and 56 Joule stored capacity, Inclusive of limiting devices (Stafix M36 or equivalent and equivalent and equally approved) (Sans 10222-3 & Sans 60335-2-76 approved)	No	2	
2	Relay for 4 Zone Mimic Panel	No	2	
3	230 V battery backup power supply unit for the unit above	No	2	
4	4 Zone low voltage Monitor	No	2	
5	Fence fault alarm sounder	No	4	
6	Red night light Pulsar	No	20	
7	Angled squares tubed wall mounted galvanised bracket complete with bobbins	No	110	
8	Strain/line insulators and tensioning springs	No	110	
9	6 wire T pole assembly with strain insulators	No	110	
10	Tensioning springs	No	110	
11	A-marine grade 2mm 316 stainless steel wire. (Inclusive of joints etc)	m	1,986	
12	Low resistance aluminium 2.7mm HT cable terminated to fence as required	m	331	
13	Pair of gate contacts and accessories for 6m sliding gate	No	1	
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 10 Electric Fence			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
14	Pair of gate contacts and accessories for swing gate	No	1
15	Copper earth spike inclusive of clamp (1200mm x 10mm dia)	No	70
16	PVC earth test point box with hinged lid	No	51
17	PVC insulated copper Earthing down conductor including terminations through test box to earth spike.	No	51
18	Cross bonding of Galvanised fence with 10mm PVC insulated copper cable including 2 No, terminations	No	51
19	25mm dia PVC surface mounted conduit	No	92
20	32mm dia PVC Conduit buried in trench	No	73
21	50mm dia UPVC Sleeve buried in ground	No	12
22	Provide SANS 10222 & SANS 60335-2-76 approved warning signs secured to fence	No	40
23	Test and commissioning inclusive of test report witnessed by Umalusi staff. (Allow 1 week Notice)	No	1
24	Testing of electric fence & Issue certificate of compliance in accordance with SANS10222-3 & SANS60335-2-76	No	1
25	Provision of as built drawing and maintenance documentation	No	1
26	Provision of A3 drawing indicating zoning of electric fence	No	1
27	Budgetary allowance for additional earthing and monitoring requirements	No	40
28	Supply & Install lightning protection device in accordance with Sans 10222-3 & Sans 60335-2-76	No	40
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7			
Bill No. 10			
Electric Fence			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 7</u></b>			
	<b><u>BILL NO 11</u></b>			
	<b><u>EXISTING SERVER ROOM</u></b>			
	<b><u>Supply, install, test and commission IT Network complete with all hardware, software, connectors, adapters, fixings, power supplies, cables, consumables and all material to complete the installation as intended in the existing server room replacement of equipment and cabinets only. Existing cabling, fibre and other equipment to remain.</u></b>			
1	19 inch 43 U Cabinet - 1000mm deep - painted mild steel floor standing cabinet with glass front door, steel rear door, rear ventilation, adjustable feet, bottom and top cable entry, fixed shelf, 12 No. 1U blanking panels, 9 No. 1U brush panels, 2 No. 10 way power adaptors, 2 No. vertical cable management trays, fan tray with 4 fans, ground bonding kit and door locks.	No	4	
2	24 Way modular (populated) UTP Cat 6 patch panel. Complete with mimic labels	No	24	
3	Universal 1U filler panels	No	24	
4	Universal 1U short base brush panel	No	24	
5	Fibre splice panel sliding tray (empty)	No	24	
6	Sundry items including cable ties, raw bolts, brother tape, velcro wrap, chemical anchors, cleaning material		Item	
7	Dell S4148F Core Switch, 48 SFP+ Fixed Ports, 4 x QSFP 2x QSFP+, IO to PSU, OS10 1 x hot spot modular bay, 2 x power supplies included.	No	2	
8	Dell Networking N2224PX switch, POE+, 24 x 1Gbe + 4 x SFP28 fixed ports, complete with stacking module, 1m stacking data, power cables, mounting brackets	No	24	
9	2000W Hot swappable redundant power supply for above	No	2	
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 11 Existing Server Room			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

