ENERGY SAVING LIGHT PROJECT AT THE GEORGE AIRPORT

Reference number: GRJ5845/2019/RFP
### TENDERER'S DETAILS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of Tenderer (Bidding Entity)</td>
</tr>
<tr>
<td></td>
<td>(FULL NAME, i.e. (CC, (Pty) Ltd, Ltd, JV, SOLE PROPRIETOR etc.)</td>
</tr>
<tr>
<td>2.</td>
<td>Tel Number</td>
</tr>
<tr>
<td>3.</td>
<td>Fax Number</td>
</tr>
<tr>
<td>4.</td>
<td>Email</td>
</tr>
<tr>
<td>5.</td>
<td>NAME of CONTACT</td>
</tr>
<tr>
<td>6.</td>
<td>National Treasury CSD Registration Number</td>
</tr>
</tbody>
</table>
**GRJ5845/2019/RFP Energy Saving Light Project at the George Airport**

## Contents

### The Tender

**Part T1: Tendering procedures**

<table>
<thead>
<tr>
<th>T1.1</th>
<th>Tender Notice and Invitation to Tender</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1.2</td>
<td>Tender Data</td>
</tr>
</tbody>
</table>

**Part T2: Returnable documents**

<table>
<thead>
<tr>
<th>T2.1</th>
<th>List of Returnable Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2.2</td>
<td>Returnable Schedules</td>
</tr>
</tbody>
</table>

### The Contract

**Part C1: Agreement and Contract Data**

<table>
<thead>
<tr>
<th>C1.1</th>
<th>Form of Offer and Acceptance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1.2</td>
<td>Contract Data</td>
</tr>
<tr>
<td>C1.3</td>
<td>Insurance Schedule</td>
</tr>
<tr>
<td>C1.4</td>
<td>Occupational Health and Safety Agreement</td>
</tr>
<tr>
<td>C1.5</td>
<td>ACSA Terms and Conditions of Bid</td>
</tr>
</tbody>
</table>

**Part C2: Pricing data**

<table>
<thead>
<tr>
<th>C2.1</th>
<th>Pricing Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2.2</td>
<td>Pricing Schedule</td>
</tr>
</tbody>
</table>

**Part C3: Works Information**

<table>
<thead>
<tr>
<th>C3</th>
<th>Service Information</th>
</tr>
</thead>
</table>

**Part C4: Site information**

<table>
<thead>
<tr>
<th>C4</th>
<th>Site Information</th>
</tr>
</thead>
</table>
T1.1 Tender Notice and Invitation to Bid

AIRPORTS COMPANY SOUTH AFRICA invites tenders for the Energy Saving Light Project at the George Airport

Only Tenderers that satisfy the eligibility criteria (as stated elsewhere in this document) can tender.

1. Compulsory Briefing session

A compulsory briefing session with representatives of the Employer will take place at 10:00am on the 24th of October 2019 at the Outeniqua Boardroom on the 1st Floor at the George Airport

2. Tender Documents

The tender documents will be available from 16 October 2019. Electronic copies of the tender documents will be available for download on the National Treasury eTender Portal as well as the ACSA tender bulletin during the same period. No bid documents will be available at the briefing session.

Tender documents may be downloaded from the National Treasury eTender Portal as well as the ACSA tender bulletin as follows:

http://www.etenders.gov.za/

3. Submission of bid documents

a) The envelopes containing bid documents must have on the outside, the bidder’s return address, the full description of the tender, tender number and the details of the Tender Management Office/Procurement department where the bid will close.

b) The documents must be signed and completed by a person who has been given authority to act on behalf of the bidder.

c) The bottom of each page of the bid documents must be signed or stamped with the bidder’s stamp as proof that the bidder has read the Bid documents.
4. Closing Date

The closing time for receipt of tenders is **25 November 2019 at 12:00pm** (South African Time). Tenders must be placed inside the tender box (to be advised during the briefing session), which will be on the on the 1st Floor at the Outeniqua Boardroom at the George Airport.

No telephonic, faxed or e-mailed tenders will be accepted. No late tenders will be accepted. Bidders to ensure that their names and contacts are reflected on the cover of the bid document.

Tenders may only be submitted on the tender documentation that is issued.

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

5. Enquiries and Contact Information

All enquiries are to be addressed to the e-mail address: sekwati.nkwana@airports.co.za

The closing date for enquiries is on the **22 November 2019 close of business**.

6. Procurement Procedures

Competitive selection will be used.

7. Pre-qualification

Bids that do not meet any one of the following criteria (valid proof/certification must be provided if required) may be disqualified and will not be evaluated further:

- Have a B-BBEE Status Level 1 or 2
8. Mandatory Administration Requirements

Bids that do not meet any one of the following criteria (valid proof/certification must be provided if required) will be disqualified and will not be evaluated further:

- Attendance of a compulsory briefing session;
- Only bidders with the following CIDB Contractor Grading of 4EB/EP or higher can bid.
- Fully signed and completed Form of Offer
- Proof of a valid Letter of Good Standing with the Workers Compensation Commission

NB: No award will be made to a supplier or service provider who is not registered on the central Supplier Database (CSD).

NB: No Bid will be awarded to any person whose tax matters have not been declared in order by South African Revenue Service.

9. Functional Evaluation

- ACSA will score functionality, rejecting all tender offers that fail to score the minimum number of points for functionality stated in the Tender data.
- No tender will be regarded as an acceptable tender if it fails to achieve the minimum qualifying score (61 points) for functionality as indicated in the Tender data and summarised in the table below.
## Functionality Breakdown

<table>
<thead>
<tr>
<th>Criteria Description</th>
<th>Minimum Threshold</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Experience</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proven company experience in Energy Efficiency projects or relatively similar environment; specifically, the <strong>installation and commissioning not maintenance</strong>. <em>(Completion certificates of the previous installation work to be attached)</em></td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td>• 3 Projects/Sites</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>• 5 Projects/Sites</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td><strong>2. DALI Experience</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proven company experience in Light management system; specifically, the DALI <strong>installation and commissioning not maintenance</strong>. <em>(Completion certificates of the previous installation work to be attached)</em></td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td>• 3 Projects/Sites</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>• 5 Projects/Sites</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td><strong>3. References</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contactable reference’s for where works was executed.</td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td>• 3 References</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>• &gt;3 References</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Contactable references must include site where project was done, this must include telephone or cell phone numbers, email address and contact names</td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td><strong>4. Warrantees</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warranties on workmanship.</td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td>• 1 - 2 years</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>• More than 2 years</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>A supplier must submit in writing commitment of the duration with regards to warranties on workmanship.</td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td><strong>5. Project/Site Manager</strong></td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td><strong>5.1 Relevant Project Management Experience</strong> <em>(project details and reference to be supplied)</em></td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td></td>
<td>&gt;5</td>
<td>3 - 5</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>5.2 Relevant Education</strong> <em>(certified qualification certificate to be provided)</em></td>
<td>[ ]</td>
<td>[]</td>
</tr>
<tr>
<td></td>
<td>B.Tech Elec</td>
<td>NDip Elec</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>6. Electrician</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>[10]</td>
<td>15</td>
</tr>
</tbody>
</table>

---

Tender Data
<table>
<thead>
<tr>
<th>Criteria Description</th>
<th>Minimum Threshold</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6.1 Relevant Experience</strong> <em>(project details and reference to be supplied)</em></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>&gt;5</td>
<td>3 - 5</td>
<td>&lt;3</td>
</tr>
<tr>
<td>2.5</td>
<td>2.5</td>
<td>0</td>
</tr>
<tr>
<td><strong>6.2 Relevant Education</strong> <em>(certified qualification certificate to be provided)</em></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>N4 Elec</td>
<td>N3 Elec</td>
<td>Matric</td>
</tr>
<tr>
<td>2.5</td>
<td>2.5</td>
<td>0</td>
</tr>
<tr>
<td><strong>6.3 Fall Arrest Training Certificate</strong> <em>(Valid certificate to be submitted)</em></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>Provided</td>
<td>Not Provided</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>6.4 Trade Test Certificate</strong> <em>(Valid certificate to be submitted)</em></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>Provided</td>
<td>Not Provided</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>7. Safety Officer</strong></td>
<td></td>
<td>[5]</td>
</tr>
<tr>
<td><strong>7.1 Relevant Safety Experience</strong> <em>(project details and reference to be supplied)</em></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>&gt;5</td>
<td>2 - 5</td>
<td>&lt;2</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td><strong>7.2 Safety Training Certificate</strong> <em>(Valid Certificate to be submitted)</em></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Provided</td>
<td>Not Provided</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>8. Semi-Skilled Labourer</strong></td>
<td></td>
<td>[5]</td>
</tr>
<tr>
<td><strong>8.1 Relevant Experience</strong> <em>(project details and reference to be supplied)</em></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>&gt;2</td>
<td>1-2</td>
<td>&lt;1</td>
</tr>
<tr>
<td>2.5</td>
<td>2.5</td>
<td>0</td>
</tr>
<tr>
<td><strong>8.2 Relevant Education</strong> <em>(certified qualification certificate to be provided)</em></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>&gt;Matric</td>
<td>Matric</td>
<td>&lt;Matric</td>
</tr>
<tr>
<td>2.5</td>
<td>2.5</td>
<td>0</td>
</tr>
<tr>
<td><strong>9. Luminaire Specification – Luminaire specification to be attached</strong></td>
<td></td>
<td>[12]</td>
</tr>
<tr>
<td><strong>9.1 Designed min Lux Level of 50 as per SANS 10389</strong></td>
<td></td>
<td>(20)</td>
</tr>
<tr>
<td>&gt;10</td>
<td>5 - 10%</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td><strong>9.2 Lumen/Watt</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>&gt;110</td>
<td>100 – 110 Lm/W</td>
<td>&lt;100Lm/W</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td><strong>9.3 Life Span (Guarantee) – 50 000 Hrs</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>&gt;50 000 hrs</td>
<td>50 000 hrs</td>
<td>&lt;50 000 hrs</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
### Criteria Description

<table>
<thead>
<tr>
<th>9.4 CRI (Colour Rendering Index)</th>
<th>Minimum Threshold</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 90</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>75 - 90</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>&lt; 75</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

### 10. Installation Methodology

<table>
<thead>
<tr>
<th></th>
<th>Minimum Threshold</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
<td>Installation method is unlikely to satisfy the project objective</td>
<td>0</td>
</tr>
<tr>
<td>Satisfactory</td>
<td>The approach meets the min requirements and specific objectives</td>
<td>3</td>
</tr>
<tr>
<td>Good</td>
<td>The approach is specifically tailored to address objectives of the project requirements. The method is flexible to accommodate changes that may occur during execution</td>
<td>5</td>
</tr>
</tbody>
</table>

### 11. Project Program & Schedule

The outcome is to be presented and delivered on or before **30 June 2020**

- No Program | 0 | 3 |
- Programme without timelines | 3 |
- Program with timelines | 6 |

The respondent will provide a preliminary Project Plan (Microsoft Project/Excel format) which demonstrates realistic time frames which meets the required deadline.

Total | 61 | 100 |

---

**T1.2 Tender Data**


The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.
<table>
<thead>
<tr>
<th>Clause Number</th>
<th>Tender Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>F.1</td>
<td>GENERAL</td>
</tr>
<tr>
<td>F.1.1</td>
<td>The Employer is AIRPORTS COMPANY SOUTH AFRICA.</td>
</tr>
</tbody>
</table>
| F.1.2 | The Bid documents issued by the Employer comprise:  
**Part T1-Tendering procedures**  
T1.1 Tender notice and invitation to tender  
T1.2 Standard Conditions of Tender  
T1.3 Tender data  
T1.4 Evaluation procedure and criteria  
**Part T2-Returnable documents**  
T2.1 List of returnable documents  
T2.2 Bid Schedules (Included in T2.1)  
**Part C1: Agreements and contract data**  
C1.1 Form of offer and acceptance  
C1.2 Contract data  
C1.3 Insurance Schedule  
C1.4 Occupational Health and Safety Agreement  
C1.5 ACSA Terms and Conditions of Bid  
**Part C2: Pricing data**  
C2.1 Pricing instructions  
C2.2 Activity Schedules  
**Part C3: Works Information**  
C3 Works Information  
**Part C4: Site Information**  
C4 Site Information  
**Part C5: Annexures** |
| F.1.4 | The employer’s agent is:  
Name: |
| F.1.6 | ACSA reserves the right to amend the terms and conditions of this tender at any time prior to finalisation of the contract between the parties.  
ACSA reserves the right to award this tender to any Tenderer, regardless if this Tenderer should be the lowest priced or not.  
ACSA reserves the right to award this tender to any Tenderer, regardless if this Tenderer should be the highest scored (in terms of F.3.11) or not.  
ACSA reserves the right to cancel this tender at any time.  
A contract in respect of the Services will not necessarily result from the tender responses received by ACSA and ACSA reserves the right to conduct a further procurement process with or without a request for tender or to enter negotiations with any one or more of the tenderers, should it decide to proceed to avoid the contract. |
TENDERER’S OBLIGATIONS

F.2.1 Pre-qualification

Bids that do not meet any one of the following criteria (valid proof/certification must be provided if required) may be disqualified and will not be evaluated further:

- Have a B-BBEE Status Level 1 or 2

Mandatory Administration Requirements

Bids that do not meet any one of the following criteria (valid proof/certification must be provided if required) will be disqualified and will not be evaluated further:

- Attendance of a compulsory briefing session;
- Only bidders with the following CIDB Contractor Grading of 4EB/EP or higher can bid.
- Fully signed and Completed Form of Offer
- Proof of a valid Letter of Good Standing with the Workers Compensation Commission

NB: No award will be made to a supplier or service provider who is not registered on the central Supplier Database (CSD).

NB: No Bid will be awarded to any person whose tax matters have not been declared in order by South African Revenue Service.

F.2.7 The arrangements for a compulsory briefing session are as stated in the Tender Notice and Invitation to Tender.

Tenderers must sign the attendance register in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.

F.2.13.3 Each tender offer communicated on paper shall be submitted as an original plus one copy in separate and sealed envelopes as well as an electronic copy on a memory stick.

F.2.13.5 The Employer’s address for delivery of tender offers and identification details to be shown on each tender offer package are:

Location of tender box: 1st floor, Outeniqua Boardroom at the George Airport

Physical address: George Airport, Old Mossel Bay Road, George, 6530

Identification details: Reference number, title, tenderer’s name and contact details
<table>
<thead>
<tr>
<th>Clause Number</th>
<th>Tender Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>F.2.13.6</td>
<td>A two-envelope procedure will not be followed.</td>
</tr>
<tr>
<td>F.2.13.9</td>
<td>Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.</td>
</tr>
<tr>
<td>F.2.15</td>
<td>The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.</td>
</tr>
<tr>
<td>F.2.16</td>
<td>The tender offer validity period is <strong>84 working days</strong>.</td>
</tr>
<tr>
<td>F.2.18</td>
<td>During the tender process, the Tenderer must submit other material requested by the employer within seven calendar days of being requested to do so.</td>
</tr>
<tr>
<td>F.2.23</td>
<td>The tenderer is required to submit with his tender;</td>
</tr>
<tr>
<td></td>
<td>• a valid Tax Clearance Certificate issued and stamped by the South African Revenue Services (SARS) or pin and;</td>
</tr>
<tr>
<td></td>
<td>• Any certificates requested in T2 (The list of tender returnable documents) and;</td>
</tr>
<tr>
<td></td>
<td>• Copies of relevant documents as requested in other sections of this document.</td>
</tr>
</tbody>
</table>

*The requirements of the Construction Industry Development Board Act and the Regulations may change from time to time and ACSA will be required to apply the version of the Construction Industry Development Board Act and Regulations applicable at the time of contract award. Tenderers should keep themselves updated on these requirements. Further information on the CIDB and CIDB registration can be found on the CIDB website [www.cidb.org.za](http://www.cidb.org.za).*

### F.3
**EMPLOYER’S UNDERTAKINGS**

<table>
<thead>
<tr>
<th>Clause Number</th>
<th>Tender Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>F.3.4</td>
<td>The tender offers will be opened immediately after completion of tender closing formalities at the <strong>ACSA offices at the George Airport</strong>. Bidders names and prices will be read after closing of the tender at: <strong>The Outeniqua Boardroom on the 1st Floor at the George Airport</strong></td>
</tr>
<tr>
<td>F.3.11</td>
<td>Only responsive tenders that satisfy the eligibility criteria (as per F.2.1 in this document) will be evaluated.</td>
</tr>
<tr>
<td></td>
<td>The method for evaluation of responsive tenders shall be Method 2: Functionality, Price and Preference as described under Clause F.3.11.3</td>
</tr>
<tr>
<td>Clause Number</td>
<td>Tender Data</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| F.3.13       | In addition to the requirements of the Condition of Tender, offers will only be accepted if:  
the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;  
the tenderer has not abused the Employer’s supply chain management system; and  
the tenderer has not failed to perform on any previous contract and has not been given a written notice to this effect;  
The Employer/ may also request that the tenderer provide written evidence that his financial, labour and other resources are adequate for carrying out the contract.  
The Employer reserves the right to appoint a firm of chartered accountants and auditors and/or execute any other financial investigations on the financial resources of any tenderer. The tenderer shall provide all reasonable assistance in such investigations.  
The bid documents shall be submitted as a whole and shall not be taken apart unless the tenderer is instructed to do so in the bid documents  
The list of returnable documents (PART T2) must be completed in full. (A tenderer’s company profile will not be used by ACSA to complete PART T2 on behalf of the tenderer).  
If PART T2 is not completed in full by the tenderer, his offer may be rejected. |
| F.3.17       | The number of paper copies of the signed contract to be provided by the employer is two. |
| F.4          | The additional conditions of tender are:  
1 ACSA shall not be liable for any expense incurred by any tenderer in the preparation and submission of its tender, nor in the event this tender is cancelled.  
2 ACSA reserves the right to amend the terms and conditions of this tender at any time prior to finalisation of the contract between the parties.  
3 ACSA reserves the right to award this tender to any tenderer, regardless if this tenderer should be the lowest priced or not.  
4 ACSA reserves the right to award this tender to any tenderer, regardless if this tenderer should be the highest scored (in terms of F.3.11) or not.  
5 ACSA reserves the right to cancel this tender at any time.  
6 A contract in respect of the Services will not necessarily result from the tender responses received by ACSA and ACSA reserves the right to conduct a further procurement process with or without a request for tender or to enter into negotiations with any one or more of the tenderers, should it decide to proceed to avoid the contract  
7 As per PPPFA Regulations 11 (1) and (2), ACSA reserves the right to award the bid to the service provider that has more local human resources than the highest scoring bidder at Price and BBBEE evaluations |
<table>
<thead>
<tr>
<th>Clause Number</th>
<th>Tender Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>As per PPPFA Regulations 11 (1) and (2), ACSA reserves the right to award the bid to the service provider that is sourcing the products locally other than the highest scoring bidder at Price and BBBEE evaluations</td>
</tr>
</tbody>
</table>

**Disclaimers**

It must be noted that ACSA reserve the right to:

1. Award the whole or a part of this tender;
2. Split the award of this tender;
3. Negotiate with all or some of the shortlisted bidders;
4. Award the tender to a bidder other than the highest scoring bidder where objective criteria allow;
5. Cancel this tender;
6. ACSA does not take any responsibility for expenses or loss, which may be incurred by any bidder in preparation of this bid.
**T2.1 List of Returnable Documents**