10	<p style="text-align: right;"><b>Brought Forward</b></p> <p>Rack mounted server Dell Power Edge R740 complete with the following:</p> <ul style="list-style-type: none"> <li>- Hot swappable redundant power supply</li> <li>- 480 GB SSD SATA Drive internal</li> <li>- 8 No. 8TB 2,5" SATA hard drives</li> <li>- 6No. 64GB DDR4 RAM</li> </ul> <p style="text-align: right;">No</p>	2	R	
<p><b>Carried Forward to Summary of Section No. 7</b></p> <p>Section No. 7 Bill No. 11 Existing Server Room</p>			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Bill No	<b>SECTION SUMMARY - Electronic Installation</b>	Page No		Amount
1	Preliminaries	283		
2	General Items	285		
3	Smoke Detection and Alarm	288		
4	Audio Visual System	292		
5	CCTV	294		
6	IT Network	298		
7	Access Control	300		
8	IP Telephones	301		
9	Alarm Systems	303		
10	Electric Fence	305		
11	Existing Server Room	307		
	<b>Carried to Final Summary</b>			
	Section No. 7		R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 8</u></b></p> <p><b><u>MECHANICAL INSTALLATION</u></b></p> <p><b><u>BILL NO 1</u></b></p> <p><b><u>HVAC INSTALLATION (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p> <p>The Tenderer is referred to Engineer's specifications and drawings for the Umalusi HVAC Installation, issued together with these bills of quantities when pricing the items below.</p> <p><b><u>GENERAL ITEMS</u></b></p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 8 Bill No. 1 HVAC Installation (Provisional)</p>			
			R	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R	
<b><u>The costs for the following items shall not be included in the cost rates for work listed in the rest of the Bill of Quantities:</u></b>				
1	Contractual requirements as specified, i.e. guarantees, insurance, sureties, company's overheads administration etc.	Item		
2	Contract engineer, administration, supervision, programming and management.	Item		
3	Establish site accommodation, storage etc.	Item		
4	Maintain and operate site establishment.	Item		
5	Remove site establishment on completion and remove all rubbish, foundations, concrete bases, dirt, oil spillage, etc., and leave site in condition as found.	Item		
6	Tools, equipment, plant hire and testing gear/meters as necessary	Item		
7	Maintenance and guarantee of the complete installation for a period of twelve months from date of completion and handover	Item		
8	Certificate to be issued on completion of the project in addition to detailed testing as specified - electrical compliances etc.	No	1	
9	4 (Four) hard copy sets of as-built drawings and manuals plus electronic copy	Sets	4.0	
10	Shop drawings	Item		
11	Commissioning of the Air conditioning & Ventilation system (including commissioning by Samsung specialist)	Item		
12	Compliance with the OHS Act	Item		
13	Other items not included in the foregoing and required by the Contractor are to be listed and priced below.	Item		
<b><u>BUDGETARY ALLOWANCES</u></b>				
14	Allow the sum of R200 000.00 for any and all sundry works associated with the installation of HVAC works	Item		200,000.00
<b>Carried Forward</b>			R	
Section No. 8 Bill No. 1 HVAC Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

	<b>Brought Forward</b>		R		
15	<p>Allow the sum of R10 000.00 for the removal of existing equipment, ducting and piping installed on site all items to be handed over to client maintenance services</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 8 Bill No. 1 HVAC Installation (Provisional)</p>	Item		10,000.00	