**Part 1 Returnable Schedules required for tender evaluation purposes**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1.1 Form of Offer and Acceptance</td>
<td></td>
</tr>
<tr>
<td>C2.2 Activity Schedule</td>
<td></td>
</tr>
<tr>
<td>Certificate of attendance of briefing session</td>
<td></td>
</tr>
<tr>
<td>Certificate of Authority to Sign Tender</td>
<td></td>
</tr>
<tr>
<td>Certificate of Authority of Joint Ventures (where applicable)</td>
<td></td>
</tr>
<tr>
<td>Record of Addenda to Tender Documents</td>
<td></td>
</tr>
<tr>
<td>Proposed Amendments and Qualifications</td>
<td></td>
</tr>
<tr>
<td>Schedule of the Tenderer’s Experience and References</td>
<td></td>
</tr>
<tr>
<td>Schedule of key personnel’s details</td>
<td></td>
</tr>
<tr>
<td>Schedule of Resources for this Contract</td>
<td></td>
</tr>
<tr>
<td>Construction Industry Development Board certificate</td>
<td></td>
</tr>
<tr>
<td>Project Plan</td>
<td></td>
</tr>
<tr>
<td>Proposed Subcontractors</td>
<td></td>
</tr>
<tr>
<td>Enterprise Questionnaire</td>
<td></td>
</tr>
<tr>
<td>Declaration of interest (SBD 4)</td>
<td></td>
</tr>
<tr>
<td>Preference points claim (SBD 6.1)</td>
<td></td>
</tr>
<tr>
<td>Bidders past supply chain management practices (SBD 8)</td>
<td></td>
</tr>
<tr>
<td>Certificate of Independent bid determination (SBD 9)</td>
<td></td>
</tr>
<tr>
<td>Certified copy of SARS Tax Clearance Certificate or Pin</td>
<td></td>
</tr>
<tr>
<td>Certified copy of Broad Based Black Economic Empowerment (B-BBEE)</td>
<td></td>
</tr>
<tr>
<td>verification certificate</td>
<td></td>
</tr>
<tr>
<td>Letter of good standing with the Workers Compensation Commissioner</td>
<td></td>
</tr>
<tr>
<td>Letter of warranty from the OEM / OEM agent (Letter must be on the OEM / OEM agent letterhead)</td>
<td></td>
</tr>
</tbody>
</table>

List of Returnable documents  T2.1 page 1
### Part 2 Returnable Schedules that will be incorporated into the contract

| Proposed Amendments and Qualifications |

### Part 4 Other documents that will be incorporated into the contract

<table>
<thead>
<tr>
<th>C1.1</th>
<th>Form of Offer and Acceptance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1.2</td>
<td>Contract Data as per the NEC3 Term Service Contract (April 2013)</td>
</tr>
<tr>
<td>C2.1</td>
<td>Pricing Instructions</td>
</tr>
<tr>
<td>C2.2</td>
<td>Price List (including the Activity Schedule)</td>
</tr>
<tr>
<td>C3</td>
<td>Service Information – including All Annexes</td>
</tr>
</tbody>
</table>
FORM A 1. CERTIFICATE OF ATTENDANCE AT SITE CLARIFICATION MEETING
ENERGY SAVING LIGHT PROJECT AT THE GEORGE AIRPORT

This is to certify that

I ..................................................................................................................................................

Representative of (tenderer)........................................................................................................

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

Of (address)................................................................................................................................

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

telephone number........................................................................................................................

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

fax number....................................................................................................................................

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

visited and examined the site on date..........................................................................................

..................................................................................................................................................
CERTIFICATE OF AUTHORITY TO SIGN TENDER

Signatories for close corporations and companies shall confirm their authority by attaching to this form a duly signed and dated copy of the relevant resolution of their members or their board of directors, as the case may be.

In the event that the tenderer is a joint venture, a certificate of authority for signatories (Form A4) is required from all members of the joint venture and the designated lead member shall be clearly identified as requested by tender condition F.2.13.4

An example is shown below:

"By resolution of the board of directors taken on 20____ Mr/Ms____________________ has been duly authorized to sign all documents in connection with this tender for GRJ5845/2019/RFP and any contract which may arise therefrom on behalf of (block capitals)

Signed on behalf of Company:

In his/her capacity as:

Date: …………………………Signatory of Authority: ………………………………………...

Witnesses:

____________________                                                                         ___
Signature                                                                                                   Signature
____________________                                                                         ___________________
Name                                                                                                   Name
<table>
<thead>
<tr>
<th>Signed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Position</td>
</tr>
<tr>
<td>Tenderer</td>
<td></td>
</tr>
</tbody>
</table>
FORM A 2.  CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed by joint ventures in addition to Form A3 for each JV member.

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

<table>
<thead>
<tr>
<th>NAME OF FIRM</th>
<th>ADDRESS</th>
<th>Duly Authorised Signatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead partner</td>
<td></td>
<td>Signature……………………</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Designation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signature……………………</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Designation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signature……………………</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Designation</td>
</tr>
</tbody>
</table>
RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been considered in this tender offer:

<table>
<thead>
<tr>
<th>Date</th>
<th>Title or Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Attach additional pages if more space is required.

<table>
<thead>
<tr>
<th>Signed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tenderer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
FORM A 3. PROPOSED AMENDMENTS AND QUALIFICATIONS

The Tenderer shall record any deviations or qualifications he/she may wish to make to the tender documents in this Returnable Schedule. The Tenderer’s attention is drawn to clause F.3.8 of the Standard Conditions of Tender referenced in the Tender Data regarding the employer’s handling of material deviations and qualifications.

<table>
<thead>
<tr>
<th>Page</th>
<th>Clause or item</th>
<th>Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Attach additional pages if more space is required.

<table>
<thead>
<tr>
<th>Signed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tenderer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
FORM A 4. SCHEDULE OF THE TENDERER’S RECENT EXPERIENCE

Make as many copies of this page as required

In the event of a joint venture enterprise, details of all members of the joint venture shall similarly be attached to this form.

<table>
<thead>
<tr>
<th>Employer, Contact Person and Telephone Number</th>
<th>Description of Contract</th>
<th>Value of Work Inclusive of VAT (Rand)</th>
<th>Duration (Start and End dates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: When completing the above schedule, Tenderers must take cognisance of the evaluation criteria as described in the Tender Data, Part T1.2, Clause F.3.11

The information provided above must align to the letters from the tenderer’s client

<table>
<thead>
<tr>
<th>Signed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tenderer
FORM A 5. SCHEDULE OF THE TENDERER’S CURRENT COMMITMENTS

Make as many copies of this page as required

The tenderer shall list below all assignments with which the proposed key personnel (as named in Form “C6”) are currently involved.

*In the event of a joint venture enterprise, details of all members of the joint venture shall similarly be attached to this form.*

<table>
<thead>
<tr>
<th>Employer, Contact Person and Telephone Number.</th>
<th>Description of Contract</th>
<th>Value of Work inclusive of VAT (Rand)</th>
<th>Duration (Start and End dates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signed

Date

Name

Position

Tenderer
SCHEDULE OF KEY PERSONNEL’S DETAILS

Project/Site Manager

Make as many copies of this page as required

Note: When completing the above schedule, Tenderer’s must take cognisance of the evaluation criteria.
The undersigned confirms that the information provided above is correct.

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname</td>
<td></td>
</tr>
<tr>
<td>Nationality</td>
<td>(Attach</td>
</tr>
<tr>
<td></td>
<td>certified ID copy)</td>
</tr>
<tr>
<td>Date of Birth</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Qualifications (attach certified copies)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Previous Work Experience

<table>
<thead>
<tr>
<th>Position Held</th>
<th>Company</th>
<th>Start Date</th>
<th>End Date</th>
<th>Responsibilities/Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Name: _____________________________________________

Signed: ___________________________________________

Date: ___________________________________________
Schedule of Key Personnel’s Details

Electrician

Make as many copies of this page as required

Note: When completing the above schedule, Tenderer’s must take cognisance of the evaluation criteria.
The undersigned confirms that the information provided above is correct.

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname</td>
<td></td>
</tr>
<tr>
<td>Nationality (Attach certified ID copy)</td>
<td></td>
</tr>
<tr>
<td>Date of Birth</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Qualifications (attach certified copies)</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Previous Work Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position Held</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

The undersigned confirms that the information provided above is correct.

Name: ____________________________________________

Signed: __________________________________________

Date: ___________________________________________
Schedule of Key Personnel's Details
Make as many copies of this page as required

Safety Officer

Note: When completing the above schedule, Tenderer's must take cognisance of the evaluation criteria.
The undersigned confirms that the information provided above is correct.

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname</td>
<td></td>
</tr>
<tr>
<td>Nationality (Attach certified ID copy)</td>
<td></td>
</tr>
<tr>
<td>Date of Birth</td>
<td></td>
</tr>
</tbody>
</table>

Qualifications (attach certified copies)

<table>
<thead>
<tr>
<th>Position Held</th>
<th>Company</th>
<th>Start Date</th>
<th>End Date</th>
<th>Responsibilities/ Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The undersigned confirms that the information provided above is correct.

Name: __________________________________________

Signed: ________________________________________

Date: _______________________________________

Schedule of Key Personnel's Details
Make as many copies of this page as required
Semi-Skilled Labourer

**Note:** When completing the above schedule, Tenderer’s must take cognisance of the evaluation criteria.

The undersigned confirms that the information provided above is correct.

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname</td>
<td></td>
</tr>
<tr>
<td>Nationality</td>
<td>(Attach certified ID copy)</td>
</tr>
<tr>
<td>Date of Birth</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>(attach certified copies)</th>
</tr>
</thead>
</table>

---

### Previous Work Experience

<table>
<thead>
<tr>
<th>Position Held</th>
<th>Company</th>
<th>Start Date</th>
<th>End Date</th>
<th>Responsibilities/Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The undersigned confirms that the information provided above is correct.

Name: _____________________________

Signed: ___________________________

Date: _____________________________
FORM A 6.  SCHEDULE OF KEY PERSONNEL’S EXPERIENCE

Make as many copies of this page as required

- A schedule needs to be completed for each key staff member that will be involved in the contract as per functionality criteria.
- In addition, a comprehensive Curriculum Vitae must be submitted together with proof of qualifications

<table>
<thead>
<tr>
<th>Employer, Contact Person and Telephone Number.</th>
<th>Description Employment</th>
<th>Duration (Start and End dates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The undersigned confirms that the information provided above is correct.

Name: ____________________________________________

Signed: _________________________________________

Date: ___________________________________________
FORM A 7. SCHEDULE OF RESOURCES FOR THIS CONTRACT

Tenderers to insert a page listing all human resources indicating their roles in the project (with levels of training and qualification for each) that will be employed for the execution of the contract. Specific reference needs to be made to additional resources (may be utilised at other sites) that will be available, should the need arise.
FORM A 11: PROJECT PLAN

(start-up proposal and delivery time)

NB: For demonstrative purposes, select the 1st of February 2020 as the start date of the contract
FORM A 9. SCHEDULE OF PROPOSED SUB-CONTRACTORS

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

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

<table>
<thead>
<tr>
<th>Name and address of proposed Sub-contractor</th>
<th>Nature and extent of work</th>
<th>Previous experience with Sub-contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signed                                  Date

Name                                   Position

Respondent
FORM A 13: ENTERPRISE QUESTIONNAIRE

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

<table>
<thead>
<tr>
<th>Section 1: Name of enterprise:</th>
<th>.................................................................</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 2: VAT registration number, if any:</td>
<td>.................................................................</td>
</tr>
<tr>
<td>Section 3: CIDB registration number, if any:</td>
<td>.................................................................</td>
</tr>
<tr>
<td>Section 4: Particulars of sole proprietors and partners in partnerships</td>
<td></td>
</tr>
<tr>
<td>Name*, Identity number*, Personal income tax number*</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Section 5: Particulars of companies and close corporations</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Company registration number</td>
<td>.................................................................</td>
</tr>
<tr>
<td>Close corporation number</td>
<td>.................................................................</td>
</tr>
<tr>
<td>Tax reference number</td>
<td>.................................................................</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 6: Record of service of the state</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:</td>
<td></td>
</tr>
<tr>
<td>a member of any municipal council</td>
<td></td>
</tr>
<tr>
<td>a member of any provincial legislature</td>
<td></td>
</tr>
<tr>
<td>a member of the National Assembly or the National Council of Province</td>
<td></td>
</tr>
<tr>
<td>a member of the board of directors of any municipal entity</td>
<td></td>
</tr>
</tbody>
</table>
an official of any municipality or municipal entity
an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
a member of an accounting authority of any national or provincial public entity
an employee of Parliament or a provincial legislature

If any of the above boxes are marked, disclose the following:
**Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder**

**Name of institution, public office, board or organ of state and position held**

**Current or within last 12 months?**

*insert separate page if necessary

**Section 7: Record of spouses, children and parents in the service of the state**
Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

a member of any municipal council
a member of any provincial legislature
a member of the National Assembly or the National Council of Province
a member of the board of directors of any municipal entity
an official of any municipality or municipal entity
an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
a member of an accounting authority of any national or provincial public entity
an employee of Parliament or a provincial legislature

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

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder

Name of institution, public office, board or organ of state and position held

Current or within last 12 months?

*insert separate page if necessary

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise:
authorises the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;

confirms that I/we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the service information that could cause or be interpreted as a conflict of interest;

confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed

.......................................................... Date  

Name

.......................................................... Position

Enterprise name


FORM A 10.  BBBEE VERIFICATION CERTIFICATE

The bid must include an original or certified copy of the B-BBEE verification certificate issued by a SANAS accredited ratings agency, or an IRBA Registered Accounting Practice. The certificate should be an original or a certified copy.

The Preferential Procurement Regulations Part 3, section 11 (9) states that, “A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an Exempted Micro Enterprise that has the capability and ability to execute the sub-contract.

A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, if the entity submits their B-BBEE status level certificate. A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, if 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 bid.
FORM A 11. LETTER OF WARRANTY / GUARANTEE FROM THE OEM or OEM AGENT

The letter must be on the letterhead and signed by the OEM or OEM agent
FORM A 12. TAX CLEARANCE CERTIFICATE or PIN

All bid submissions must have a valid tax clearance certificate or Pin as part of the compliance requirements. If a company or close corporation has not yet been formed at the time of submitting a bid, the prospective shareholders or members must each supply a tax clearance certificate in their personal capacities.
FORM A 13. LETTER OF GOOD STANDING WITH THE WORKERS COMPENSATION COMMISSIONER

The tenderer is required to provide the letter of good standing from the Workers Compensation Commissioner. A valid letter if they have one OR proof of application for one if they have an expired one and have applied for a new one.
FORM A 14. CONSTRUCTION INDUSTRY DEVELOPMENT BOARD GRADING CERTIFICATE (CIDB)
FORM A 15. PROPOSED PRODUCT FUNCTIONALITY

(SUPPLY, DELIVER, INSTALL AND COMMISSIONING METHODOLOGY AND SPECIFICATION OF THE LED LIGHTING)
FORM A 16. OCCUPATIONAL HEALTH AND SAFETY AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH & SAFETY ACT (ACT 85 OF 1993) & CONSTRUCTION REGULATION 5.1(k)

OBJECTIVES

To assist Airports Company South Africa SOC Limited (ACSA) to comply with the requirements of:

1. The Occupational Health & Safety (Act 85 of 1993) and its regulations and

2. The Compensation for Occupational Injuries & Diseases Act (Act 130 of 1993) also known as the (COID Act).

To this end an Agreement must be concluded before any contractor/ subcontracted work may commence

The parties to this Agreement are:

<table>
<thead>
<tr>
<th>Name of Organization:</th>
<th>AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Address:</td>
<td>George Airport</td>
</tr>
<tr>
<td></td>
<td>Old Mossel Bay Road</td>
</tr>
<tr>
<td></td>
<td>George</td>
</tr>
<tr>
<td></td>
<td>6530</td>
</tr>
</tbody>
</table>

Hereinafter referred to as “Client”

<table>
<thead>
<tr>
<th>Name of organisation:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Hereinafter referred to as “the Mandatary/ Principal Contractor”

MANDATORY’S MAIN SCOPE OF WORK

<table>
<thead>
<tr>
<th>To be completed by Contractor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
GENERAL INFORMATION FORMING PART OF THIS AGREEMENT

1. The Occupational Health & Safety Act comprises of SECTION 1-50 and all un-repealed REGULATIONS promulgated in terms of the former Machinery and Occupational Safety Act No.6 of 1983 as amended as well as other REGULATIONS which may be promulgated in terms of the Act and other relevant Acts pertaining to the job in hand.

2. “Mandatary” is defined as including as agent, a principal contractor or a contractor for work, but WITHOUT DEROGATING FROM HIS/HER STATUS IN HIS/HER RIGHT AS AN EMPLOYER or user of the plant

3. Section 37 of the Occupational Health & Safety Act potentially punishes Employers (PRINCIPAL CONTRACTOR) for unlawful acts or omissions of Mandataries (CONTRACTORS) save where a Written Agreement between the parties has been concluded containing arrangements and procedures to ensure compliance with the said Act BY THE MANDATARY.

4. All documents attached or refer to in the above Agreement form an integral part of the Agreement.

5. To perform in terms of this agreement Mandataries must be familiar and conversant with the relevant provisions of the Occupational Health & Safety Act 85 of 1993 (OHS Act) and applicable Regulations.

6. Mandataries who utilize the services of their own Mandataries (contractors) must conclude a similar Written Agreement with them.

7. Be advised that this Agreement places the onus on the Mandatary to contact the CLIENT in the event of inability to perform as per this Agreement.

8. This Agreement shall be binding for all work the Mandatary undertakes for the client.

9. All documentation as per the Safety checklist including a copy of the written Construction Manager appointment in terms of construction regulation 8, must be submitted 7 days before work commences.

THE UNDERTAKING

The Mandatary undertakes to comply with:

INSURANCE

1. The Mandatary warrants that all their employees and/or their contractor’s employees if any are covered in terms of the COID Act, which shall remain in force whilst any such employees are present on the Client’s premises. A letter is required prior commencing any work on site confirming that the Principal contractor or contractor is in good standing with the Compensation Fund or Licensed Insurer.
2. The Mandatary warrants that they are in possession of the following insurance cover, which cover shall remain in force whilst they and/or their employees are present on the Client’s premises, or which shall remain in force for that duration of their contractual relationship with the Client, whichever period is the longest.

- Public Liability Insurance Cover as required by the Subcontract Agreement
- Any other Insurance cover that will adequately make provision for any possible losses and/or claims arising from their and/or their Subcontractors and/or their respective employee’s acts and/or omissions on the Client’s premises.

**COMPLIANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT 85 OF 1993**

The Mandatary undertakes to ensure that they and/or their subcontractors if any and/or their respective employees will always comply with the following conditions:

1. All work performed by the Mandatary on the Client’s premises must be performed under the close supervision of the Mandatary’s employees who are to be trained to understand the hazards associated with any work that the Mandatary performs on the Client’s premises.
2. The Mandatary shall be assigned the responsibility in terms of Section 16(1) of the OHS Act 85 of 1993, if the Mandatary assigns any duty in terms of Section 16(2), a copy of such written assignment shall immediately be forwarded to the Client.
3. The Mandatary shall ensure that he/she familiarise himself/herself with the requirements of the OHS Act 85 of 1993 and that s/he and his/her employees and any of his subcontractors comply with the requirements.
4. The Mandatary shall ensure that a baseline risk assessment is performed by a competent person before commencement of any work in the Client’s premises. A baseline risk assessment document will include identification of hazards and risk, analysis and evaluation of the risks and hazards identified, a documented plan and safe work procedures to mitigate, reduce or control the risks identified, and a monitoring and review plan of the risks and hazards.
5. The Mandatary shall appoint competent persons who shall be trained on any Occupational Health & Safety aspect pertaining to them or to the work that is to be performed.
6. The Mandatary shall ensure that discipline regarding Occupational Health & Safety shall be strictly enforced.
7. Any personal protective equipment required shall be issued by the Mandatary to his/her employees and shall be worn at all times.
8. Written safe working practices/procedures and precautionary measures shall be made available and enforced and all employees shall be made conversant with the contents of these practices.
9. No unsafe equipment/machinery and/or articles shall be used by the Mandatary or contractor on the Client’s premises.
10. All incidents/accidents referred to in OHS Act shall be reported by the Mandatary to the Provincial Director: Department of Labour as well as to the Client.
11. No user shall be made by the Mandatary and/or their employees and or their subcontractors of any of the Client’s machinery/article/substance/plant/personal protective equipment without prior written approval.
12. The Mandatary shall ensure that work for which the issuing of permit is required shall not be performed prior to the obtaining of a duty completed approved permit.
13. The Mandatary shall ensure that no alcohol or any other intoxicating substance shall be allowed on the Client’s premises. Anyone suspected to be under the influence of alcohol or any other intoxicating substance shall not be allowed on the premises. Anyone found on the premises suspected to be under the influence of alcohol or any other intoxicating substance shall be escorted off the said premises immediately.
14. Full participation by the Mandatary shall be given to the employees of the Client if and when they inquire into Occupational Health & Safety.

FURTHER UNDERTAKING

1. Only a duly authorised representative appointed in terms of Section 16.2 of the OHS Act is eligible to sign this agreement on behalf of the Mandatary. The signing power of this representative must be designated in writing by the Chief Executive Officer of the Mandatary. A copy of this letter must be made available to the Client.
2. The Mandatary confirms that he has been informed that he must report to the Client’s management, in writing anything he/she deems to be unhealthy and/or unsafe. He has versed his employees in this regard.
3. The Mandatary warrants that he/she shall not endanger the health & safety of the Client’s employees and other persons in any way whilst performing work on the Client’s premises.
4. The Mandatary understands that no work may commence on the Client’s premises until this procedure is duly completed, signed and received by the Client.
5. Non-compliance with any of the above clauses may lead to an immediate cancellation of the contract.
ACCEPTANCE BY MANDATARY

In terms of section 37(2) of the Occupational Health & Safety Act 85 of 1993 and section 5.1(k) of the Construction Regulations 2014,

I, ___________________________________________ (Name and Surname), a duly authorised 16.2
Appointee acting for and on behalf of ____________________________________________
(Company Name) undertake to ensure that the requirements and the provision of the OHS Act 85 of 1993 and its regulations are complied with.

Mandatory – WCA/ Federated Employers Mutual
No……………………………………………………………………………

Expiry date ………………………………………………………………………………

________________________________________ ______________________
SIGNATURE ON BEHALF OF MANDATARY DATE
(Warrant his authority to sign)

________________________________________
NAME

________________________________________
SIGNATURE ON BEHALF OF THE CLIENT DATE
AIRPORTS COMPANY SOUTH AFRICA

________________________________________
NAME
FORM A 18

ACSA Service & Maintenance Contractors
Environmental Terms and Conditions to Commence Work - EMS 048

The following Environmental Terms and Conditions shall be strictly adhered to by all contractors when conducting works for ACSA. ACSA shall audit contractor activities, products and services on an ad hoc basis to ensure compliance to these environmental conditions. Any pollution clean-up costs shall be borne by the contractor.

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Policy</td>
<td>ACSA’s Environmental Policy shall be communicated, comprehended and implemented by all ACSA appointed contractor staff.</td>
</tr>
<tr>
<td>Storm water, Soil and Groundwater Pollution</td>
<td>No solid or liquid material may be permitted to contaminate or potentially contaminate storm water, soil or groundwater resources. Any pollution that risks contamination of these resources must be cleaned-up immediately. Spills must be reported to ACSA immediately. Contractors shall supply their own suitable clean-up materials where required. Washing, maintenance and refuelling of equipment shall only be allowed in designated service areas on ACSA property. It is the contractor’s responsibility to determine the location of these areas. No leaking equipment or vehicles shall be permitted on the airport.</td>
</tr>
<tr>
<td>Air Pollution</td>
<td>Dust: Dust resulting from work activities that could cause a nuisance to employees or the public shall be kept to a minimum. Odours and emissions: All practical measures shall be taken to reduce unpleasant odours and emissions generated from work related activities. Fires: No open fires shall be permitted on site.</td>
</tr>
<tr>
<td>Noise Pollution</td>
<td>All reasonable measures shall be taken to minimise noise generated on site as a result of work operations. The Contractor shall comply with the applicable regulations with regard to noise.</td>
</tr>
<tr>
<td>Waste Management</td>
<td>Waste shall be separated as general or hazardous waste.</td>
</tr>
</tbody>
</table>
General and hazardous waste shall be disposed of appropriately at a permitted landfill site should recycling or re-use of waste not be feasible. Under no circumstances shall solid or liquid waste be dumped, buried or burnt.

Contractors shall maintain a tidy, litter free environment at all times in their work area.

Contractors must keep on file:
- The name of the contracting waste company
- Waste disposal site used
- Monthly reports on quantities – separated into general, hazardous and recycled
- Maintained file of all Waste Manifest Documents and Certificates of Safe Disposal
- Copy of waste permit for disposal site

This information must be available during audits and inspections.

| Handling & Storage of Hazardous Chemical Substances (HCS) | All HCS shall be clearly labelled, stored and handled in accordance to Materials Safety Data Sheets.
Materials Safety Data Sheets shall be stored with all HCS.
All spillages of HCS must be cleaned-up immediately and disposed of as hazardous waste. (HCS spillages must be reported to ACSA immediately).
All contractors shall be adequately informed with regards to the handling and storage of hazardous substances.
Contractors shall comply with all relevant national, regional and local legislation with regard to the transport, storage, use and disposal of hazardous substances. |
| Water and Energy Consumption | ACSA promotes the conservation of water and energy resources. The contractor shall identify and manage those work activities that may result in water and energy wastage. |
| Training & Awareness | The conditions outlined in this permit shall be communicated to all contractors and their employees prior to commencing works at the airport. |
Penalties

Penalties shall be imposed by ACSA on Contractors who are found to be infringing these requirements and/or legislation. The Contractor shall be advised in writing of the nature of the infringement and the amount of the penalty. The Contractor shall take the necessary steps (e.g. training/remediation) to prevent a recurrence of the infringement and shall advise ACSA accordingly. The Contractor is also advised that the imposition of penalties does not replace any legal proceedings, the Council, authorities, land owners and/or members of the public may institute against the Contractor.

Penalties shall be between R200 and R20 000, depending upon the severity of the infringement. The decision on how much to impose will be made by ACSA’s Airport Environmental Management Representative in consultation with the Airport Manager or his/her designate and will be final. In addition to the penalty, the Contractor shall be required to make good any damage caused as a result of the infringement at his/her own expense.

I, ________________________________ (name & surname) of ________________________________ (company) agree to the above conditions and acknowledge ACSA’s right to impose penalties should I or any of my employees or sub-contractors fail to comply with these conditions.

Signed: ___________________________ on this date: ____________________________ (dd/mm/yyyy)

at: ________________________________ (airport name).
DECLARATION OF INTEREST

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

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

2. To give effect to the above, the following questionnaire must be completed and submitted with the bid.

2.1 Full Name of bidder or his or her representative: ……………………………………….

2.2 Identity
   Number: ………………………………………………………………………………………………………………………………
   ……………

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

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

2.5 Tax Reference Number:……………………………………………………………………………………………………

2.6 VAT Registration Number: …………………………………………………………………………………………………

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

¹ “State” means –
(a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
(b) any municipality or municipal entity;
(c) provincial legislature;

² "Shareholder" means –
2.7 Are you or any person connected with the bidder presently employed by the state? YES / NO

2.7.1 If so, furnish the following:

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

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

Position occupied in the state institution: ...........................................................

Any other particulars:
...................................................................................................................
....................................................................................................................
....................................................................................................................

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

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

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

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

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

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

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

2.9.1 If so, furnish particulars.

…………………………………………………………………………………………
…………………………………………………………………………………………
…………………………………………………………………………………………

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid?

2.10.1 If so, furnish particulars.

…………………………………………………………………………………………
…………………………………………………………………………………………
…………………………………………………………………………………………

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether they are bidding for this contract?

2.11.1 If so, furnish particulars:

…………………………………………………………………………………………
…………………………………………………………………………………………
…………………………………………………………………………………………

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

<table>
<thead>
<tr>
<th>Full Name</th>
<th>Identity Number</th>
<th>Personal Income Tax Reference Number</th>
<th>State Employee Number / Persal Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4 DECLARATION

I, THE UNDERSIGNED (NAME)………………………………………………………………………

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

.......................................................... ..........................................................
Signature                                           Date

.......................................................... ..........................................................
Position                                            Name of bidder
PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

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


1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:
   - the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
   - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 The value of this bid is estimated to **not exceed R50 000 000** (all applicable taxes included) and therefore the 80/20 system shall be applicable.

1.3 Preference points for this bid shall be awarded for:
   (a) Price; and
   (b) B-BBEE Status Level of Contribution.

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

<table>
<thead>
<tr>
<th></th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRICE</td>
<td>80</td>
</tr>
<tr>
<td>B-BBEE STATUS LEVEL OF CONTRIBUTOR</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total points for Price and B-BBEE must not exceed</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

1.5 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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

2.1 “all applicable taxes” includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;

2.2 “B-BBEE” means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;

2.3 “B-BBEE status level of contributor” means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

2.4 “bid” means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;

2.5 “Broad-Based Black Economic Empowerment Act” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);

2.6 “comparative price” means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;

2.7 “consortium or joint venture” means an association of persons for combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;

2.8 “contract” means the agreement that results from the acceptance of a bid by an organ of state;

2.9 “EME” means any enterprise with an annual total revenue of R5 million or less.

2.10 “Firm price” means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;

2.11 “functionality” means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, considering, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;

2.12 “non-firm prices” means all prices other than “firm” prices;

2.13 “person” includes a juristic person;
2.14 “rand value” means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;

2.15 “sub-contract” means the primary contractor’s assigning, leasing, making out work to, or employing, another person to support such primary contractor in the execution of part of a project in terms of the contract;

2.16 “total revenue” bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the Government Gazette on 9 February 2007;

2.17 “trust” means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and

2.18 “trustee” means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.
3. ADJUDICATION USING A POINT SYSTEM

3.1 The bidder obtaining the highest number of total points will be awarded the contract.

3.2 Preference points shall be calculated after prices have been brought to a comparative basis considering all factors of non-firm prices and all unconditional discounts.

3.3 Points scored must be rounded off to the nearest 2 decimal places.

3.4 If two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.

3.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.

3.6 Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR PRICE

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

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

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

Where

\[ P_s = \text{Points scored for comparative price of bid under consideration} \]

\[ P_t = \text{Comparative price of bid under consideration} \]

\[ P_{\text{min}} = \text{Comparative price of lowest acceptable bid} \]

5. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

5.1 In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

<table>
<thead>
<tr>
<th>B-BBEE Status Level of Contributor</th>
<th>Number of points (90/10 system)</th>
<th>Number of points (80/20 system)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>2</td>
<td>9</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>
5.2 Bidders 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 SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA’s approval for conducting verification and issuing EMEs with B-BBEE Status Level Certificates.

5.3 Bidders 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.

5.4 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, if the entity submits their B-BBEE status level certificate.

5.5 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, if 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 bid.

5.6 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.

5.7 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.

5.8 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.
6. **BID DECLARATION**

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

7. **B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1**

7.1 B-BBEE Status Level of Contribution:........... = ...............(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 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).

8 **SUB-CONTRACTING**

8.1 Will any portion of the contract be sub-contracted? YES / NO (delete which is not applicable)

8.1.1 If yes, indicate:

(i) what percentage of the contract will be subcontracted?

..............................................%

(ii) the name of the sub-contractor?

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

(iii) the B-BBEE status level of the sub-contractor?

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

(iv) whether the sub-contractor is an EME? YES / NO (delete which is not applicable)

9 **DECLARATION REGARDING COMPANY/FIRM**

9.1 Name of company/firm ..........................................................

9.2 VAT registration number ................................................................

9.3 Company registration number............................................................

9.4 **TYPE OF COMPANY/ FIRM**

[ ] Partnership/Joint Venture / Consortium

[ ] One person business/sole propriety

[ ] Close corporation

[ ] Company

[ ] (Pty) Limited
9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

9.6 COMPANY CLASSIFICATION

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

9.7 Total number of years the company/firm has been in business?
……………………………………

9.8 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-BEE status level of contribution indicated in paragraph 7 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

   (i) The information furnished is true and correct;
   (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.

   (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
   (iv) If the B-BBEE status level of 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 bidding process;
       (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
       (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
       (d) restrict the bidder 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 for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
       (e) forward the matter for criminal prosecution
WITNESSES:

1. ...........................................

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

SIGNATURE(S) OF BIDDER(S)

2. ...........................................

DATE:......................................

ADDRESS:...............................
DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT

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

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:201x.

1. General Conditions

1.1. Preferential Procurement Regulations, 2011 (Regulation 9. (1) and 9. (3) make provision for the promotion of local production and content.

1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.

1.3. Regulation 9.(3) prescribes that where there is no designated sector, a specific bidding condition may be included, that only locally produced services, works or goods or locally manufactured goods with a stipulated minimum threshold for local production and content, will be considered.

1.4. Where necessary, for bids referred to in paragraphs 1.2 and 1.3 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.

1.5. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

1.6. The local content (LC) as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286:201x as follows:

\[
\text{LC} = \frac{100}{x \text{ imported content}}
\]

Where

- \( x \) imported content
- \( y \) bid price excluding value added tax (VAT)

Prices referred to in the determination of \( x \) must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid as indicated in paragraph 4.1 below.

1.7. A bid will be disqualified if:

- the bidder fails to achieve the stipulated minimum threshold for local production and content indicated in paragraph 3 below; and.
- this declaration certificate is not submitted as part of the bid documentation.

2. Definitions

2.1. “bid” includes advertised competitive bids, written price quotations or proposals;

2.2. “bid price” price offered by the bidder, excluding value added tax (VAT);

2.3. “contract” means the agreement that results from the acceptance of a bid by an organ of state;

2.4. “designated sector” means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;

2.5. “duly sign” means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by
the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).

2.6. “imported content” means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;

2.7. “local content” means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;

2.8. “stipulated minimum threshold” means that portion of local production and content as determined by the Department of Trade and Industry; and

2.9. “sub-contract” means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

3. The stipulated minimum threshold(s) for local production and content for this bid is/are as follows:

<table>
<thead>
<tr>
<th>Description of services, works or goods</th>
<th>Stipulated minimum threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Does any portion of the services, works or goods offered have any imported content? YES / NO

4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.6 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za. Indicate the rate(s) of exchange against the appropriate currency in the table below:

<table>
<thead>
<tr>
<th>Currency</th>
<th>Rates of exchange</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Dollar</td>
<td>SBD 6.2</td>
</tr>
<tr>
<td>Pound Sterling</td>
<td></td>
</tr>
<tr>
<td>Euro</td>
<td></td>
</tr>
<tr>
<td>Yen</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

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

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL) IN RESPECT OF BID No. ..............................................................

ISSUED BY: (Procurement Authority / Name of Institution):

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

NB The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

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

(a) The facts contained herein are within my own personal knowledge.
(b) I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286.
(c) The local content has been calculated using the formula given in clause 3 of SATS 1286, the rates of exchange indicated in paragraph 4.1 above and the following figures:

Bid price, excluding VAT (y) R
Stipulated minimum threshold for Local content (paragraph 3 above)

Local content %, as calculated in terms of SATS 1286
If the bid is for more than one product, a schedule of the local content by product shall be attached.

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

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

SIGNATURE: DATE: __________

WITNESS No. 1 DATE: __________

WITNESS No. 2 DATE: __________

FORM A 21.  SBD 8

DECLARATION OF BIDDER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

1 This Standard Bidding Document must form part of all bids invited.

2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.

3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
   a. abused the institution’s supply chain management system;
   b. committed fraud or any other improper conduct in relation to such system; or
   c. failed to perform on any previous contract.
To give effect to the above, the following questionnaire must be completed and submitted with the bid.

<table>
<thead>
<tr>
<th>Item</th>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Is the bidder or any of its directors listed on the National Treasury’s Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the audi alteram partem rule was applied). The Database of Restricted Suppliers now resides on the National Treasury’s website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4.1.1</td>
<td>If so, furnish particulars:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.2</td>
<td>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury’s website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4.2.1</td>
<td>If so, furnish particulars:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.3</td>
<td>Was the bidder 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?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4.3.1</td>
<td>If so, furnish particulars:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.4</td>
<td>Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4.4.1</td>
<td>If so, furnish particulars:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CERTIFICATION

I, THE UNDERSIGNED (FULL NAME) ……………………………………………………………

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

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

………………………………………...  ……………………………………..
Signature  Date

………………………………………...  ……………………………………..
Position  Name of Bidder
CERTIFICATE OF INDEPENDENT BID DETERMINATION

1. This Standard Bidding Document (SBD) must form part of all bids¹ 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 bidding (or bid rigging).² Collusive bidding is a per se prohibition meaning that it cannot be justified under any grounds.

3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
   a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution’s supply chain management system and or committed fraud or any other improper conduct in relation to such system.
   b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.

4. This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.

5. To give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

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

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

I, the undersigned, in submitting the accompanying bid:

________________________________________________________________________
(Bid Number and Description)

in response to the invitation for the bid 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 Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word “competitor” shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:

   (a) has been requested to submit a bid in response to this bid invitation;
   (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
   (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
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 bid;
   (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
   (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.......................................................... ..........................................................
Signature Date

..........................................................
Position Name of Bidder

³ 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.
A contract between AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED
Applicable at GEORGE AIRPORT
(Reg No.: 1993/004149/30)

and

(Registration Number: _____________)

for ENERGY EFFICIENCY UPGRADE

Contents:
Compiled in accordance with CIDB Standard for Uniformity in Construction Procurement (January 2009 amendments)  Page No.
Part C1  Agreements & Contract Data
C1.1 Form of Offer and Acceptance [2]
C1.2 Contract Data provided by the Employer [6]
C1.2 Contract Data provided by the Contractor [12]
Part C2  Pricing Data
C2.1 Pricing assumptions [20]
C2.2 Price List [21]
Part C3  Scope of Work
C3.1 Works Information [22]
Part C4  Site Information [32]

Documentation prepared by: Tshego Ntombela
C1 Agreements & Contract Data

C1.1 Form of Offer and Acceptance

Offer

The Employer, identified in the Acceptance page signature block on the next page, has solicited offers to enter into a contract for the procurement of a service provider for the following services:

Contract No. GRJ5845/2019 for the ACSA GRJ ENERGY EFFICIENCY UPGRADE AT GEORGE AIRPORT

The tenderer, identified in the signature block below, having examined the documents listed in the Tender Data and addenda thereto as listed in the Tender 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 Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the Contract Data.

| The offered total of the Prices exclusive of VAT is |                     |
| Value Added Tax @ 15% is |                     |
| The offered total of the Prices inclusive of VAT is |                     |
| (in words) |                     |

This Offer may be accepted by the Employer by signing the form of Acceptance overleaf and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, 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:  ____________________________________________

Name & signature of witness  __________________________________
Tenderer’s CIDB registration number (if applicable)  __________________________________
Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the tenderer’s Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the Contract Data. Acceptance of the tenderer’s Offer shall form an Agreement between the Employer and the tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the Contract, are contained in:

- Part 1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
- Part 2 Pricing Data
- Part 3 Scope of Work: Works Information
- Part 4 Site Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto 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 Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be signed by the duly authorised representative(s) for both parties.