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<b><u>AIR CONDITIONING AND VENTILATION - GROUND FLOOR</u></b>				
NOTE: all Bill items - where brand names are given alternatives will be accepted as long as they are equivalent and equivalent and equally approved				
<b><u>Total VRF Equipment to Entire Building - Samsung DVM S</u></b>				
<u>Outdoor Units - Samsung DVM S - (equivalent and equivalent and equally approved) Equipment includes all comms wiring to indoor units and wiring to electrical isolators provided by electrician</u>				
16	AM120FXVAGR	No	1	
17	AM140FXVAGR	No	1	
18	AM200FXVAGR	No	1	
19	AM220FXVAGR	No	2	
<u>Ceiling mounted cassette - complete with decoration panel</u>				
20	AM028NN1DEH - 1 way cassette wind free	No	25	
21	AM036NN1DEH - 1 way cassette wind free	No	5	
22	AM056NN1DEH - 1 way cassette wind free	No	4	
23	AM071NN1DEH - 1 way cassette wind free	No	2	
24	AM071NN4DEH - 4 way cassette wind free	No	6	
25	AM090NN4DEH - 4 way cassette wind free	No	11	
26	AM045NNNDEH - 4 way cassette wind free (600x600)	No	1	
<u>Controllers</u>				
27	Hard wired controller for AC units - MWR-SH00N	No	46	
28	Central Controller - MCM-A300N	No	1	
Carried Forward				R
Section No. 8 Bill No. 1 HVAC Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
<u>Branch/Header/Common pipe</u>				
29	MXJ-YA2815M	No	4	
30	MXJ-YA3419M	No	2	
31	MXJ-YA4119M	No	1	
32	MXJ-YA2512M	No	3	
33	MXJ-YA2812M	No	2	
34	MXJ-TA3419M	No	2	
35	MXJ-YA2500M	No	9	
36	MXJ-YA3100M	No	3	
37	MXJ-TA3100M	No	2	
<u>MCU Units</u>				
38	MCU-S2NEK2N	No	5	
39	MCU-S6NEK2N	No	3	
40	MCU-S4NEK3N	No	7	
<u>Refrig. Pipe including insulation, &amp; labelling of pipework for each system</u>				
41	Piping 6.35	m	280	
42	Piping 9.52	m	180	
43	Piping 12.7	m	310	
44	Piping 15.88	m	207	
45	Piping 19.05	m	68	
46	Piping 22.22	m	62	
47	Piping 28.58	m	98	
<b>Carried Forward</b>				R
Section No. 8 Bill No. 1 HVAC Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
48	Piping 34.92	m	35	
49	Piping 41,28	m	21	
	<u>Corrosion Treatment: Blue Chem treatment - (coils, unit casings, use stainless steel screws and nylon washers, five year warranty/guarantee to be provided</u>			
50	AM120FXVAGR	No	1	
51	AM140FXVAGR	No	1	
52	AM200FXVAGR	No	1	
53	AM220FXVAGR	No	2	
	<u>Extra Refrigerant charge required</u>			
54	R410 extra	kg	56	
	<u>Cable Tray Supports for Refrig. Pipes</u>			
55	300 wide	m	270	
56	600 wide	m	60	
	<u>Sheet metal covers for exposed Refrig. External of building</u>			
57	Square meterage	m2	20	
	<u>Drains - uPVC c/w fittings and hangers - entire building</u>			
58	25 dia	m	190	
59	30 dia	m	50	
60	50 dia	m	42	
	<u>Galvanized Sheet metal ducting - un-insulated</u>			
61	Complete with fittings, hangers, clamps etc. - 0.6mm - square meterage inclusive of area over fittings	m2	115	
	<u>Flexible Ducting - wire reinforced flexible ducting un-insulated</u>			
62	150 dia	m	60	
<b>Carried Forward</b>				R
Section No. 8 Bill No. 1 HVAC Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
63	250 dia	m	8
	<u>Fan Schedule - c/w flanges, flex connections &amp; anti-vibration mounts, controllers for fans, field wiring, field components, transmitters, conduit, trunking, etc.</u>		
64	SAF-1 - Systemair axial flow fan, 0,37kW @ 150 Pa - AXC 500-10/10° -4 - 600 l/s including 2-off 2D silencers for intake and discharge sides	Sets	1.0
65	SAF-2 - Systemair axial flow fan, 0,37kW @ 120 Pa - AXC 355-10/20° -4 - 400 l/s including 2-off 2D silencers for intake and discharge sides	Sets	1.0
66	EAF-1 - Systemair Prio silent fan - 0.2 kW @ 120 Pa Prio Silent 315EC - 550 l/s	Sets	1.0
67	EAF-2 - Systemair Prio silent fan - 0.18 kW @ 150 Pa - Prio Silent 250EC-L - 400 l/s including 1-off LDC 250-900 silencer	Sets	1.0
68	EAF-3 - Ceiling Mounted extract fan - 300dia	No	1
69	EAF-4 - Systemair through wall fan - BF-W 230A	No	1
70	EAF-5 - Systemair Prio silent fan - 0.08 kW @ 100 Pa - Prio Silent 150EC - 60 l/s	Sets	1.0
	<b><u>ELECTRICAL BOARDS</u></b>		
	<u>FAN DB's:</u>		
71	ACDB 1 - detailed on drawing		Item
	<u>Grille/Louver Schedule - c/w wire mesh screen</u>		
72	WL1 - Aluminium weather louvre - 600x600	No	1
73	WL2 - Aluminium weather louvre - 600x400	No	1
74	WL3 - Aluminium weather louvre - 200x200	No	1
75	RG1 - Aluminium Filter frame type return air grille - 600x600 c/w plenum, 250 dia spigot	No	8
76	SV1 - Supply air disc valve - dia 150, c/w dia 150 balancing damper	No	5
	<b>Carried Forward</b>		
	R		
	Section No. 8 Bill No. 1 HVAC Installation (Provisional)		

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
77	DV1 - Extract air disc valve - dia 150	No	2	
78	DV2 - Extract air disc valve - dia 150	No	4	
79	EG1 - Aluminium extract air grille - 300x200 c/w plenum and 150dia spigot	No	5	
80	EG2 - Aluminium extract air grille - 300x200 c/w plenum and 150dia spigot	No	5	
81	DG-1 - Aluminium double sided door grille - 500x300	No	6	
	<u>Removable Slide type Filter Schedule</u>			
82	RFS1 - 400x300 x 100 thick	No	2	
	<u>Damper Schedule</u>			
83	BD1 - Manual balancing damper - 150 dia	No	7	
84	BD2 - Manual balancing damper - 150 dia	No	2	
	<b><u>SPLIT AIR CONDITIONING UNITS</u></b>			
	<u>MWSU.1 &amp; 2 - UPS Room</u>			
85	SAMSUNG Wall Mounted inverter unit - 5,6 kW	No	2	
86	Stainless steel Insulated drip tray	No	2	
87	Refrig. Piping - including insulation and cable tray support	m	12	
88	Condensate pump c/w level switch and tank	Sets	1.0	
	<b>Carried Forward</b>			R
	Section No. 8 Bill No. 1 HVAC Installation (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward			R
<b><u>AIR CONDITIONING AND VENTILATION - FIRST FLOOR</u></b>			
<b><u>Total VRF Equipment to Entire Building - Samsung DVM S</u></b>			
<u>Galvanized Sheet metal ducting - un-insulated</u>			
89	Complete with fittings, hangers, clamps etc. - 0.6mm - square meterage inclusive of area over fittings	m2	190
<u>Flexible Ducting - wire reinforced flexible ducting un-insulated</u>			
90	100 dia	m	90
91	150 dia	m	50
<u>Fan Schedule - c/w flanges, flex connections &amp; anti vibration mounts, controllers for fans, field wiring, field components, transmitters, conduit, trunking, etc.</u>			
92	SAF-3 - Systemair Prio silent fan - 0.16 kW @ 120 Pa - Prio Silent 200EC - 200 l/s, c/w 1-off LDC 200-600 silencer	Sets	1.0
93	SAF-4 - Systemair Prio silent fan - 0.16 kW @ 120 Pa - Prio Silent 200EC - 200 l/s, c/w 1-off LDC 200-600 silencer	Sets	1.0
94	SAF-5 - Systemair Prio silent fan - 0.18 kW @ 150 Pa - Prio Silent 250EC-L - 400 l/s , c/w 1-off LDC 250-900 silencer	Sets	1.0
95	SAF-6 - Systemair Prio silent fan - 0.2 kW @ 150 Pa - Prio Silent 315EC - 550 l/s, c/w 1-off LDC 315-900 silencer	Sets	1.0
96	EAF-6 - Systemair Prio silent fan - 0.2 kW @ 150 Pa - Prio Silent 315EC - 550 l/s	Sets	1.0
97	EAF-7 - Ceiling Mounted extract fan - 300dia	No	1
98	EAF-8 - Systemair Prio silent fan - 0.18 kW @ 150 Pa - Prio Silent 250EC-L - 400 l/s , c/w 1-off LDC 250-900 silencer	Sets	1.0
99	EAF-9 - Systemair Prio silent fan - 0.1 kW @ 100 Pa - Prio Silent 150EC - 150 l/s	Sets	1.0
100	EAF-10 - Systemair Prio silent fan - 0.1 kW @ 100 Pa - Prio Silent 150EC - 150 l/s	Sets	1.0
<b>Carried Forward</b>			R
Section No. 8 Bill No. 1 HVAC Installation (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Brought Forward				R
101	EAF-11 - Ceiling Mounted extract fan - 300dia	No	1	
102	EAF-12 - Systemair through wall fan - BF-W 230A	No	1	
103	EAF-13 - Ceiling Mounted extract fan - 300dia	No	1	
<b><u>ELECTRICAL BOARDS</u></b>				
<u>FAN DB's:</u>				
104	ACDB 2 - Detailed on drawing		Item	
105	ACDB 3 - Detailed on drawing		Item	
106	ACDB 4 - Detailed on drawing		Item	
<u>Grille/Louver Schedule - c/w wire mesh screen</u>				
107	WL1 - Aluminium weather louvre - 600x600	No	1	
108	WL2 - Aluminium weather louvre - 600x400	No	1	
109	WL4 - Aluminium weather louvre - 400x300	No	2	
110	WL5 - Aluminium weather louvre - 500x300	No	1	
111	WL6 - Aluminium weather louvre - 300x200	No	2	
112	WL7 - Aluminium weather louvre - 900x300	No	1	
113	SV1 - Supply air disc valve - dia 150, c/w dia 150 balancing damper	No	2	
114	SV3 - Supply air disc valve - dia 100, c/w dia 100 balancing damper	No	46	
115	DV1 - Extract air disc valve - dia 150	No	9	
116	DV2 - Extract air disc valve - dia 150	No	4	
117	EG1 - Aluminium extract air grille - 300x200 c/w plenum and 150dia spigot	No	6	
118	EG2 - Aluminium extract air grille - 300x200 c/w plenum and 150dia spigot	No	4	
<b>Carried Forward</b>				R
Section No. 8 Bill No. 1 HVAC Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>				R
119	DG-1 - Aluminium double sided door grille - 500x300	No	10	
	<u>Removable Slide type Filter Schedule</u>			
120	RFS2 - 400x200 x 100 thick	No	2	
121	RFS3 - 400x250 x 100 thick	No	1	
122	RFS4 - 550x250 x 100 thick	No	1	
	<u>Damper Schedule</u>			
123	BD3 - Manual balancing damper - 200x200	No	1	
124	FD-1 - Motorized fire damper - 200x200	No	1	
	<b><u>SPLIT AIR CONDITIONING UNITS</u></b>			
	<u>MWSU.3, 4 &amp; 5 - Server Room</u>			
125	SAMSUNG Wall Mounted inverter unit - 8 kW	No	3	
126	Stainless steel Insulated drip tray	No	3	
127	Refrig. Piping - including insulation and cable tray support	No	9	
<b>Carried Forward to Summary of Section No. 8</b>				R
Section No. 8				
Bill No. 1				
HVAC Installation (Provisional)				