The tenderer shall within one week of receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer’s agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. 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 copy of this document, including the Schedule of Deviations (if any) together with all the terms of the contract as listed above.

Unless the tenderer (now Contractor) within five working 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(s)

Name(s)  
Capacity

for the Employer

(Airports Company South Africa SOC Limited)

George Airport
P.O BOX 10000
George
Western Cape, 6530

Name & signature of witness

Date

Note: If a tenderer wishes to submit alternative tender offers, further copies of this document may be used for that purpose, duly endorsed, ‘Alternative Tender No. _____’.
## Schedule of Deviations

1. **Subject:** 
   Details: 
   - 
   - 
   - 
   - 

2. **Subject:** 
   Details: 
   - 
   - 
   - 
   - 

3. **Subject:** 
   Details: 
   - 
   - 
   - 
   - 

By the duly authorised representatives signing this Schedule of Deviations below, the Employer and the tenderer agree to and accept this Schedule of Deviations as the only 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 confirmation, clarification or changes to the terms of the Offer agreed by the tenderer and the Employer during this process of Offer and Acceptance.

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

### For the tenderer:
- **Signature:** 
- **Name:** 
- **Capacity:** 
- **On behalf of:** (Insert name and address of organisation)

### For the Employer:
- **Signature:** 
- **Name:** 
- **Capacity:** 
- **Name & signature of witness:** 
- **Date:** 

---

*Airports Company South Africa SOC Limited*  
George Airport  
P.O BOX 10000  
George  
Western Cape  
South Africa  
6530
### C1.2 Contract Data
Data provided by the *Employer*

<table>
<thead>
<tr>
<th>Clause</th>
<th>Statement</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.1</td>
<td>The <em>Employer</em> is (Name):</td>
<td>AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED</td>
</tr>
<tr>
<td></td>
<td>Address</td>
<td>Registered office at George Airport P.O BOX 10000 George Western Cape South Africa 6530</td>
</tr>
<tr>
<td></td>
<td>Tel No.</td>
<td>+27 44 876 9310</td>
</tr>
<tr>
<td></td>
<td>E-mail address</td>
<td><a href="mailto:tshego.ntombela@airports.co.za">tshego.ntombela@airports.co.za</a></td>
</tr>
<tr>
<td>11.2(11)</td>
<td>The works are</td>
<td>Replacement of all George Airport light fittings with LED fittings</td>
</tr>
<tr>
<td>11.2(13)</td>
<td>The Works Information is in</td>
<td>the document called ‘Works Information’ in Part 3 of this contract.</td>
</tr>
<tr>
<td>11.2(12)</td>
<td>The Site Information is in</td>
<td>the document called ‘Site Information’ in Part 4 of this contract.</td>
</tr>
<tr>
<td>11.2(12)</td>
<td>The site is</td>
<td>George Airport Landside</td>
</tr>
<tr>
<td>30.1</td>
<td>The starting date is.</td>
<td>On acceptance of Offer by the Employer</td>
</tr>
<tr>
<td>11.2(2)</td>
<td>The completion date is.</td>
<td>12 months from the starting date, or when the 12 months contract value has been exhausted, whichever occurs first</td>
</tr>
<tr>
<td>13.2</td>
<td>The period for reply is</td>
<td>7 (seven) days</td>
</tr>
<tr>
<td>40</td>
<td>The defects date is</td>
<td>Twelve (12) months after Completion of the whole of the works</td>
</tr>
<tr>
<td>41.3</td>
<td>The defect correction period is</td>
<td>2 (two) weeks</td>
</tr>
<tr>
<td>50.1</td>
<td>The assessment day is the</td>
<td>5th (fifth) of each month.</td>
</tr>
<tr>
<td>50.5</td>
<td>The delay damages are</td>
<td>Amount per day is 0.05%, to the maximum of 10% of the Contract value</td>
</tr>
<tr>
<td>50.6</td>
<td>The retention is</td>
<td>5%</td>
</tr>
<tr>
<td>51.2</td>
<td>The interest rate on late payment is</td>
<td>The prime lending rate of the Nedbank Bank. as determined from time to time.</td>
</tr>
<tr>
<td>80.1</td>
<td>The <em>Contractor</em> is not liable to the <em>Employer</em> for loss of or damage to the <em>Employer</em>’s property in excess of</td>
<td>Refer to Part C1.3</td>
</tr>
<tr>
<td>82.1</td>
<td>The <em>Employer</em> provides this insurance</td>
<td>Refer to Part C1.3</td>
</tr>
</tbody>
</table>
The minimum amount of cover for the third insurance stated in the Insurance Table is: whatever the Contractor deems necessary in addition to that provided by the Employer.

The minimum amount of cover for the fourth insurance stated in the Insurance Table is: As prescribed by the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 and the Contractor’s common law liability for people falling outside the scope of the Act.

### Does the United Kingdom Housing Grants, Construction and Regeneration Act (1996) apply?

No

#### The Adjudicator is (Name)

The person appointed jointly by the parties from the list of adjudicators contained in the Z clauses below.

#### The Adjudicator nominating body is:

The current Chairman of Johannesburg Advocate’s Bar Council.

### Delay Damages

Delay damages for each section of the work are 2% per week to the maximum of 10% of Total of the Contract value

### The Employer’s Agent

**Name:** Tshego Ntombela

**Address:**
George Airport  
Old Mossel Bay Road  
George  
6530

The authority of the Employer’s Agent is Project Manager.

### Termination by Employer

The Employer may terminate the Consultant’s obligation to Provide the services for a reason not stated in this contract by notifying the Consultant.

### Limitation of liability

The Consultant’s liability to the Employer for indirect or consequential loss is Nil  
The Employer’s liability to the Consultant for indirect or consequential loss is Nil  
The total Direct liability does not exceed 100% of the contract value cumulative total for either party

The Consultant’s liability to the Employer for Defects that are not found until after the defects date is capped at the total of the contract price.

The end of liability date is 1 years after Completion of the whole of the services.

### The tribunal is:

arbitration.

### The Additional conditions of Z1 – Z17 contract are

Amendments to the Core Clauses
**Z1 Interpretation of the law**

**Z1.1 Add to core clause 12.3:**
Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the Project Manager, the Supervisor, or the Adjudicator does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing.

**Z3 Other responsibilities:**

**Z4 Extending the defects date:**

**Z4.1 Add the following as a new clause 42.5:**
If the **Employer** cannot use the **works** due to a **Defect**, which arises after Completion and before the **defects date**, the **defects date** is delayed by a period equal to that during which the **Employer**, due to a Defect, is unable to use the **works**.

**Z4.2** If part of the **works** is replaced due to a **Defect** arising after Completion and before the **defects date**, the **defects date** for the part of the **works** which is replaced is delayed by a period equal to that between Completion and the date by when the part has been replaced.

**Z4.3** The Project Manager notifies the **Contractor** of the change to a **defects date** when the delay occurs. The period between Completion and an extended **defects date** does not exceed twice the period between Completion and the **defects date** stated in the Contract Data.

**Z5 Termination**

**Z5.1 Add the following to core clause 90.2, after the words “or its equivalent”:** “or business rescue proceedings are initiated or steps are taken to initiate business rescue proceedings”.

**Additional Z Clauses**

**Z6 Cession, delegation and assignment**

**Z6.1** The **Contractor** shall not cede, delegate or assign any of its rights or obligations to any person without the written consent of the **Employer**, which consent shall not be unreasonably withheld. This clause shall be binding on the liquidator/business rescue practitioner /trustee (whether provisional or not) of the **Contractor**.

**Z6.2** The **Employer** may cede and delegate its rights and obligations under this contract to any person or entity.

**Z7 Joint and several liability**

**Z7.1** If the **Contractor** constitutes a joint venture, consortium or other unincorporated grouping of two or more persons, these persons are deemed to be jointly and severally liable to the **Employer** for the performance of the Contract.

**Z7.2** The **Contractor** shall, within 1 week of the Contract Date, notify the Project Manager and the **Employer** of the key person who has the authority to bind the **Contractor** on their behalf.

**Z7.3** The **Contractor** does not materially alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without prior written consent of the **Employer**.

**Z8 Ethics**

**Z8.1** The **Contractor** undertakes:

**Z8.1.1** not to give any offer, payment, consideration, or benefit of any kind, which constitutes or could be construed as an illegal or corrupt practice, either directly or indirectly, as an inducement or reward for the award or in execution of this contract;
to comply with all laws, regulations or policies relating to the prevention and combating of bribery, corruption and money laundering to which it or the Employer is subject, including but not limited to the Prevention and Combating of Corrupt Activities Act, 12 of 2004.

The Contractor's breach of this clause constitutes grounds for terminating the Contractor's obligation to Provide the Works or taking any other action as appropriate against the Contractor (including civil or criminal action). However, lawful inducements and rewards shall not constitute grounds for termination.

If the Contractor is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices, including but not limited to the making of offers (directly or indirectly), payments, gifts, gratuity, commission or benefits of any kind, which are in any way whatsoever in connection with the contract with the Employer, the Employer shall be entitled to terminate the contract in accordance with the procedures stated in core clause 92.2. the amount due on termination is A1.

Confidentiality

All information obtained in terms of this contract or arising from the implementation of this contract shall be treated as confidential by the Contractor and shall not be used or divulged or published to any person not being a party to this contract, without the prior written consent of the Project Manager or the Employer, which consent shall not be unreasonably withheld.

If the Contractor is uncertain about whether any such information is confidential, it is to be regarded as such until otherwise notified by the Project Manager.

This undertaking shall not apply to –

Information disclosed to the employees of the Contractor for the purposes of the implementation of this agreement. The Contractor undertakes to procure that its employees are aware of the confidential nature of the information so disclosed and that they comply with the provisions of this clause;

Information which the Contractor is required by law to disclose, provided that the Contractor notifies the Employer prior to disclosure so as to enable the Employer to take the appropriate action to protect such information. The Contractor may disclose such information only to the extent required by law and shall use reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed;

Information which at the time of disclosure or thereafter, without default on the part of the Contractor, enters the public domain or to information which was already in the possession of the Contractor at the time of disclosure (evidenced by written records in existence at that time);

The taking of images (whether photographs, video footage or otherwise) of the works or any portion thereof, in the course of Providing the Works and after Completion, requires the prior written consent of the Project Manager. All rights in and to all such images vests exclusively in the Employer.

The Contractor ensures that all his Subcontractors abide by the undertakings in this clause.

Employer's Step-in rights

If the Contractor defaults by failing to comply with his obligations and fails to remedy such default within 2 weeks of the notification of the default by the Project Manager, the Employer, without prejudice to his other rights, powers and remedies under the contract, may remedy the default either himself or procure a third party (including any subcontractor or supplier of the Contractor) to do so on his behalf. The reasonable costs of such remedial works shall be borne by the Contractor.
PART C1: AGREEMENTS AND CONTRACT DATA

C1.2A ECSC3 CONTRACT DATA PART 1

Z10.2 The Contractor co-operates with the Employer and facilitates and permits the use of all required information, materials and other matter (including but not limited to documents and all other drawings, CAD materials, data, software, models, plans, designs, programs, diagrams, evaluations, materials, specifications, schedules, reports, calculations, manuals or other documents or recorded information (electronic or otherwise) which have been or are at any time prepared by or on behalf of the Contractor under the contract or otherwise for and/or in connection with the works) and generally does all things required by the Project Manager to achieve this end.

Z11 Liens and Encumbrances

Z11.1 The Contractor keeps the Equipment used to Provide the Services free of all liens and other encumbrances at all times. The Contractor, vis-a-vis the Employer, waives all and any liens which he may from time to time have, or become entitled to over such Equipment and any part thereof and procures that his Subcontractors similarly, vis-a-vis the Employer, waive all liens they may have or become entitled to over such Equipment from time to time.

Z12 Intellectual Property

Z12.1 Intellectual Property (“IP”) rights means all rights in and to any patent, design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the Works.

Z12.2 IP rights remain vested in the originator and shall not be used for any reason whatsoever other than carrying out the works.

Z12.3 The Contractor gives the Employer an irrevocable, transferrable, non-exclusive, royalty free licence to use and copy all IP related to the works for the purposes of constructing, repairing, demolishing, operating and maintaining the works.

Z12.4 The written approval of the Contractor is to be obtained before the Contractor's IP made available to any third party which approval will not be unreasonably withheld or delayed. Prior to making any Contractor's IP available to any third party the Employer shall obtain a written confidentiality undertaking from any such third party on terms no less onerous than the terms the Employer would use to protect its IP.

Z12.5 The Contractor shall indemnify and hold the Employer harmless against and from any claim alleging an infringement of IP rights (“the claim”), which arises out of or in relation to:

Z12.5.1 the Contractor's design, manufacture, construction or execution of the Works

Z12.5.2 the use of the Contractor's Equipment, or

Z12.5.3 the proper use of the Works.

Z12.6 The Employer shall, at the request and cost of the Contractor, assist in contesting the claim and the Contractor may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it.

Z13 Dispute resolution:

Z13.1 Appointment of the Adjudicator
An Adjudicator is appointed when a dispute arises, from the Panel of Adjudicators below. The referring party nominates an Adjudicator, which nomination is either accepted or rejected by the other party. In the instance of a rejection of the nominated Adjudicator, the referring Party refers the appointment deadlock to the Chairman of the Johannesburg Bar Council, who appoints an Adjudicator listed in the Panel of Adjudicators below.

The Parties appoint the Adjudicator under the NEC3 Adjudicator’s Contract, April 2013.

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contact details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adv. Ghandi Badela</td>
<td>Gauteng</td>
<td>+27 11 282 3700 <a href="mailto:ghandi@badela.co.za">ghandi@badela.co.za</a></td>
</tr>
<tr>
<td>Mr. Errol Tate Pr. Eng.</td>
<td>Durban</td>
<td>+27 11 262 4001 <a href="mailto:Errol.tate@mweb.co.za">Errol.tate@mweb.co.za</a></td>
</tr>
<tr>
<td>Adv. Saleem Ebrahim</td>
<td>Gauteng</td>
<td>+27 11 535-1800 <a href="mailto:salimebrahima@mweb.co.za">salimebrahima@mweb.co.za</a></td>
</tr>
<tr>
<td>Mr. Sebe Msutwana Pr. Eng.</td>
<td>Gauteng</td>
<td>+27 11 442 8555 <a href="mailto:sebe@civilprojects.co.za">sebe@civilprojects.co.za</a></td>
</tr>
<tr>
<td>Mr. Sam Amod</td>
<td>Gauteng</td>
<td><a href="mailto:sam@samamod.com">sam@samamod.com</a></td>
</tr>
<tr>
<td>Adv. Sias Ryneke SC</td>
<td>Gauteng</td>
<td>083 653 2281 <a href="mailto:reyneke@duma.nokwe.co.za">reyneke@duma.nokwe.co.za</a></td>
</tr>
<tr>
<td>Mr. Emeka Ogbugo (Quantity Surveyor)</td>
<td>Pretoria</td>
<td>+27 12 349 2027 <a href="mailto:emeka@gosiame.co.za">emeka@gosiame.co.za</a></td>
</tr>
</tbody>
</table>
Z13.2 Appointment of the Arbitrator

An Arbitrator is appointed when a dispute arises from the Panel of Arbitrators below. The referring party nominates an Arbitrator, which nomination is either accepted or rejected by the other party. In the instance of a rejection of the nominated Arbitrator, the referring Party refers the appointment deadlock to the Chairman of the Johannesburg Bar Council, who appoints an Arbitrator listed in the Panel of Arbitrators below.

Panel of Arbitrators

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contact details (phone &amp; e mail)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adv. Ghandi Badela</td>
<td>Gauteng</td>
<td>+27 11 282 3700 <a href="mailto:ghandi@badela.co.za">ghandi@badela.co.za</a></td>
</tr>
<tr>
<td>Mr. Errol Tate Pr. Eng.</td>
<td>Durban</td>
<td>+27 11 262 4001 <a href="mailto:Errol.tate@mweb.co.za">Errol.tate@mweb.co.za</a></td>
</tr>
<tr>
<td>Adv. Saleem Ebrahim</td>
<td>Gauteng</td>
<td>+27 11 535-1800 <a href="mailto:salimebrahim@mweb.co.za">salimebrahim@mweb.co.za</a></td>
</tr>
<tr>
<td>Mr. Sebe Msutwana Pr. Eng.</td>
<td>Gauteng</td>
<td>+27 11 442 8555 <a href="mailto:sebe@civilprojects.co.za">sebe@civilprojects.co.za</a></td>
</tr>
<tr>
<td>Mr. Sam Amod</td>
<td>Gauteng</td>
<td><a href="mailto:sam@samamod.com">sam@samamod.com</a></td>
</tr>
<tr>
<td>Adv. Sias Ryneke SC</td>
<td>Gauteng</td>
<td>083 653 2281 <a href="mailto:reyneke@duma.nokwe.co.za">reyneke@duma.nokwe.co.za</a></td>
</tr>
<tr>
<td>Mr. Emeka Ogbugo (Quantity Surveyor)</td>
<td>Pretoria</td>
<td>+27 12 349 2027 <a href="mailto:emeka@gosiame.co.za">emeka@gosiame.co.za</a></td>
</tr>
</tbody>
</table>

Z14 Notification of a compensation event

Z14.1 Delete “eight weeks” in clause 61.3 and replace with “four weeks”. Delete the words “unless the event arises from the Project Manager or the Supervisor giving an instruction, issuing a certificate, changing an earlier decision or correcting an assumption.”

Z15 BBBEE and Tax Clearance Certificates

Z15.1 The Contractor shall be expected to annually present a compliant BEE and Tax Clearance Certificate. Failure to do adhere to these requirements shall be considered a material breach of the conditions of this Contract, the sanction for which may be a cancellation of this Contract.

Z16 Communication

Z16.1 Add a new Core Clause 14.5 and 14.6 to read as follows:

The Project Manager requires the written consent of the Employer if an action will result in a change to the design, scope, and Works information that is 5% or more.

Z16.2 The Project Manager requires the written consent of the Employer if an action will result in the Completion Date being extended by more than 30 days.

Z17 Delegation

As stipulated by Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993 as amended the Contractor agrees to the following:

Z17.1 As part of this contract the Contractor acknowledge that it (mandatory) is an employer in its own right with duties as prescribed in the Occupational Health and Safety Act No 85 of 1993 as amended and agree to ensure that all work being performed, or Equipment, Plant and Materials being used, are in accordance with the provisions of the said Act, and in particular with regard to the Construction Regulations.
Data provided by the *Contractor* (the *Contractor’s Offer*)

The tendering contractor is advised to read both the NEC3 Project Managing and Construction Short Contract (June 2005) and the relevant parts of its Guidance Notes (ECSC3-GN)\(^1\) in order to understand the implications of this Data which the tenderer is required to complete. An example of the completed Data is provided on page 26 of the ECSC3 Guidance Notes.

Completion of the data in full is essential to create a complete contract.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1</td>
<td>The <em>Contractor</em> is (Name):</td>
</tr>
<tr>
<td></td>
<td>Address</td>
</tr>
<tr>
<td></td>
<td>Tel No.</td>
</tr>
<tr>
<td></td>
<td>Fax No.</td>
</tr>
<tr>
<td></td>
<td>E-mail address</td>
</tr>
</tbody>
</table>

| 63.2 | The percentage for overheads and profit added to the Defined Cost for people is  % |
| 63.2 | The percentage for overheads and profit added to other Defined Cost is  % |

| 11.2(9) | The Price List is in the document called ‘Price List’ in Part 2 of this contract. |
| 11.2(10) | The offered total of the Prices is [Enter the total of the Prices from the Price List]: excluding VAT |

---

\(^1\) Available from Engineering Contract Strategies Tel 011 803 3008, Fax 011 803 3009.
PART C1.3 INSURANCE
INSURANCE CLAUSES FOR CAPEX PROJECTS

SECTION A: DEFINITIONS

Landside refers to:

- Areas of the airport before the security points, and
- The restricted area beyond the security points but, within the perimeter of gatehouses, passenger terminals and cargo buildings

Airside refers to:

- The Apron / manoeuvring areas
- Area within the airside boundary/perimeter fence, excluding the internal areas of the passenger terminals, perimeter gatehouses and cargo building.