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 8</u></b></p> <p><b><u>BILL NO 2</u></b></p> <p><b><u>LIFT INSTALLATION (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p> <p>The Tenderer is referred to Engineer's drawing no. LSG-UTL-6000 issued together with these bills of quantities when pricing the items below.</p> <p><b><u>Provide the total amounts for the following lift as specified:</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 8 Bill No. 2 Lift Installation (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R	
<u>Total Manufacture, Supply - c/w Items Specified in the tender drawing:</u>				
1	Complete manufacturing cost and equipment of the main lift including transportation to site & rigging as specified with complete structural steel structure for lift support including glazing to structure as indicated on the drawings, installed and commissioned in place	No	1	
2	12 (Twelve) months free maintenance			Item
<u>General Items</u>				
3	Cost for signage, hoarding, barricades, scaffolding and protection			Item
4	Total health and safety costs			Item
<u>Maintenance manuals as specified:</u>				
5	3 Hard Copies & USB Drive			Item
<u>Miscellaneous</u>				
6	Lift contractor to detail any additional cost Items – list them below			Item
<b><u>BUDGETARY ALLOWANCES</u></b>				
7	Allow the sum of R50 000.00 for any and all sundry works associated with the installation of the lift			Item
<b>Carried Forward to Summary of Section No. 8</b>				R
Section No. 8				
Bill No. 2				
Lift Installation (Provisional)				
				50,000.00

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 8</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>GAS SUPPRESSION INSTALLATION (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p> <p>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p> <p>The Tenderer is referred to Engineer's drawing no. LSG-F-5011-T00 issued together with these bills of quantities when pricing the items below.</p> <p><b><u>Provide the total amounts for the following as specified on detailed drawings:</u></b></p>			
1	Gas Cylinder/ s, switches, manifolds, straps, tank supports, actuators etc. as required	Item		
2	Pipes, pipe supports and nozzles, relief louvres etc.	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 8 Bill No. 3 Gas Suppression Installation (Provisional)</p>			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Brought Forward</b>			R
3	All information, safety and warning signage as required	Item	
4	Labour for complete installation	Item	
5	Room integrity test	Item	
6	Testing and commissioning of system with all links and interfaces to fire alarm system (by others)	Item	
7	Certificates/ COC's etc. as required for compliance of system	Item	
8	Any other items the contractor may require in completing the installation to be listed below and priced individually:	Item	
<b>Carried Forward to Summary of Section No. 8</b>			R
Section No. 8			
Bill No. 3			
Gas Suppression Installation (Provisional)			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

<b>Bill No</b>	<b><u>SECTION SUMMARY - Mechanical Installation</u></b>	<b>Page No</b>		<b>Amount</b>
1	HVAC Installation (Provisional)	319		
2	Lift Installation (Provisional)	321		
3	Gas Suppression Installation (Provisional)	323		
	<b>Carried to Final Summary</b>		R	
	Section No. 8			

**BILLS OF QUANTITIES FOR:  
UMALUSI EXISTING OFFICES ADDITIONS AND ALTERATIONS**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount	
1	Preliminaries	131		
2	Existing Office Alterations	184		
3	New Ablution Block	234		
4	External Works	240		
5	Fire Protection installation	243		
6	Electrical Installation	278		
7	Electronic Installation	308		
8	Mechanical Installation	324		
	Sub Total		R	
	Value Added Tax		R	
	<b>Carried to Form of Tender</b>		R	

### **C3: SCOPE OF WORK**

#### **C3.1 EMPLOYERS WORKS INFORMATION**

##### **1. DESCRIPTION OF THE WORKS**

###### **1.1 Executive Overview**

This project entails the renovations and additions of an existing building to office space.

###### **1.2 Employers Objectives and Scope of Work**

The purpose of the project is to re-space planned and renovate the existing building to extend the operational life of the building, as well as to provide a modern working environment which is compliant with the Umalusi corporate image. The new facility will also comprise of a new ablution facility which is added to the existing building. The scope of work includes, inter alia, the following as detailed in the Bills of Quantities and Drawings:

- Demolitions and Alterations
- Earthworks
- Piling
- Concrete Formwork and Reinforcement
- Masonry
- Waterproofing
- Carpentry and Joinery
- Ceilings and Partitions
- Floor Coverings, wall linings, etc
- Ironmongery
- Structural Steelwork
- Metalwork
- Plastering
- Tiling
- Plumbing and Drainage
- Glazing
- Paintwork
- Paperhanging
- Signage
- Roadworks (Parking)
- Landscaping
- Electrical Installation
- Electronic Installation
- Fire Protection Installation
- HVAC Installation
- Lift Installation

#### **C3.2 STANDARD SPECIFICATIONS**

The Contractor is referred to the latest edition of:

1. Applicable SANS 2001 Standards for Construction Works.
2. General Preambles for Trades - 2017
3. Supplementary Preambles to the Bills of Quantities including electrical and mechanical installation specifications.
4. Standard System of Measuring Building Work (Seventh Edition).
5. Occupational Health and Safety Specifications.
6. General Conditions of Contract included in the tender document.
7. The "JBCC (JOINT BUILDING CONTRACTS COMMITTEE) PRINCIPAL BUILDING AGREEMENT – EDITION 6.2 – MAY 2018", as amended in the CONTRACT DATA, shall be applicable to this contract.
8. The "JBCC PRELIMINARIES, EDITION 6.2 – MAY 2018", as amended in the CONTRACT DATA, shall be applicable to this contract.