SECTION B: INSURANCE CLAUSES

1. Insurance requirements for contracts with a value below R50million on the LANDSIDE

1.1 Contract Works

- With regards to contract works claims, the contractor/consultant is responsible for a deductible (excess) of R250 000.
- Contractors / consultants may re-insure the deductible

1.2 Public Liability

- In the event of a claim against the contractor / consultant for 3rd party property damage the contractor / consultant will be responsible for a deductible (excess) of R275 000
- In the event of a claim against the contractor / consultant for removal of lateral support, the contractor / consultant will be responsible for a deductible (excess) of R500 000
- Contractors / consultants may re-insure the deductibles

1.3 Professional Indemnity

- All consultants are responsible for Professional Indemnity cover of R5million
- Contractors who have a material design element, excluding typical P & G related work, as part of their scope, are responsible for Professional Indemnity cover of R5million
- In the event of a claim above R5million, the ACSA PI cover will kick in for the amount in excess of R5m.
- Proof of cover in the form of a certificate of insurance should be provided to ACSA before a contract is signed between ACSA and the contractor and/or consultant.

2. Insurance requirements for contracts below R50million on the AIRSIDE

2.1 Contract Works

- With regards to contract works claims, the contractor / consultant is responsible for a deductible (excess) of R250 000.
- Contractors / consultants may re-insure the deductible
2.2 Public Liability

- In the event of a claim brought against the contractor / consultant for 3rd party property damage the contractor / consultant will be responsible for a deductible (excess) of R525 000
- In the event of a claim brought against the contractor / consultant for removal of lateral support, the contractor / consultant will be responsible for a deductible (excess) of R750 000
- In the event of a claim brought against the contractor / consultant for damage to aircraft, the contractor / consultant will be responsible for a deductible (excess) of R750 000
- Contractors / consultants may re-insure the deductibles

2.3 Professional Indemnity

- All consultants are responsible for Professional Indemnity cover of R5 million
- Contractors who have a material design element, excluding typical P & G related work, as part of their scope, are responsible for a Professional Indemnity cover of R5 million.
- In the event of a claim above R5 million, the ACSA PI cover will kick in for the amount in excess of R5 million.
- Proof of cover in the form of a certificate of insurance should be provided to ACSA before a contract is signed between ACSA and the contractor and/or consultant.

3. Insurance requirements for contracts with a value above R50 million on the LANDSIDE

- Contracts with a value of more R50 million are not automatically covered under the construction policies. A separate quote is provided by insurers per contract.

3.1 Contract Works

With regards to contract works claims, the contractor / consultant is responsible for the following deductibles:

- All Civil Work and Earthworks – R300 000 deductible (excess)
- All other claims – R300 000 deductible (excess)
- Other property insured – R700 000 deductible (excess)
- Contractors / consultants may re-insure the deductibles

3.2 Public Liability

- In the event of a claim brought against the contractor / consultant for 3rd party property damage the contractor / consultant will be responsible for a deductible (excess) of R275 000
- In the event of a claim brought against the contractor / consultant for removal of lateral support, the contractor / consultant will be responsible for a deductible (excess) of R500 000
- Contractors / consultants may re-insure the deductibles

3.3 Professional Indemnity

- All consultants are responsible for Professional Indemnity cover of R10 million
- Contractors who have a material design element, excluding typical P & G related work, as part of their scope, are responsible for a Professional Indemnity cover of R10 million
- In the event of a claim above R10 million, the ACSA PI cover will kick in for the amount in excess of R10m
- Proof of cover in the form of a certificate of insurance should be provided to ACSA before a contract is signed between ACSA and the contractor and/or consultant.
4. Insurance requirements for contracts with a value above R50 million on the AIRSIDE

- Contracts with a value of more R50 million are not automatically covered under the construction policies. A separate quote is provided by insurers per contract.

4.1 Contract Works

With regards to contract works claims, the contractor / consultant is responsible for the following deductibles:

- All Civil Work and Earthworks excluding Runways – R300 000 deductible (excess)
- Runway Rehabilitation – R300 000 deductible (excess)
- New Runway Construction – R700 000 deductible (excess)
- All other claims – R300 000 deductible (excess)
- Other property insured – R700 000 deductible (excess)
- Contractors / consultants may re-insure the deductibles

4.2 Public Liability

- In the event of a claim brought against the contractor / consultant for 3rd party property damage the contractor / consultant will be responsible for a deductible (excess) of R1 025 000
- In the event of a claim brought against the contractor / consultant for removal of lateral support, the contractor / consultant will be responsible for a deductible (excess) of R1 250 000
- In the event of a claim for damage to aircraft, the contractor / consultant will be responsible for a deductible (excess) of R1 250 000
- Contractors / consultants may re-insure the deductibles

4.3 Professional Indemnity

- All consultants are responsible for Professional Indemnity cover of R10 million
- Contractors who have a material design element, excluding typical P & G related work, as part of their scope, are responsible for a Professional Indemnity cover of R10 million
- In the event of a claim above R10 million, the ACSA PI cover will kick in for the amount in excess of R10m
- Proof of cover in the form of a certificate of insurance should be provided to ACSA before a contract is signed between ACSA and the contractor and/or consultant.
C1.4: OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH & SAFETY ACT (ACT 85 Of 1993) & CONSTRUCTION REGULATION 5.1(k)

OBJECTIVES

To assist Airport Company South Africa (ACSA) in order to comply with the requirements of:

3. The Occupational Health & Safety (Act 85 of 1993) and its regulations and
4. The Compensation for Occupational Injuries & Diseases Act (Act 130 of 1993) also known as the (COID Act).

To this end an Agreement must be concluded before any contractor/subcontracted work may commence.

The parties to this Agreement are:

<table>
<thead>
<tr>
<th>Name of Organisation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRPORTS COMPANY SOUTH AFRICA</td>
</tr>
<tr>
<td>GEORGE AIRPORT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Address:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airports Company South Africa SOC Limited</td>
</tr>
<tr>
<td>George Airport</td>
</tr>
<tr>
<td>Administration Office</td>
</tr>
<tr>
<td>Southern Office Block</td>
</tr>
<tr>
<td>Western Cape</td>
</tr>
<tr>
<td>South Africa</td>
</tr>
<tr>
<td>7525</td>
</tr>
</tbody>
</table>

Hereinafter referred to as “Client”

<table>
<thead>
<tr>
<th>Name of organisation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Address:</td>
</tr>
</tbody>
</table>

Hereinafter referred to as “the Mandatory/Principal Contractor”
MANDATORY'S MAIN SCOPE OF WORK

GENERAL INFORMATION FORMING PART OF THIS AGREEMENT

10. The Occupational Health & Safety Act comprises of SECTION 1-50 and all unrepealed REGULATIONS promulgated in terms of the former Machinery and Occupational Safety Act No.6 of 1983 as amended as well as other REGULATIONS which may be promulgated in terms of the Act and other relevant Acts pertaining to the job in hand.

11. “Mandatary” is defined as including as agent, a principal contractor or a contractor for work, but WITHOUT DEROGATING FROM HIS/HER STATUS IN HIS/HER RIGHT AS AN EMPLOYER or user of the plant.

12. Section 37 of the Occupational Health & Safety Act potentially punishes Employers (PRINCIPAL CONTRACTOR) for unlawful acts or omissions of Mandataries (CONTRACTORS) save where a Written Agreement between the parties has been concluded containing arrangements and procedures to ensure compliance with the said Act BY THE MANDATORY.

13. All documents attached or refer to in the above Agreement form an integral part of the Agreement.

14. To perform in terms of this agreement Mandatories must be familiar and conversant with the relevant provisions of the Occupational Health & Safety Act 85 of 1993 (OHS Act) and applicable Regulations.

15. Mandatories who utilise the services of their own Mandatories (contractors) must conclude a similar Written Agreement with them.

16. Be advised that this Agreement places the onus on the Mandatary to contact the CLIENT in the event of inability to perform as per this Agreement.

17. This Agreement shall be binding for all work the Mandatary undertakes for the client.

18. All documentation according to the Safety checklist including a copy of the written Construction Manager appointment in terms of construction regulation 8, must be submitted 7 days before work commences.

THE UNDERTAKING

The Mandatary undertakes to comply with:

INSURANCE

3. The Mandatary warrants that all their employees and/or their contractor’s employees if any are covered in terms of the COID Act, which shall remain in force whilst any such employees are present on the Client’s premises. A letter is required prior commencing any work on site confirming that the Principal contractor or contractor is in good standing with the Compensation Fund or Licensed Insurer.

4. The Mandatary warrants that they are in possession of the following insurance cover, which cover shall remain in force whilst they and/or their employees are present on the Client’s premises, or which shall remain in force for that duration of their contractual relationship with the Client, whichever period is the longest.

   a. Public Liability Insurance Cover as required by the Subcontract Agreement.

   b. Any other Insurance cover that will adequately makes provision for any possible losses and/or claims arising from their and/or their Subcontractors and/or their respective employee’s acts and/or omissions on the Client’s premises.
COMPLIANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT 85 OF 1993

The Mandatary undertakes to ensure that they and/or their subcontractors if any and/or their respective employees will at all times comply with the following conditions:

1. All work performed by the Mandatary on the Client’s premises must be performed under the close supervision of the Mandatary’s employees who are to be trained to understand the hazards associated with any work that the Mandatary performs on the Client’s premises.
2. The Mandatary shall be assigned the responsibility in terms of Section 16(1) of the OHS Act 85 of 1993, if the Mandatary assigns any duty in terms of Section 16(2), a copy of such written assignment shall immediately be forwarded to the Client.
3. The Mandatary shall ensure that he/she familiarise himself/herself with the requirements of the OHS Act 85 of 1993 and that s/he and his/her employees and any of his subcontractors comply with the requirements.
4. The Mandatary shall ensure that a baseline risk assessment is performed by a competent person before commencement of any work in the Client’s premises. A baseline risk assessment document will include identification of hazards and risk, analysis and evaluation of the risks and hazards identified, a documented plan and safe work procedures to mitigate, reduce or control the risks identified, and a monitoring and review plan of the risks and hazards.
5. The Mandatary shall appoint competent persons who shall be trained on any Occupational Health & Safety aspect pertaining to them or to the work that is to be performed.
6. The Mandatary shall ensure that discipline regarding Occupational Health & Safety shall be strictly enforced.
7. Any personal protective equipment required shall be issued by the Mandatary to his/her employees and shall be worn at all times.
8. Written safe working practices/procedures and precautionary measures shall be made available and enforced and all employees shall be made conversant with the contents of these practises.
9. No unsafe equipment/machinery and/or articles shall be used by the Mandatary or contractor on the Client’s premises.
10. All incidents/accidents referred to in OHS Act shall be reported by the Mandatary to the Provincial Director: Department of Labour as well as to the Client.
11. No user shall be made by the Mandatary and/or their employees and or their subcontractors of any of the Client’s machinery/article/substance/plant/personal protective equipment without prior written approval.
12. The Mandatary shall ensure that work for which the issuing of permit is required shall not be performed prior to the obtaining of a duty completed approved permit.
13. The Mandatary shall ensure that no alcohol or any other intoxicating substance shall be allowed on the Client’s premises. Anyone suspected to be under the influence of alcohol or any other intoxicating substance shall not be allowed on the premises. Anyone found on the premises suspected to be under the influence of alcohol or any other intoxicating substance shall be escorted off the said premises immediately.
14. Full participation by the Mandatary shall be given to the employees of the Client if and when they inquire into Occupational Health & Safety.

FURTHER UNDERTAKING

6. Only a duly authorised representative appointed in terms of Section 16.2 of the OHS Act is eligible to sign this agreement on behalf of the Mandatary. The signing power of this representative must be designated in writing by the Chief Executive Officer of the Mandatary. A copy of this letter must be made available to the Client.
7. The Mandatary confirms that he has been informed that he must report to the Client’s management, in writing anything he/she deems to be unhealthy and/or unsafe. He has versed his employees in this regard.
8. The Mandatary warrants that he/she shall not endanger the health & safety of the Client’s
employees and other persons in any way whilst performing work on the Client’s premises.

9. The Mandatary understands that no work may commence on the Client’s premises until this procedure is duly completed, signed and received by the Client.

10. Non-compliance with any of the above clauses may lead to an immediate cancellation of the contract.

ACCEPTANCE BY MANDATARY

In terms of section 37(2) of the Occupational Health & Safety Act 85 of 1993 and section 5.1(k) of the Construction Regulations 2014,

I ………………………………….a duly authorised 16.2 Appointee acting for and on behalf of ……………………………………………….. (company name) undertake to ensure that the requirements and the provision of the OHS Act 85 of 1993 and its regulations are complied with.

Mandatary – WCA/ Federated Employers Mutual No…………………………………

Expiry date ……………………………………………………………………………………

________________________________________  ______________________________
SIGNATURE ON BEHALF OF MANDATARY DATE
(Warrant his authority to sign)

________________________________________  ______________________________
SIGNATURE ON BEHALF OF THE CLIENT DATE
AIRPORT COMPANY SOUTH AFRICA

PART C1: AGREEMENTS AND CONTRACT DATA  PAGE 64  C1.4 ECSC3 CONTRACT DATA PART 2
C2 Pricing Data

C2.1 Pricing assumptions

Entries in the first four columns in the Price List are made either by the Employer or the tendering contractor.

If the Contractor is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tenderer enters the amount in the Price column only; the Unit, Quantity and Rate columns being left blank.

If the Contractor is to be paid an amount for the item of work which is the rate for the work multiplied by the quantity completed, the tenderer enters the rate which is then multiplied by the expected quantity to produce the Price, which is also entered.

All Prices are to be shown excluding VAT unless instructed otherwise by the Employer in Tender Data or in an instruction the Employer has given before the tenderer enters his Prices.

If there is insufficient space in the Price List which follows, state in which document the Price List is contained.
C2.2 Price List: The Price List is as follows

## SCHEDULE A: PROVISIONAL & GENERAL

<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION, note all items to be designed, supplied, installed &amp; commissioned as applicable. Items not covered by the schedule must be listed below. If quantities are zero then provide rates only:</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate Material</th>
<th>Rate Installation</th>
<th>R Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>CONTRACTORS FIXED CHARGES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.1</td>
<td>Transport &amp; logistics to site</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.2</td>
<td>Establishment of construction site facilities</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.3</td>
<td>Erection &amp; removal of project board</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.4</td>
<td>Compliance with OHS ACT requirements</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.5</td>
<td>Compliance with Environmental requirements</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.6</td>
<td>Factory acceptance tests</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.7</td>
<td>Site acceptance tests</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.8</td>
<td>Measurement of initial and lux levels at commissioning</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.9</td>
<td>Measurement of lux levels for 25 m² area</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.10</td>
<td>Testing &amp; commissioning</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.11</td>
<td>Preparation of 4 sets of as built manuals plus electronic version</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.12</td>
<td>Operation and management training of Employer staff (3 day)</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.13</td>
<td>Cost of disposal of Fluorescent lamps of all replaced luminaires including certification</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.14</td>
<td>Buy back of 80% of luminaires replaced (Negative value)</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>CONTRACTORS TIME RELATED ITEMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.1</td>
<td>Contractual requirements</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.2</td>
<td>Operation/maintenance of facilities/site</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.3</td>
<td>Project Management &amp; Works Supervision</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.4</td>
<td>ACSA approved security provider</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.5</td>
<td>Accommodation</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.6</td>
<td>Company and Head Office overhead costs</td>
<td>Item</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3</td>
<td>All other items deemed necessary to complete the works. (Specify):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total excl.VAT carried forward to SCHEDULE C
### SCHEDULE B: LED LUMINAIRES

<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION, note all items to be designed, supplied, installed &amp; commissioned as applicable. Items not covered by the schedule must be listed below. If quantities are zero then provide rates only:</th>
<th>Unit</th>
<th>Qty</th>
<th>Rands Material</th>
<th>Rands Installation</th>
<th>R Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>LUMINAIRES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1.1</td>
<td>Type R1 - 40W LED recessed 600mm x 600mm</td>
<td>Each</td>
<td>181</td>
<td>181</td>
<td>181</td>
<td>362</td>
</tr>
<tr>
<td>B1.2</td>
<td>Type R1 - 40W LED recessed 600mm x 600mm (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.3</td>
<td>Type R1E - 40W LED recessed 600mm x 600mm Emergency version</td>
<td>Each</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>42</td>
</tr>
<tr>
<td>B1.4</td>
<td>Type R1E - 40W LED recessed 600mm x 600mm Emergency version (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.5</td>
<td>Type R2 - 32W LED recessed 600mm x 600mm</td>
<td>Each</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>500</td>
</tr>
<tr>
<td>B1.6</td>
<td>Type R2 - 32W LED recessed 600mm x 600mm (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.7</td>
<td>Type R2E - 32W LED recessed 600mm x 600mm Emergency version</td>
<td>Each</td>
<td>48</td>
<td>48</td>
<td>48</td>
<td>96</td>
</tr>
<tr>
<td>B1.8</td>
<td>Type R2E - 32W LED recessed 600mm x 600mm Emergency version (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.9</td>
<td>Type L1 – 44W LED Surface channel luminaire</td>
<td>Each</td>
<td>305</td>
<td>305</td>
<td>305</td>
<td>610</td>
</tr>
<tr>
<td>B1.10</td>
<td>Type L1 – 44W LED Surface channel luminaire (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.11</td>
<td>Type L2 – 40W LED Exterior surface channel luminaire</td>
<td>Each</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>B1.12</td>
<td>Type L2 – 40W LED Exterior surface channel luminaire (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.13</td>
<td>Type H – 102W High Bay luminaire</td>
<td>Each</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>B1.14</td>
<td>Type H – 102W High Bay luminaire (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.15</td>
<td>Type B – 14.7W Bulkhead luminaire</td>
<td>Each</td>
<td>153</td>
<td>153</td>
<td>153</td>
<td>306</td>
</tr>
<tr>
<td>B1.16</td>
<td>Type B – 14.7W Bulkhead luminaire (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.17</td>
<td>Type BE – 14,7W Bulkhead luminaire Emergency version</td>
<td>Each</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>B1.18</td>
<td>Type BE – 14,7W Bulkhead luminaire Emergency version (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.19</td>
<td>Type D – 10W LED Downlight luminaire</td>
<td>Each</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>80</td>
</tr>
<tr>
<td>B1.20</td>
<td>Type D – 10W LED Downlight luminaire (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.21</td>
<td>Type S – 24LED/38W Street / Area Lighting</td>
<td>Each</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>68</td>
</tr>
<tr>
<td>B1.22</td>
<td>Type S – 24LED/38W Street / Area Lighting (Spare)</td>
<td>Each</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>B1.23</td>
<td>Type S - Extra over for daylight switch</td>
<td>Each</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>68</td>
</tr>
<tr>
<td>B1.24</td>
<td>Type S - Extra over for pre programmable dimming option</td>
<td>Each</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>68</td>
</tr>
</tbody>
</table>