## C4: SITE INFORMATION

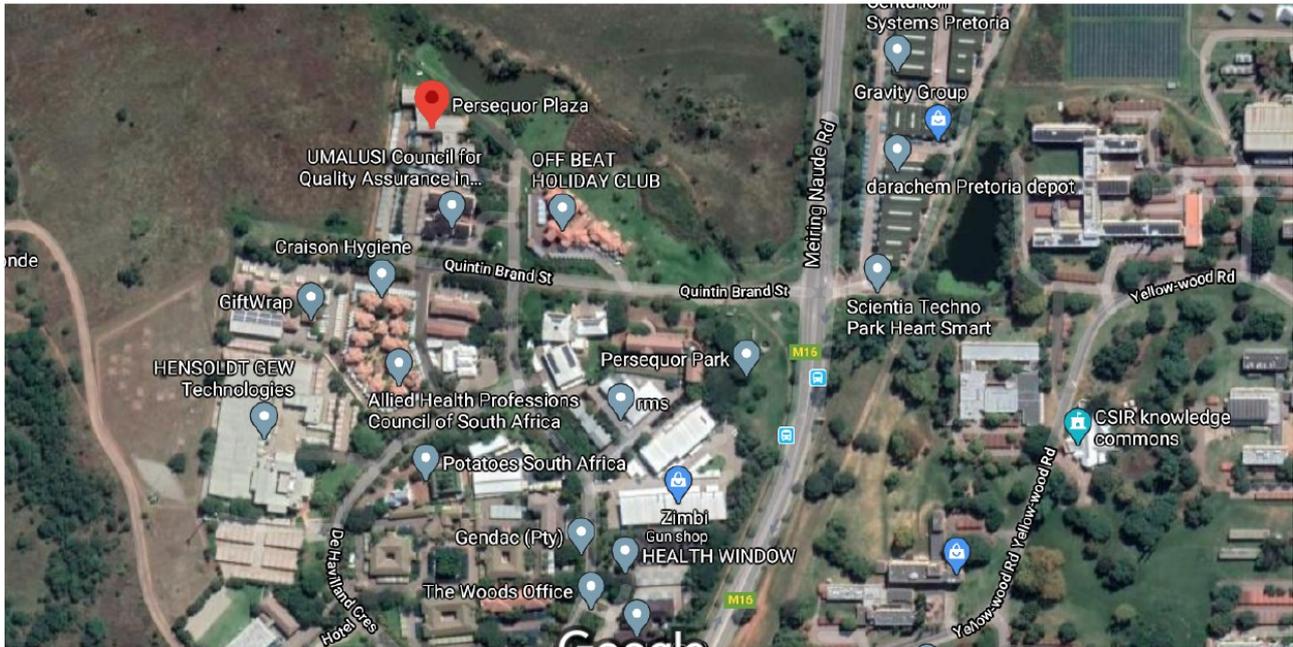
### C4.1 SITE INFORMATION

The site is situated at 41 General Van Ryneveld Street, Brummeria, Pretoria, 0020. Tenderers are to familiarise themselves with the site to determine routes for site access, restrictions and proximity to existing structures.

The site GPS coordinate are as follows:

Latitude: 25°44'34.0"S

Longitude: 28°16'23.4"E



**ANNEXURE: A**

**OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS**

**ANNEXURE: B**  
**GEOTECHNICAL INVESTIGATION REPORT**

**ANNEXURE: C**  
**MECHANICAL SPECIFICATIONS**

**ANNEXURE: D**  
**ELECTRICAL SPECIFICATIONS**

**ANNEXURE: E**  
**ELECTRONIC SPECIFICATIONS**

**ANNEXURE: F**  
**TENDER DRAWINGS**

<b>Architectural Drawings</b>		
<b>19040_UML_100-01 to 210-02 - Plans</b>		
	19040_UML_100-01 - Site and locality plan	PDF
	19040_UML_110-01 - Existing floor plans - As built	PDF
	19040_UML_200-01 - Ground floor demolition layout	PDF
	19040_UML_200-02 - First floor demolition layout	PDF
	19040_UML_210-01 - Proposed ground floor layout	PDF
	19040_UML_210-02 - Proposed First floor layout	PDF
<b>19040_UML_300-01 to 320-02 - Sections and Elevations</b>		
	19040_UML_300-01 - Sections A-A & B-B & C-C	PDF
	19040_UML_310-01 - Proposed elevations	PDF
	19040_UML_320-01 - GF Internal elevations	PDF
	19040_UML_320-02 - FF Internal elevations	PDF
<b>19040_UML_220-01 to 220-02 - Ceiling Layouts</b>		
	19040_UML_220-01 - Ground floor ceiling layout	PDF
	19040_UML_220-01 - First floor ceiling layout	PDF
<b>19040_UML_230-01 to 240-02 - Finishes</b>		
	19040_UML_230-01 - Ground floor floor finishes	PDF
	19040_UML_230-02 - First floor floor finishes	PDF
	19040_UML_240-01 - Ground floor wall finishes	PDF
	19040_UML_240-02 - First floor wall finishes	PDF
<b>19040_UML_500 - Door schedule</b>		
	19040_UML_500 - Door schedule	PDF
<b>19040_UML_510-01 to 510-02 - Window and Shopfront Schedule</b>		
	19040_UML_510-01 - Window and Shopfront Schedule 1-2	PDF
	19040_UML_510-02 - Window and Shopfront Schedule 2-2 and XA report	PDF
<b>19040_UML_620 - Room data sheets</b>		
	16001 - 302 - Sanware and Brassware	PDF
	17 Drawings (1-17)	PDF
<b>19040_UML_530 - Ironmongery Schedule</b>		
	19040_UML_530 - Ironmongery Schedule	PDF
<b>19040_UML_540 - Sanitaryware Schedule</b>		
	19040_UML_540 - Sanitaryware Schedule	PDF
<b>Civil Engineering Layouts</b>		
	200-309-900_T1 Proposed New Parking and Bulk Services Layout	PDF
<b>Structural Engineering Layouts</b>		
	200-309-304_T1 (Slab InFill)	PDF
	200-309-500_T1 (Steel Canopy)	PDF
	200-309-303_T1 (Surface Bed Slab)	PDF
	200-309-300_T1 (Foundations)	PDF
	200-309-501_T1 (Steel Stairs)	PDF
	200-309-301_T1 (Surface Bed Slab)	PDF
	200-309-302_T1 (First Floor + Roof Slab)	PDF

**ANNEXURE: F (Continued)**  
**TENDER DRAWINGS**

<b>Electrical Drawings</b>		
	19034_100_T00	PDF
	19034_101_T00	PDF
	19034_200_T00	PDF
	19034_201_T00	PDF
	19034_300_T00	PDF
	19034_301_T00	PDF
	19034_700_T00	PDF
	19034_701_T00	PDF
	19034_800_T00	PDF
	19034_801_T00	PDF
	19034_400_T00	PDF
	19034_401_T00	PDF
	19034_402_T00	PDF
	19034_403_T00	PDF
	19034_404_T00	PDF
	19034_405_T00	PDF
	19034_406_T00	PDF
	19034_407_T00	PDF
	19034_408_T00	PDF
	19034_409_T00	PDF
	19034_601_T00	PDF
	19034_602_T00	PDF
	19034_603_T00	PDF
	19034_604_T00	PDF
	19034_605_T00	PDF
<b>Electronic Drawings</b>		
	19034_300_C00	PDF
	19034_301_C00	PDF
	19034_501_0	PDF
	19034_502_0	PDF
	19034_503_0	PDF
	19034_505_A	PDF
	19034_506_0	PDF
	19034_510_0	PDF
	19034_700_C00	PDF
	19034_701_C00	PDF
	19034_800_C00	PDF
	19034_801_C00	PDF
<b>Fire Drawings</b>		
	LSG-F-5001-T00	PDF
	LSG-F-5000-T00	PDF
	LSG-F-5011-T00	PDF

**ANNEXURE: F (Continued)**

**TENDER DRAWINGS**

<b>Wet Services Drawings</b>		
	LSG-P-3000	PDF
	LSG-P-3001	PDF
	LSG-D-4000	PDF
	LSG-D-4001	PDF
<b>Mechanical Drawings</b>		
	<b>HVAC Drawings</b>	
	Umalusi HVAC M1010 - GROUND FLOOR REFRIG-T00	PDF
	Umalusi HVAC M1011 - FIRST FLOOR REFRIG-T00	PDF
	Umalusi HVAC M1000 - GROUND FLOOR - T00	PDF
	Umalusi HVAC M1001 - FIRST FLOOR - T00	PDF
	Umalusi HVAC M1012 - GROUND FLOOR CONDENSATE-T00	PDF
	Umalusi HVAC M1013 - FIRST FLOOR CONDENSATE-T00	PDF