Total excl.VAT carried forward to next page
### SCHEDULE C: DALI SYSTEM

**DESCRIPTION**, note all items to be designed, supplied, installed & commissioned as applicable. Items not covered by the schedule must be listed below. If quantities are zero then provide rates only:

<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION</th>
<th>Unit</th>
<th>Qty</th>
<th>Rands Material</th>
<th>Rands Installation</th>
<th>R Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C1</strong></td>
<td><strong>SENSORS &amp; SWITCHING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2.1</td>
<td>DALI Recessed low level multi sensor</td>
<td>Each</td>
<td>98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2.2</td>
<td>DALI Recessed low level multi sensor (Spare)</td>
<td>Each</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2.3</td>
<td>DALI High Bay sensor</td>
<td>Each</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2.4</td>
<td>DALI High Bay sensor (Spare)</td>
<td>Each</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2.5</td>
<td>IR remote</td>
<td>Each</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DALI Relay Module</td>
<td>Each</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C2</strong></td>
<td><strong>DALI INFRASTRUCTURE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total devices</strong></td>
<td></td>
<td>1254</td>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>B3.2</td>
<td>DALI Power Supply with RS232 DIN rail mounted</td>
<td>Each</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.4</td>
<td>DALI Power Supply with RS232 DIN rail mounted (Spare)</td>
<td>Each</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RS232 cable between Power supplies and gateways</td>
<td>Each</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAT5 cable x 5m to network socket with terminations</td>
<td>m</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.5</td>
<td>DALI wiring 1.5mm 16A 2 300/500V core Grey Cabtyre cable</td>
<td>m</td>
<td>21747</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.6</td>
<td>DALI USB interface port</td>
<td>Each</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.8</td>
<td>USB fly lead cable for interface</td>
<td>m</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.9</td>
<td>DALI configuration software</td>
<td>Sum</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.10</td>
<td>DALI Bus commissioning</td>
<td>Each</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3.11</td>
<td>DALI Repeater</td>
<td>Each</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DALI Gateway with control for 4 devices min.</td>
<td>Each</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gateway power supply</td>
<td>Each</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clip Lock type connectors for DALI bus (min 3 way)</td>
<td>Each</td>
<td>2508</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enclosure with DIN rail housing a gateway, DALI power supplies, etc</td>
<td>Each</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single pole neutral breaker/isolator for Mains in enclosure</td>
<td>Each</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power supply to enclosure:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30m 1.5mm/3C surfix</td>
<td>Each</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5A circuit breaker in existing db</td>
<td>Each</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Network supply to enclosure from existing point:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total excl.VAT brought forward from previous page

---

**PART C2: PRICING DATA**

**PAGE 68**

**C2.2 ECSC3 PRICE LIST**
<table>
<thead>
<tr>
<th>C3</th>
<th>LIGHT MANAGEMENT SYSTEM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>System</td>
<td>Sum 1</td>
</tr>
<tr>
<td></td>
<td>Monthly subscription for a year?</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C4</th>
<th>GENERAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B4.1</td>
<td>Each 30</td>
</tr>
<tr>
<td></td>
<td>5A Single pole 6kA 26mm width Circuit breaker</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B4.2</td>
<td>Each 1</td>
</tr>
<tr>
<td></td>
<td>5 Amp plug top and 3 meter Cord set</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B4.3</td>
<td>sum 1</td>
</tr>
<tr>
<td></td>
<td>Labelling and notices</td>
<td></td>
</tr>
</tbody>
</table>

Total excl.VAT carried forward to SCHEDULE C
## SCHEDULE C: CALCULATION OF TENDER SUM

<table>
<thead>
<tr>
<th>Total</th>
<th>Description</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>PROVISIONAL AND GENERAL</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>LOW VOLTAGE INSTALLATION</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td><strong>SUB TOTAL 1 (Items A + B)</strong></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>PROVISIONAL SUM ITEMS</strong></td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>OHS ACT Agent</td>
<td>R 25 000.00</td>
</tr>
<tr>
<td>2.2</td>
<td>General wiring</td>
<td>R 10 000.00</td>
</tr>
<tr>
<td>2.3</td>
<td>Street light Pole</td>
<td>R 10 000.00</td>
</tr>
<tr>
<td>2.4</td>
<td>Power quality recorder</td>
<td>R 90 000.00</td>
</tr>
<tr>
<td>2.5</td>
<td>Builders work</td>
<td>R 20 000.00</td>
</tr>
<tr>
<td>2.6</td>
<td><strong>ADD TOTAL OF PROVISIONAL SUM ITEMS (Items 2.1 to 2.9)</strong></td>
<td>R 155 000.00</td>
</tr>
<tr>
<td>2.7</td>
<td><strong>ADD CONTRACTOR'S MARK-UP ON TOTAL OF PROVISIONAL SUM (Item 2.10)</strong></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td><strong>SUB TOTAL 2 (Items 1 + 2.16 + 2.17)</strong></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><strong>ADD 10% CONTINGENCIES</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td><strong>SUB TOTAL 3 (Items 3 + 4)</strong></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td><strong>ADD 15% VAT</strong></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td><strong>TENDER TOTAL INCLUDING VAT TRANSFERRED TO C1.1 (FORM OF OFFER) (Items 5 + 6)</strong></td>
<td></td>
</tr>
</tbody>
</table>
## SCHEDULE D: DAY WORKS

<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Labour: Normal time&lt;br&gt;In the rates tendered, allowance for the use of all small tools&lt;br&gt;a) Unskilled&lt;br&gt;b) Semi-skilled&lt;br&gt;c) Skilled</td>
<td>R/Hr&lt;br&gt;R/Hr&lt;br&gt;R/Hr</td>
</tr>
<tr>
<td>D2</td>
<td>Labour: Overtime (Normal)&lt;br&gt;In the rates tendered, allowance for the use of all small tools&lt;br&gt;a) Unskilled&lt;br&gt;b) Semi-skilled&lt;br&gt;c) Skilled</td>
<td>R/Hr&lt;br&gt;R/Hr&lt;br&gt;R/Hr</td>
</tr>
<tr>
<td>D3</td>
<td>Material&lt;br&gt;Percentage profit on nett cost of material</td>
<td>%</td>
</tr>
<tr>
<td>D4</td>
<td>Transport and equipment&lt;br&gt;a) Sedan or LDV&lt;br&gt;b) 10 tonne truck&lt;br&gt;c) 10 tonne mobile&lt;br&gt;d) Compressor&lt;br&gt;e) JCB</td>
<td>R/Km&lt;br&gt;R/Km&lt;br&gt;R/Hr&lt;br&gt;R/Hr&lt;br&gt;R/Hr</td>
</tr>
</tbody>
</table>

Name of Tenderer:  
Signature of Tenderer:  
Date:
# C3: Scope of Work

<table>
<thead>
<tr>
<th>HEADING</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C3.1: GENERAL REQUIREMENTS</td>
<td>4</td>
</tr>
<tr>
<td>C3.2: TECHNICAL REQUIREMENTS</td>
<td>9</td>
</tr>
<tr>
<td>C3.3: MANAGEMENT OF THE WORKS</td>
<td>29</td>
</tr>
<tr>
<td>C3.4: APPLICABLE STANDARDS</td>
<td>36</td>
</tr>
<tr>
<td>C3.5: GENERIC SPECIFICATIONS</td>
<td>Separately</td>
</tr>
<tr>
<td>C3.6: RETURNABLE TECHNICAL SCHEDULES</td>
<td>Separately</td>
</tr>
</tbody>
</table>
PART C3.1: GENERAL REQUIREMENTS ................................................................. 4
1. INTRODUCTION .............................................................................................. 4
2. INTERPRETATION AND TERMINOLOGY ..................................................... 5
3. DESCRIPTION OF WORK ............................................................................. 7
4. CONTRACTOR’S RESPONSIBILITY ................................................................. 7
5. ACSA’S OBJECTIVES ................................................................................... 7
6. STATUTORY REQUIREMENTS SPECIFICATIONS AND STANDARDS ........ 8
7. CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS .................... 8
8. ITEMS REQUIRING SPECIAL ATTENTION ................................................ 8
9. LABOUR ......................................................................................................... 8
10. TRAINING .................................................................................................... 9
11. OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) .......... 9
12. SAFETY PROCEDURE: NETWORK SWITCHING ..................................... 9
13. SCHEDULES TO BE COMPLETED ............................................................. 9
14. LOCAL MANUFACTURING ........................................................................... 9

PART C3.2: TECHNICAL REQUIREMENTS ......................................................... 10
1. GENERAL CONSIDERATIONS FOR METHOD STATEMENT ..................... 10
2. SITE DATA ................................................................................................... 10
3. GENERAL TECHNICAL REQUIREMENTS ............................................... 11
4. LUX LEVEL MEASUREMENTS ................................................................. 11
5. LUMINAIRES ............................................................................................... 12
5.1. General conditions .................................................................................. 12
5.2. Emergency lighting ................................................................................ 12
5.3. Luminaire types ...................................................................................... 14
5.4. Warranty .................................................................................................. 22
6. DALI SYSTEM ............................................................................................. 22
6.1. General ..................................................................................................... 22
6.2. Dal Power Supply .................................................................................... 23
6.3. Interface .................................................................................................. 23
6.4. DALI Cabling ......................................................................................... 23
7. SWITCHGEAR .............................................................................................. 23
8. CABLE RETICULATION MANAGEMENT ............................................... 23
8.1. Metal Cable Trays .................................................................................... 23
8.2. Accessories ............................................................................................ 23
9. OCCUPANCY SENSORS ........................................................................... 24
9.1. DALI Recessed low level multi sensor ................................................... 24
9.2. DALI High Bay sensor ........................................................................... 25
9.3. Remote settings ...................................................................................... 26
10. SURGE ARRESTORS .................................................................................. 26
11. ELECTRICAL CABLING AND WIRING ............................................... 27
11.1. Cable data cabling ................................................................................ 27
11.2. PVC Insulated Cables .......................................................................... 27
11.3. House Wire ........................................................................................... 27

PART C3.3: MANAGEMENT OF THE WORKS .................................................. 29
1. PROGRAM AND KEY MILESTONES .......................................................... 29
PART C

3. SCOPE OF WORK

3.1: ECSC3 GENERAL REQUIREMENTS

2. MATERIAL QUALITY SPECIFICATION ................................................................. 29
3. PROJECT MEETINGS .......................................................................................... 30
4. SAMPLES ........................................................................................................... 30
5. CONTRACT PRICE ADJUSTMENT ...................................................................... 30
6. PROVISIONAL AND GENERAL ITEMS .......................................................... 30
   6.1. Site security and storage ........................................................................... 30
   6.2. Consumables and utilities - electricity, water, sewage and waste disposal services .................................................................................................................. 31
7. PC SUMS ........................................................................................................... 31
8. DRAWINGS AND TECHNICAL DOCUMENTATION ....................................... 31
9. PROJECT BOARD ............................................................................................. 31
10. ENVIRONMENT ............................................................................................... 31
11. HEALTH AND SAFETY .................................................................................. 31
12. RECORDING OF WEATHER .......................................................................... 32
13. QUALITY MANAGEMENT ............................................................................... 32
14. INSPECTION TESTING AND COMMISSIONING ......................................... 32
   14.1. General Requirements ........................................................................... 33
15. CONTRACTORS GUARANTEE ON PERFORMANCE AND AVAILABILITY ... 35
16. WARRANTIES ................................................................................................... 35
17. SPARES ........................................................................................................... 35
18. EXISTING INSTALLATION ............................................................................ 35

PART C3.4: APPLICABLE STANDARDS .................................................................. 36
PART C3.1: GENERAL REQUIREMENTS

INTRODUCTION

This Scope of Work is also referred to as the Project Specification.

Part C3.1 contains a general description of the project, available facilities, and the conditions with which the works must comply with.

Part C3.2 contains the technical requirements and specifications for the project.

Part C3.3 contains the project management requirements.

Part C3.4 contains a schedule of the standardised and particular specifications applicable to this contract.

Part C3.5 contains the generic specifications.

Part C3.6 contains the compulsory returnable technical schedules.

The Supply Authority: GEORGE MUNICIPALITY supply the Airport with bulk electricity on Medium Voltage level
### INTERPRETATION AND TERMINOLOGY

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ABBREVIATION</th>
<th>INTERPRETATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternating Current</td>
<td>AC</td>
<td></td>
</tr>
<tr>
<td>Certificate of Compliance</td>
<td>COC</td>
<td></td>
</tr>
<tr>
<td>Contract Price Adjustment</td>
<td>CPA</td>
<td></td>
</tr>
<tr>
<td>Control and Management System</td>
<td>CMS</td>
<td></td>
</tr>
<tr>
<td>Direct Current</td>
<td>DC</td>
<td></td>
</tr>
<tr>
<td>Engineering Procurement and Construction</td>
<td>EPC</td>
<td></td>
</tr>
<tr>
<td>Factory Acceptance Testing</td>
<td>FAT</td>
<td></td>
</tr>
<tr>
<td>Low Voltage</td>
<td>LV</td>
<td></td>
</tr>
<tr>
<td>Operating and Maintenance</td>
<td>O&amp;M</td>
<td></td>
</tr>
<tr>
<td>Provisional Acceptance Test</td>
<td>PAT</td>
<td></td>
</tr>
<tr>
<td>Project Quality Plan</td>
<td>PQP</td>
<td></td>
</tr>
<tr>
<td>Project Inspection and Test Plan</td>
<td>ITP</td>
<td></td>
</tr>
<tr>
<td>Rate of Change of Frequency</td>
<td>ROCOF</td>
<td></td>
</tr>
<tr>
<td>Approved</td>
<td></td>
<td>Approved in writing by the Employer</td>
</tr>
<tr>
<td>Certificate of Practical Completion</td>
<td></td>
<td>When the whole or portion of the Works has reached a state of readiness fit for the intended purpose, and occupation without danger or undue inconvenience to the Employer, although some work may be outstanding</td>
</tr>
<tr>
<td>Certificate of (Works) Completion</td>
<td></td>
<td>As soon as the defects list issued in terms of the Certificate of Practical Completion has been duly completed, the Employer’s agent shall deliver to the Contractor and the Employer a Certificate of Completion</td>
</tr>
<tr>
<td>Certificate of Final Approval</td>
<td></td>
<td>The Works shall not be considered as complete in all respects until a Final Approval Certificate has been delivered by the Employers Agent to the Employer and the Contractor</td>
</tr>
<tr>
<td>Commencement date</td>
<td></td>
<td>The date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect</td>
</tr>
<tr>
<td>Commencement of Works</td>
<td></td>
<td>When the Contractor commence executing the Works, following instruction by the Engineer (Site handover)</td>
</tr>
<tr>
<td>Contract</td>
<td></td>
<td>The documentation of the agreement between the Contractor and Employer in terms of the Form of Offer and Acceptance</td>
</tr>
<tr>
<td>Contractor</td>
<td></td>
<td>The successful Tenderer appointed to execute the Contract</td>
</tr>
<tr>
<td>DALI</td>
<td></td>
<td>Digital Addressable Lighting Interface</td>
</tr>
<tr>
<td>Defects Liability Period</td>
<td></td>
<td>The 12-month period commencing from the issue of the Certificate of Completion</td>
</tr>
<tr>
<td>Document</td>
<td></td>
<td>This complete set of bound conditions, specifications, Bill of Quantities, drawings and schedules also refered to as the Tender Document</td>
</tr>
<tr>
<td>Drawings</td>
<td></td>
<td>Drawings issued with the Tender Documentation</td>
</tr>
<tr>
<td>As Built / Record Drawings</td>
<td></td>
<td>As-Build Drawings of the complete plant including civil works and equipment installation specifications</td>
</tr>
<tr>
<td>Emergency lighting self-contained</td>
<td></td>
<td>Luminaire with built in batteries that provide emergency light during a power failure</td>
</tr>
<tr>
<td>Maintained</td>
<td></td>
<td>Luminaire that can be used to provide both normal and emergency lighting</td>
</tr>
<tr>
<td>Employer</td>
<td></td>
<td>The Employer or ACSA</td>
</tr>
<tr>
<td>Employer’s Agent</td>
<td></td>
<td>The Employer’s Agent is BDE Consulting Engineers, acting through a director or an official authorised thereto in writing, also referred to as the Engineer</td>
</tr>
<tr>
<td>Handover</td>
<td></td>
<td>When the Contractor is given permission to enter the site and claim possession for the construction period</td>
</tr>
<tr>
<td>Install</td>
<td></td>
<td>To erect, connect up, and commission, complete with related accessories to the Engineer’s satisfaction and approval</td>
</tr>
<tr>
<td>Indicated, Shown, Noted</td>
<td></td>
<td>As indicated or shown on drawings</td>
</tr>
<tr>
<td>Project Specification</td>
<td></td>
<td>The Scope of Work (Part 3C) also serves as the Project Specification</td>
</tr>
<tr>
<td>Scope of Work</td>
<td></td>
<td>The document that specifies and describe the Works which are to be provided, and any other requirements and constraints relating to the manner in which the work is to be carried out</td>
</tr>
<tr>
<td>Site</td>
<td></td>
<td>The land and other places made available by the Employer, for the purpose of the Contract, on, under, over, in or through which the Works are to be executed</td>
</tr>
<tr>
<td>Similar or Equal</td>
<td></td>
<td>Equal or better in efficiency or performance and compatibility with the</td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td>ABBREVIATION / INTERPRETATION</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Specification</td>
<td>The complete Tender Document including the Scope of Work</td>
<td></td>
</tr>
<tr>
<td>Subcontractor</td>
<td>Sub-contractors appointed or utilised at the full responsibility of the Contractor</td>
<td></td>
</tr>
<tr>
<td>Successful Tenderer</td>
<td>The Tenderer appointed as Contractor</td>
<td></td>
</tr>
<tr>
<td>Supply</td>
<td>To purchase or procure and deliver complete with all necessary and additional specified accessories</td>
<td></td>
</tr>
<tr>
<td>Works</td>
<td>The Permanent Works together with such Temporary Works as may be necessary for the execution of the Works and including provisional cost items</td>
<td></td>
</tr>
<tr>
<td>Works Completion</td>
<td>The stage of the contract when the Certificate of Completion is issued</td>
<td></td>
</tr>
</tbody>
</table>
DESCRIPTION OF WORK

The energy efficiency project will mainly focus on the replacement of existing fluorescent luminaires with new LED lighting and occupancy sensing for additional savings. The DALI protocol will be used for the interfacing between components as well as the future integration for a possible light management system.

The areas of work include inter alia:

- Terminal Building (ACSA sections only and not external stakeholders);
- Maintenance Complex;
- Electrical Complex;
- Fire & Rescue Buildings;
- Terminal Building and offices;
- Upgrade of all old streetlights and parking lights (Staff parking area, Car Rental return parking area, Grass Area);
- Car rental section;
- Airside Main Gate complex;
- Guard House;
- CSP;
- Canopies;
- Walkways;
- Parking office.

CONTRACTOR’S RESPONSIBILITY

This document sets the general technical requirements for the Supply, Installation, Commissioning and Maintenance during the Defects Liability Period for the project, to be established by the Contractor after approval by the Engineer.

The definitions and guidelines, quality management and minimum codes and standards, but not limited to, forms part of this document.

It is the responsibility of the Contractor to deliver a complete and fully functional installation with the required commissioning, to the Employer and to the approval of the Engineer.

All materials supplied must carry a guarantee and be new. The installation must comply with this Specification and the Standardised Specifications (refer to Part C3.4: Applicable Standards). Workmanship must be of the best quality and be carried out in accordance with the Occupational Health and Safety (Act 85 of 1993).

The Specification, Drawings and Bill of Quantities show the general scope of the work and not all technical details are necessarily shown. The responsibility lies with the Contractor to provide for all equipment and materials in order to furnish a complete functional installation according to the outcomes of this specification.

Over and above the compulsory site inspection or clarification meeting, prospective Tenderers must visit the site and must make sure of the circumstances of the site and installation methods that will be required such as scaffolding, wiring, etc. No claims due to lack of knowledge in this regard will be entertained after appointment of the successful Tenderer.

Installation of luminaires will mainly take place after working hours and the tenderer must allow for this as part of his tender and must be included in rates offered. Rates must nevertheless be for a complete installation for the correct operation of the appliance.
ACSA’S OBJECTIVES

ACSA’s main objectives for the installation are as follows:

- To save on electricity drawn from the Grid and to reduce the carbon footprint of George Airport;
- To provide an energy efficient building that can showcase ACSA’s involvement and willingness to invest in new technology to reduce energy consumption;

STATUTORY REQUIREMENTS SPECIFICATIONS AND STANDARDS

The construction activities and final Works shall comply with the statutory requirements as amended to date and relevant guidelines and regulations, inter alia:

- Civil Aviation Act (Act 13 of 2009)
- Municipal bylaws and regulations.
- Standards and Specifications of the ACSA.
- Standards and Specifications of the Supply Authority.
- Applicable relevant standards and codes of practice, whether BS, IEC, NRS or SANS.

CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS

Should there be conflict between the Specifications and the Drawings then Parts shall be considered in the following order of priority:

1. Scope of Work (Project Specification)
2. Bill of Quantities
3. Drawings
4. Standard Technical Specifications

Should the Contractor note an inconsistency between various Parts and Sections of the Document, the Contractor shall be responsible to notify the Employer and obtaining clarification or instructions prior to ordering or installing equipment.

ITEMS REQUIRING SPECIAL ATTENTION

As the work progresses, the Contractor shall keep an accurate record of any variation or deviation from the original design and drawings submitted by the Contractor and approved by the Engineer. Marked up interim as built drawings shall be submitted in this regard with each payment claim. No payment will be certified by the project engineer if an interim as built drawing is not received.

Within 14 (fourteen) days after the Practical Completion of the project by the Contractor, a Certificate of Completion, test certificates and a set of co-ordinated “As Built” drawings must be handed over to the Employer.

It is important to note that the Works completion and start of the Defects Liability stage is not reached until such completion documentation is in the possession of the Employer.

Final Contract payment at Works Completion stage will not be certified unless the required completion documentation has been submitted to the Employer.

All test certificates of the various manufacturers/suppliers as well as site test certificates must be provided to the Engineer before equipment and or material will be accepted.

LABOUR

It is the intention of the Employer that the project, of which this Contract is a part, must make the maximum possible use of the local labour force. To this end the Contractor shall limit the use of non-local staff to key personnel only and is to employ local labour on this Contract. The Tenderer must state in the corresponding schedules details of non-local labour and supervisory staff that the Contractor intends using on this contract.
Note that labour from Labour Brokers is not allowed on the Contract.

TRAINING

The Contractor shall be responsible for the operation and maintenance training of Employer staff as indicated in the Bill of Quantities.

Allowance is also made for Enterprise Development under a PC Sum allowed for this purpose. The details shall be provided to the successful Contractor.

OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993)

The Contractor shall meet the health and safety requirements as stipulated in health and safety plan specification, Part C3.1 Generic Specifications: Occupational Health and Safety Specifications.

The Contractor shall be obliged to sign an Occupational Health and Safety Mandatory agreement as per the pro-forma agreement in Part C1.4.

It is confirmed that the Contractor will not act as agent for the Employer as contemplated in Section 4.5 of the Construction Regulations, promulgated in terms of the Occupational Health and Safety Act 85 of 1993. A suitably qualified competent person shall be appointed by the Employer to undertake the responsibilities of the Employer as laid down in these Regulations.

SAFETY PROCEDURE: NETWORK SWITCHING

Any switching of existing power supplies shall be arranged beforehand with the Responsible Person of the ACSA.

The Contractor shall not perform work on any portion of a network until such portions have been isolated, earthed and tested with the appropriate labelling.

The Contractor shall request a written "Work Permit" from the Responsible Person, which shall be completed in duplicate. The original "Work Permit" shall be retained by the Contractor until completion of his work. Upon completion of the work, the Contractor shall sign a statement to this effect. He shall hand this statement, as well as the used "Work Permit" to the Responsible Person, to enable the latter to re-energise the relevant portion/portions of the network.

SCHEDULES TO BE COMPLETED

All schedules included in this tender document including the Returnable Technical Schedules in Part C3.6 must be completed. Failure to complete the schedules shall disqualify the tenderer as it is imperative to know what equipment is part of the tenderer’s proposal.

LOCAL MANUFACTURING

Luminaire bodies must be manufactured in South Africa and the electronic components such as control gear, surge arrestors, etc. must also be locally wired. Luminaires not satisfying the above requirement must be submitted with proof or origin for tender purposes.
PART C3.2: TECHNICAL REQUIREMENTS

1. GENERAL CONSIDERATIONS FOR METHOD STATEMENT

   Factory acceptance tests;

   Construction Site requirements: list of machines / tools / equipment required at the Site.

   Cleaning of the building Site related to their Scope of Works and services only (including periodic cleaning during the Construction period and final cleaning);

   Provide working contracts and list of workers present on site on daily basis;

   Provide mobile WC facilities for their workers.

SITE DATA

Note that the following site data is for tender purposes only. It is the responsibility of the Contractor to verify the data for design purposes.

It is the Contractor’s responsibility to acquaint himself with the site conditions as well as the nature and strata of material on site. No additional claims will be entertained over and above the tender rates as submitted by the Contractor due to the lack of knowledge by the Contractor about the site conditions.

All the material and equipment being supplied in terms of this Contract shall be suitable for continuous operation at the total specified output or capacity under the following conditions:

<table>
<thead>
<tr>
<th>Project location and characteristics</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude (Site)</td>
<td>º</td>
<td>34°00'04.8&quot;S</td>
</tr>
<tr>
<td>Longitude (Site)</td>
<td>º</td>
<td>22°22'55.1&quot;E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicable site conditions</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum absolute temperature</td>
<td>ºC</td>
<td>40</td>
</tr>
<tr>
<td>Minimum absolute temperature</td>
<td>ºC</td>
<td>-5</td>
</tr>
<tr>
<td>Monthly average temp. of the hottest month</td>
<td>ºC</td>
<td>26</td>
</tr>
<tr>
<td>Corrosion conditions</td>
<td></td>
<td>Aggressive</td>
</tr>
<tr>
<td>Pollution conditions</td>
<td></td>
<td>Moderate</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>%</td>
<td>95% max, 5% min</td>
</tr>
<tr>
<td>Atmosphere</td>
<td></td>
<td>Salt laden, Dry in summer, Damp in winter</td>
</tr>
<tr>
<td>Monthly average rain</td>
<td>m</td>
<td>15</td>
</tr>
<tr>
<td>Prevailing wind direction</td>
<td></td>
<td>Summer - south easterly, Winter - north westerly</td>
</tr>
<tr>
<td>1:50 Year quantiles of annual maximum gusts</td>
<td>m/s</td>
<td>35-40</td>
</tr>
<tr>
<td>1:50 Year quantiles of annual maximum hourly mean wind speeds</td>
<td>m/s</td>
<td>20-25</td>
</tr>
<tr>
<td>Distance from sea</td>
<td>km</td>
<td>5.8</td>
</tr>
</tbody>
</table>
### Table: Environment and Electrical Network Status

<table>
<thead>
<tr>
<th>Environmental Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air dust maximum (not existent, low, medium, high, extremely high)</td>
<td>- Medium dusty</td>
</tr>
<tr>
<td>Soil average thermal resistivity</td>
<td>1.2 EC m/W may reach 3.0 EC m/W</td>
</tr>
<tr>
<td>Lightning stroke density</td>
<td>/km$^2$/year &lt;2</td>
</tr>
</tbody>
</table>

### Table: Electrical Network Status

<table>
<thead>
<tr>
<th>Electrical Network Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum short circuit current at the Substation</td>
<td>11 kV - 25 kA 400 V – 35 kA</td>
</tr>
<tr>
<td>System nominal voltage</td>
<td>11 / 0.400 / 0.230 kV</td>
</tr>
<tr>
<td>System highest voltage</td>
<td>12 / 0.45 / 0.26 kV</td>
</tr>
<tr>
<td>Contractual voltage</td>
<td>420 / 242 V</td>
</tr>
<tr>
<td>Frequency + possible variation</td>
<td>50 Hz ± 1%</td>
</tr>
<tr>
<td>Neutral grounding system</td>
<td>Solid</td>
</tr>
</tbody>
</table>

### GENERAL TECHNICAL REQUIREMENTS

All electronic components such as the drivers, occupancy sensors, emergency control gear etc. must be of the same manufacturer for compatibility reasons.

led modules

**LUX LEVEL MEASUREMENTS**

Lux levels shall be measured of the entire premises which include surrounding out buildings which forms part of ACSA.

Measurements must first be obtained for the entire existing installation and then again with commissioning of the new installation. The new installation lux measurements must be done as a room/area is completed to be able to rectify any non-conformances.

Recordings must be documented on a plan and in table form indicating all measurements and the location.

The accuracy of the measurements shall be done according to SANS 10114-1 for a 10% accuracy according to the relevant room index. The two-line method may also be used as per the Standard. The contractor must ensure that at commissioning that all the areas comply with SANS 10114-1.

The instrumentation used must be placed on a measuring structure and must be calibrated.

The instrument must also be able to measure LED wavelengths accurately. The optical filter used must correspond closely with the CIE 1931 curve. The certification and datasheet of instrument must be approved by the Engineer before measurements commence.
LUMINAIRE

General conditions

- Each luminaire must be accompanied by a corresponding mounting bracket;
- Electrical Certificate of Compliance (CoC) must be issued at practical completion;
- All luminaires shall be fitted with DALI protocol dimmable control gear to enable daylight harvesting and auto dimming of luminaires directly from DALI occupancy sensor outputs.
- All luminaires must be supplied with an integrated surge arrester;
- Labelling, where applicable, must be done in an engraved/punched manner and securely fitted to equipment such as distribution boards

Efficiency

- The ratio of luminous flux $L$ after the diffuser in lumens (warm lumens) to the applied electrical output $P$ in Watt (W) of light source plus control gear must be greater than 115 L/W
- The power factor must be better than 0.95 and overall efficiency better than 85%
- Colour temperature of LEDs will be 4000K unless otherwise indicated;
- The minimum beam angle of the LEDs must be $\geq 110^\circ$
- Required SABS marks to be indicated.
- Luminaires, associated equipment and control gear shall be new and unused and shall be supplied complete with lamps, control gear, diffusers, mounting brackets, etc. as applicable, and shall be delivered to site in a protective covering.
- The luminaire body shall be designed to accommodate the control gear, wiring, lamp holders and where applicable, the diffuser. It shall be possible to reach the control gear without disconnecting wiring or removing the luminaires
- All components, including screws, bolts and nuts utilized in the construction of the luminaire or fixing of its components, shall be corrosion-proof.
- Luminaires shall be completely wired internally. Conductors shall be protected with grommets where they pass through holes in the body.
- The minimum requirement for LEDs is 50 000-hour lifetime
- The colour rendering index (CRI) of the luminaire after the diffuser/lens must be $>75$ and $\leq 90$
- The LED Control gear must also have a minimum rating of L90/F10 and 5-year guarantee. The efficiency must be $\geq 95%$
- The nominal voltage of equipment shall be $\geq 195.5V \leq 264.5V$

Emergency lighting

All emergency lighting shall be self-contained units unless where space does not permit this then approval must be obtained from the engineer for remote emergency gear.

The type of self-contained emergency lighting must be of the maintained emergency mode so that normal lighting must be used for emergency illumination (Emergency lighting with permanent live as well as switched live).

Functionality

Compulsory requirements will be as per standards provided in this document for emergency lighting.

The following is required:
Self-charging battery charge indicator lamp
SANS Labelling
Self-testing for automatic maintenance
DALI interface for controlled testing and monitoring
Manual testing via test switch or IR remote or DALI
1, 2 or 3 h rated duration
Operating time selectable with plug (duration link)
Compatible with all dimmable and non-dimmable constant current
3-pole technology: 2-pole LED module changeover and delayed power switching for the LED Driver
Automatic shutdown of output if LED load is out of range
Constant power output
Maximum light output for all LED modules
Addressing function
Two-colour status display LED
Electronic multi-level charge system
Intermittent charge for NiMH batteries (pulse charge)
"Rest mode" function
Deep discharge protection
Short-circuit-proof battery connection
Polarity reversal protection for battery
Tests: Status of the battery, Status of the LED, Charge condition, Function test and Duration test

Batteries
NiCd or NiMH batteries;
One-hour emergency duration;
battery charging within 24 hours
High-temperature cells
D, Cs or LA cells
4-year design life
1-year guarantee min

Technical Data
Rated supply voltage: 220 – 240 V
Mains frequency: 50 / 60 Hz
LED module forward voltage range: 50 – 200 V
Time to light: < 0.25 s from detection of emergency event
Overvoltage protection: 320 V (for 1 h)
U-OUT: 250 V
Ambient temperature range: ta -25 ... + 55 °C
Max. casing temperature: tc 75 °C
Mains voltage changeover threshold: EN 60598-2-22
Type of protection: IP20

Markings
This information must appear on the luminaire itself:

Rated voltage
Details of correct replacement lamps
Rated ambient temperature (ta) and range of ambient temperatures
DC supply connections should be marked +/- or coloured red/black.
AC supply connections shall be marked by the symbol "~".
Display a clear warning notice that circuits must be regarded as live even when the mains power is off
Details of replaceable fuses or indicator lamps (if fitted)
Details of test facilities to simulate a power failure (if fitted)
A green dot, at least 5mm diameter, under the lamp holder of the emergency lamp in combined luminaires
Classification label must bear the information below:
Each symbol in the segments shall indicate a number, letter or point of no indication i.e., no symbol can be left blank.

The first segment indicates “Type”;
X = self-contained and
Z = centrally supplied.

The second segment indicates “Mode of operation”;
0 = non-maintained
1 = maintained
2 = combined non-maintained
3 = combined maintained
4 = compound non-maintained
5 = compound maintained
6 = satellite

The third segment indicates “Facilities”;
A = including test devices
B = including remote rest mode
C = including inhibiting mode
D = high-risk task area luminaire

The fourth segment indicates “Duration” for self-contained luminaires;
60 = one hour duration
180 = three hours duration

Marking on batteries (for self-contained luminaires)
Details of correct battery replacement type and rated voltage
Date of manufacture
Date of commissioning
Maximum case temperature (tc)

Luminaire types

All images are for illustration purposes only and do not refer to a specific manufacturer.

Type R1 – Recessed 600 x 600mm panel luminaire (High Wattage)

General and construction

Recessed 40w 600x600 2 Cell LED Luminaire complete with 0.6mm Mild steel 7 stage powder coated to between 60 and 80 micron;
Recessed diffuser to reduce glare;
Output of 4040 lumens after diffuser (≥ 5000 lumens at LED);
Total power consumption after power factor to be 40watts;
DALI Dimmable Driver;
2 Pole Male and Female Sockets including Strain Reliefs;

5 Amp Plug top and 3 Meter Cord set;
Bears the SABS safety mark;

Driver F10 - 100,000 Hours;
Power Supply = 220-240V 50-60Hz;
PF > 0.95;
Efficacy > 100 Lm/W.

LEDs

SELV module – the single module has a forward voltage < 60 V;
Terminals – 2 variants: 2 terminals for serial wiring; 4 terminals for parallel, serial
or robot wiring;
High colour rendering index CRI > 80;
Small colour tolerance (MacAdam 3);
Colour temperatures 4000 K;
Module dimension 24 x 280 mm and 24 x 560 mm (ZHAGA compliant);
Perfectly uniform light when several LED modules used together in a line;
Push terminals for quick and simple wiring of LED module to LED module;
Lifetime to be 50,000 hours L80 B10 rating;
Beam characteristic: 120°;
Ambient temperature range: -40 ... +65 °C;
Irated: 325 mA;
Imax: 500 mA;
Max. DC forward current: 600 mA;
Max. permissible LF current ripple: 660 mA;
Max. permissible peak current: 780 mA / max. 10 ms
Max. working voltage for insulation: 320 V;
Insulation test voltage: 1.64 kV;
CTI of the printed circuit board: ≥ 600;
ESD classification: Severity level 4;
Risk group (EN 62471:2008): RG1;
Classification acc. to IEC 62031: Built-in;
Type of protection: IP00;
Approval marks: ESD, UL, CE, ENEC, RoHs;
Standards: EN 62031, EN 62471, EN 61347-1, EN 61547, EN 55015.

LED Driver

General

Dimmable built-in Driver;
Constant current Driver;
Output current adjustable between 150 – 400 mA;
Max. output power 35 W;
Nominal life-time up to 100,000 h;
5-year guarantee;
Dimming range 1 to 100 %;
Type of protection IP20;

Interfaces

DALI Device Type 6;
DSI;
SwitchDIM with memory function;
Corridor function.

Functions

Adjustable output current (I-select resistor or DALI);
Power-up fading at AC;
Intelligent Temperature Guard (over temperature protection);
Short-circuit protection;
Overload protection;
Constant light output function;
Suitable for emergency escape lighting systems acc. to EN 50172.
Technical Data

Rated supply voltage: 220 – 240 V
AC voltage range: 198 – 264 V
DC voltage range: 176 – 280 V
Mains frequency: 0 / 50 / 60 Hz
Overvoltage protection: 320 V AC, 48 h
Typ. current (at 230 V, 50 Hz, full load): 171 – 183 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level): 38 – 40 mA
Leakage current (PE): < 0.24 mA
Max. input power: 41.8 W
Typ. efficiency (at 230 V, 50 Hz, full load): 87 – 88.5 %
λ (at 230 V, 50 Hz, full load): 0.99
Typ. power input on stand-by: 70 – 100 mW
Typ. input current in no-load operation: 22 mA
Typ. input power in no-load operation: 0.5 W
In-rush current (peak / duration): 17.6 A / 179 s
THD (at 230 V, 50 Hz, full load): < 10 %
Time to light (at 230 V, 50 Hz, full load): < 0.6 s
Time to light (DC mode): < 0.2 s
Switchover time (AC/DC): < 0.2 s
Turn off time (at 230 V, 50 Hz, full load): < 20 ms
Hold on time (at 230 V, 50 Hz, full load): < 14 ms
Output current tolerance: ± 3 %
Output LF current ripple (< 120 Hz): < 2 %
Max. peak output current: ≤ output current + 18 %
Max. output voltage (no-load voltage): 250 V
PWM frequency: 500 Hz
Dimming range: 1 – 100 %
Dimming range (without PWM): 35 – 100 %
Burst / surge peaks output side against PE: 1.2 kV
Approval marks: Short Circuit Proof, 110, EL, EAC, RCM, CE, ENEC, RoHs
Standards: EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, EN 62386-101, EN 62386-102, EN 62386-207

Type R1E – Recessed 600 x 600mm panel luminaire (Emergency High Wattage version)

Specification as per Luminaire Type R1 and emergency control gear.

Type R2 – Recessed 600 x 600mm panel luminaire (Low Wattage)

General and construction
Recessed 32w 600x600 2 Cell LED Luminaire complete with 0.6mm Mild steel 7 stage powder coated to between 60 and 80 micron; 
Output of 3310 lumens after diffuser; 
Colour Temperature to be 4000K 
Total power consumption after power factor to be 32 watts, 
DALI Dimmable Driver, 
2 Pole Male and Female Sockets including Strain Reliefs, 
Lifetime to be 50,000 hours L80 B10, 
5 Amp Plug to and 3 Meter Cord set

Type R2E – Recessed 600 x 600mm panel luminaire (Emergency Low Wattage version)

Specification as per Type R1 and R2 (precedence) but with emergency control gear:

Type L1 – LED Surface channel luminaire

Surface mounted Opal Diffused LED Channel Luminaire; 
0.6mm Mild steel 7 stage powder coated to between 60 and 80 micron; 
Colour Temperature to be 4000K; 
Total power consumption after power factor to be max 44 Watts; 
Lifetime to be 50,000 hours L80 B10 
Driver F10 - 100,000 Hours; 
Output of 5040 lumens after diffuser; 
Power Supply = 220-240V 50-60Hz; 
PF > 0.95; 
Efficacy > 114 lm/W; 
SABS safety mark; 
Variable output possible by setting different drive currents 
Integrated surge protection 
CRI > 80

Type L2 – LED Exterior surface channel luminaire

40W LED Moisture proof luminaire; 
SABS approved control gear;
SABS safety mark;
Built-in LED driver;
Durable polycarbonate body and diffuser;
Low Glare;
Variable output possible by setting different drive currents;
Integrated surge protection;
Stainless steel diffuser clips;
Life L80 B10 - 50,000 Hours;
Driver F10 - 100,000 Hours;
Efficacy > 128 lm/W;
Output of 5120 lumens after diffuser;
Supply = 220-240V 50-60Hz
PF>0.95
CRI > 80

Type H – Exterior High Bay luminaire

Surface mounted 102w Medium Beam LED High Bay;
SABS approved control gear;
SABS safety mark;
IP65 Rated;
0.6mm Mild steel 7 stage powder coated to between 60 and 80 micron;
Output of 11520 lumens after diffuser;
Colour Temperature to be 4000K;
Total power consumption after power factor to be 102watts;
Lifetime to be 50,000 hours L80 B10;
Driver F10 - 100,000 Hours;
Efficacy > 112 lm/W;
Supply = 220-240V 50-60Hz
PF>0.95
CRI > 80

Type B – Bulkhead luminaire

Round Bulkhead Surface Mounted max 18W LED;
Opal Diffuser;
Die Cast Aluminium;
SABS approved control gear;
SABS safety mark;
IP65 rating;
7 stage powder coated between 60 and 80 micron;
Stainless Steel Hexagonal Screws,
Helicoils,
UV Stabilised;
Colour Temperature to be 4000K;
Total power consumption after power factor to be 15w;
Lifetime to be 50,000 hours L80 B10;
Driver F10 - 100,000 Hours;
Output of 2600 lumens after diffuser;
Efficacy > 150 lm/W;
CRI > 80;

Type BE – Bulkhead luminaire (Emergency version)

Specification as per Type BE but with emergency control gear:

Type D – Downlight luminaire

Recessed 10w LED COB Aluminium Downlighter
Luminaire complete with Heat Sync and aluminium body
7 stage powder coated to between 60 and 80 micron,
Output greater than 900 lumens after diffuser,
Colour Temperature to be 3000K,
Total power consumption after power factor to be 12.8 watts,
Lifetime to be 50,000 hours L80 B10,

Type S – Street / Area Lighting

General specifications:

The luminaire will be installed on existing poles. Tenderer must investigate the mounting brackets and include in his price submission.

The luminaire consists of an LED engine, power supply and spigot compartment.

Easy installation of the LED engine is by means of a hinging action onto a spigot base casting, with incorporated levelling device. The replacement (upgrading and service) of the
LED unit and the driver/power supply shall be possible without removing the whole luminaire but by means of replacing only the optical/gear compartment by means of the hinging mechanism.

Spigot entries shall be designed to fit easily over the bracket pipe and shall be truly parallel to the fitting axis and shall comply with Table 1 of SANS 1088 as follows: For Type 2 luminaires (side entry): Nominal size 42 mm The luminaire shall be secured to the spigot by means of at least two stainless steel M8 grub screws, as specified in ISO 4762. This shall be done from the inside of the luminaire to minimise the risk of vandalism and theft. An additional safety screw, with a special coded screw head, shall protect the luminaire against pilferage.

LED light source of 38W and 24 LEDs. It is secured by stainless steel latches and an access screw.

The LED engine, consisting of the LED light source and the power supply, can be easily replaced or upgraded (Futureproof).

Minimum IP rating of the light compartment, including driver compartment: IP66.

Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs. The power supply is automatically disengaged when opening the luminaire. The luminaire housing is manufactured of LM6, marine grade aluminium (EN 1706 AC-44300).

Design life: In excess of 25 years

The protector shall be smooth, for easy cleaning, and shall be manufactured of tempered glass (IK08).

It shall be certified, in terms of IEC 60598, to operate at an ambient temperature of 35°C. The thermal design shall be particularly designed for African exterior conditions, i.e. high temperatures, high pollution, corrosion resistant.

It shall comply with the following standards:
IEC 55015 “Limits and methods of measurements of radio disturbance characteristics of electrical lighting and similar equipment”
IEC 5502 “Information technology equipment. Radio disturbance characteristics.”
IEC 61000-4-5 “Electromagnetic compatibility (EMC) - Surge immunity test”

The cooling fins shall be designed in such a manner to prevent the accumulation of dirt, thus ensuring the continuous effective cooling. The cooling rib height to width ratio may not exceed 0.7. Additionally, the top surface shall be curved in shape. Direct conduction & maximized surface for external heat exchange shall be provided.

Luminaire closure shall be by means of a single movement clip mechanism at the rear of the luminaire and secured by a tamper-proof screw to minimise theft and vandalism.

The control gear compartment shall be incorporated into the luminaire housing.

The Materials shall be of the following specifications:

Body Material – Marine Grade Aluminium (EN 1706 AC-44300)
Protector Material – High-impact clear glass

Electrical

Power supply

The power factor shall be rated at ≥0.95.
The power supply shall be removable and shall be suitable for operation with the specified rating of the lamp on a 198-265VAC 50Hz single phase system.
Operating temperatures shall be from -15deg to +60deg on the housing (case temperature).
Operating humidity shall be from 20% to 95%.
The control gear shall incorporate a thermal switch for protection when exceeding the case temperature.
The unit shall be EMC compliant to the EN55015 and EN61347-1 standard.
The unit shall provide the option to add a daylight sensor, on the low voltage side.
The unit shall be able to withstand surges up to 10kV/10kA by means of an external surge protection device mounted inside the gear compartment and shall be easily replaceable.

LEDS

The LED life expectancy shall be 60,000 hours at 90% lumen maintenance. (Documentary evidence from the LED manufacturer, by means of an appropriate datasheet, confirming the statistical correlation, shall be provided).

Use of high efficiency LED’s (> 90 lumens/watt: Absolute photometry) CRI > 70. Documentary evidence of compliance to this clause shall be submitted with the tender.

Colour temperature shall be neutral white (4 000K). A report from the LED vendor, for LED’s used in the luminaire, shall be submitted, which shall include the following documentary evidence:

i. LED drive current.
ii. LED manufacturer data that clearly correlates LED junction temperature and LED drive current to lumen maintenance.
iii. The LED datasheets, indicating the Byy, Lxx data, as provided by the LED manufacturer.
iv. Documentary evidence, confirming that the failure of one LED will not cause additional LED’s to fail.

<table>
<thead>
<tr>
<th>Overview</th>
<th>Lifetime Residual Flux @ tq 25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of LED’s</td>
<td>Neutral White (4000K)</td>
</tr>
<tr>
<td>Current: 500mA**</td>
<td>Nominal Flux (lm)*</td>
</tr>
<tr>
<td>Power Consumption (W)</td>
<td>38</td>
</tr>
</tbody>
</table>

Other

The PCB shall incorporate a temperature sensor which shall reduce the current to protect the LEDs at higher than rated ambient temperatures. The temperature sensor is not intended to switch off the LEDs at high temperatures.

The power supply connection must take place inside the luminaire. The luminaire shall automatically disconnect the supply to the power supply once the luminaire is opened.

Switching/Dimming control must be available in three different options:
(a) Downward facing daylight switch
(b) Pre-programmable stand-alone dimming
(c) Remote light management system

The nominal input voltage is between 198-265VAC (50Hz)
The electrical protection class is either I or II

PHOTOMETRIC REQUIREMENTS:

The tenderer shall submit the calculations, as per SANS 10098, for Group A or B roads. Detailed calculations, confirming the results, shall accompany the tender document.
The photometric data submitted shall be based on measurements undertaken by an internationally certified lighting laboratory.

Copies of the photometric report shall be submitted and shall contain the measuring matrix, with measurement points as defined by CIE 140, illustrating:

- The candela values, at an ambient temperature of 25°C.
- The description and photography of the luminaire tested.
- The supply voltage and LED currents during testing.

The calculation shall be based on the following criteria:
- LED lumen depreciation: 20%
- Maintenance factor: 0.9 (allowing for a 10% light loss due to dirt on the protector surface).

**Warranty**

Luminaire warranties include all components such as the driver, led module, surge arrestor, etc. as specified.

Any luminaire or component failing in the warranty period in terms of specified performance of IP rating must be replaced free of charge by the manufacturer;

All warranty periods shall commence from the date of practical completion.

The following is minimum warranty periods for all equipment unless otherwise indicated:

- LED Driver – 5 years and L90/F10 rating
- LEDs – 50,000 hours
- Lifetime of LEDs
  - \( \text{L80/B10} = 50,000 \text{ hrs} \times 0.90 \% \) of the LEDs will have a luminous flux of 80% (L80) of the initial luminous flux at 50,000 operating hours.

**DALI SYSTEM**

**General**

The DALI system must be expandable to a full light management system. The stand-alone DALI system without management software will be implemented as phase 1:

The following figure shows an overview of the required system:

![Diagram of DALI System](image)

**Definitions:**
- **DALI GC:** DALI group controller
- **DALI SC:** DALI scene controller
- **PCA EXCEL:** digital dimmable electronic control gear
Dali Power Supply

- The stand-alone system will require a power supply to power all sensors which must be limited to 54 devices on the DALI bus (maximum 64).
- The power supply must be of the surface mounted type
- A combined DALI interface module, RS232 and a power supply module on DIN rail will also be used depending on the site conditions. The rated current of the power supply is 240 mA. Via the RS232 interface it is possible to put the DALI system into operation and to set its parameters. During normal operation the interface can be used for service purposes. The RS232 interface is accessed via an RJ45 socket.
- A 5A single pole neutral Circuit breaker must be supplied to power all the electronics.

Interface

A DALI usb interface module is to be provided together with the required software to setup each DALI bus.

DALI Cabling

- DALI cabling shall be cabtyre type and 1.5mm2. Cables must be neatly fixed to the ceiling via connectors and supports.
- Special cable click in (not screwed) connectors suitable for the DALI system must be used for the DALI terminations. It will not be allowed to terminate two cables at any termination or connector point, typically 2 x 3 way connectors must be used to T-off to devices
- Enclosure
- A suitable enclosure to house 3 x DALI busses with power supplies and gateways must be provided.
- A network point and power supply will also be required for the enclosure.
- Wiring shall be neatly strapped inside trunking.

SWITCHGEAR

Miniature and Moulded Case Circuit Breakers

Miniature circuit breakers shall be to SABS 155 with fixed thermal or magnetic inverse time over current tripping and in addition with magnetic instantaneous tripping on excessive over currents or short circuit, of 250 Volt rating for single and double pole and 400 Volt rating for three pole and shall be of the ampere rating and class of breaking capacity specified or shown on drawings. Where not otherwise specified or shown on drawings the breaking capacity shall be Class C. The circuit breakers shall be similar or equal to CBi, Schneider or ABB and all other breakers to be approved in writing.

CABLE RETICULATION MANAGEMENT

The electrical contractor shall supply and install all cable trays and/or ladders as specified or as required by the cable routes including the necessary supports, clamps, hangers, fixing materials, bends, angles, junctions, reducers, T-pieces etc. All metal trays, powerskirting, trunking and other wireways shall be earthed and be bonded at all joints according to SANS 10142.

Metal Cable Trays

Metal cable trays shall be manufactured from perforated rolled steel which shall be hot dipped galvanised to SABS 763.

Accessories

Horizontal and vertical bends, T-junctions and cross connections shall be supplied by the Electrical Contractor. The dimensions of these connections shall correspond to the dimensions of the linear sections
to which they are connected. The radius of all bends shall be 1 m minimum. The inside dimensions of horizontal angles or connections shall be large enough to ensure that the allowable bending radius of the cables is not exceeded. Sharp angles shall be 450 mitred.

All the accessories shall be hot-dipped galvanised to SABS 763. Only accessories by the manufacturer shall be accepted.

Supports

Cable tray supports shall consist of two steel hanger rods of at least 8 mm in diameter, on both sides of the tray with a substantial steel cross-member on the underside of the tray and bolted to the rods. Alternatively, cable trays may be cantilevered from walls on suitable brackets.

The supports must be strong enough and fixed at distance which will prevent the cable tray from sagging more than 6 mm over a 2 metre distance.

Fixing to the Structure

Where installed on concrete or brick, the supports for cable trays and ladders shall be securely fixed by means of at least 2 heavy duty, expansion type anchor bolts. Cantilevered trays shall be supported by a minimum of two 6 mm diameter expansion bolts per support.

It is the responsibility of the Electrical Contractor to ensure that adequate fixing is provided since cable trays and ladders that work loose shall be rectified at his expense. The fixing shall consider site conditions that prevail during installation.

Where installed on vertical steelwork, cable trays and ladders shall be fixed by means of 6 mm diameter bolts and nuts.

On horizontal steelwork, use may alternatively be made of "HILTI" type fasteners.

Horizontal trays and ladders shall in general be installed 450 mm below slabs, ceilings, etc. to facilitate access during installation of cables.

Multiple runs shall be spaced at least 300 - mm apart unless a different spacing is specified in the Project Specification.

Metal trays and ladders shall be bonded to the earth bar of the switchboard to which the cables are connected. Additional bare copper stranded conductors or copper tape shall be bolted to the tray or ladder where the electrical continuity cannot be guaranteed. These additional conductors or tapes shall always be installed in outdoor applications and in coastal regions.

OCCUPANCY SENSORS

DALI Recessed low level multi sensor

General requirements

Sensors shall be adjustable via IR remote for lux and time settings.

Operation shall include the dimming of lights via ramping when enough natural light is present (Daylight harvesting) according to pre-set levels and also occupancy sensing to switch off lights and air-conditioning via DALI bus.
Sensor must be used as a stand-alone system (not software driven) but also be able to be integrated to future addressable light management system without using any adapters.

Sensor must be supplied via a DALI line

If no movement are detected the sensor dims to the “Absence value” parameter and remains at this value

Control control gear with DALI standard IEC 60929 (DALI V0) and IEC62386 (DALI V1).

Technical Requirements:

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power:</td>
<td>Supply via DALI cable</td>
</tr>
<tr>
<td>General</td>
<td>Operating temperature 0 ... +50 °C</td>
</tr>
<tr>
<td>Type of protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Mounting</td>
<td>Ceiling Recessed and Surface</td>
</tr>
</tbody>
</table>

Detection:

<table>
<thead>
<tr>
<th>Detection</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection angle</td>
<td>360 degrees</td>
</tr>
<tr>
<td>Detection Range @ 2.5m height</td>
<td>5m</td>
</tr>
<tr>
<td>Swivel design</td>
<td>15 degrees min.</td>
</tr>
<tr>
<td>Light measurement at sensor</td>
<td>10 – 650 lx</td>
</tr>
<tr>
<td>Infra-red remote controlable</td>
<td>5m min range</td>
</tr>
<tr>
<td>Light level recognition angle</td>
<td>Min 70 degrees</td>
</tr>
<tr>
<td>Motion/Presence detection angle</td>
<td>Min 90 degrees</td>
</tr>
<tr>
<td>Bright-out timeout</td>
<td>Up to 120 min</td>
</tr>
<tr>
<td>Bright-out threshold</td>
<td>100 – 300 %</td>
</tr>
<tr>
<td>Fade-in time</td>
<td>Up to 90 s</td>
</tr>
<tr>
<td>Run-on time</td>
<td>30 s – 60 min</td>
</tr>
<tr>
<td>Fade time</td>
<td>Up to 90 s</td>
</tr>
<tr>
<td>Switch-off delay</td>
<td>Up to 60 min</td>
</tr>
<tr>
<td>Fade-off time</td>
<td>Up to 90 s</td>
</tr>
</tbody>
</table>

DALI High Bay sensor

The high bay sensor will be used at double volume areas. The installation method must be confirmed by the contractor and if any adapter boxes are required it must be included in the tender price.

General requirements

For up to 10 DSI or DALI devices (max. 5 per output channel)
2 DALI/DSI output channels with adjustable negative offset from channel 2 to channel 1
Ambient light sensor with motion detector
Max. installation height 16 m
IP65 sensor head
Switch input for on/off switching and dimming
Can be remote controlled
Individual adjustment of the parameters with IR Programmer
5-year guarantee

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated supply voltage</td>
<td>220 – 240 V</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Power</td>
<td>2 W</td>
</tr>
<tr>
<td>Stand-by power</td>
<td>0.5 W</td>
</tr>
<tr>
<td>Momentary-action switch input for dimming</td>
<td>single</td>
</tr>
<tr>
<td>Digital control line</td>
<td>DSI/DALI 2</td>
</tr>
<tr>
<td>Control output (devices)</td>
<td>10 (extendable up to 120)</td>
</tr>
<tr>
<td>Max. output cable length at 1.5 mm²</td>
<td>100 m</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 ... +60 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-25 ... +70 °C</td>
</tr>
<tr>
<td>Type of protection controller</td>
<td>IP20</td>
</tr>
<tr>
<td>Type of protection sensor</td>
<td>IP65 ready</td>
</tr>
<tr>
<td>Max. casing temperature</td>
<td>tc 75 °C</td>
</tr>
<tr>
<td>Light detection angle</td>
<td>13°</td>
</tr>
<tr>
<td>Light measurement at the sensor head</td>
<td>1 – 500 lx</td>
</tr>
<tr>
<td>Motion detection angle high/low</td>
<td>72° / 60°</td>
</tr>
</tbody>
</table>

The following schematic shows the typical interface with DALI devices.

Remote settings
- infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control
- Setting the threshold control point (Set button)

SURGE ARRESTORS

Surge arrestors must be integrated into all luminaires with the following requirements:

- LED indicator
- integrated thermal fuse

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary overvoltage</td>
<td>(TOV)-LV: 443 V AC (5 sec.) / 443 V (120 min.)</td>
</tr>
<tr>
<td></td>
<td>(TOV)-MV/HV: 1200 V AC (200 msec.)</td>
</tr>
<tr>
<td>Isccr</td>
<td>4500 A</td>
</tr>
<tr>
<td>Screw terminals</td>
<td>0.75–2.5 mm²</td>
</tr>
<tr>
<td>Supply</td>
<td>100 V – 277 V, 50Hz</td>
</tr>
<tr>
<td>Max load current</td>
<td>16 A</td>
</tr>
<tr>
<td>Protection level L-N (V)</td>
<td>&lt; 1500 V</td>
</tr>
<tr>
<td>Protection level L-PE (V)</td>
<td>&lt; 1800 V</td>
</tr>
<tr>
<td>Ipe</td>
<td>1 μA</td>
</tr>
</tbody>
</table>
Max impulse voltage $U_{oc}$: $10,000 \text{ V}$
Discharge current (8/20 μs) $I_{n}$: at 5000 A min. 10 strikes;
Discharge current (8/20 μs) $I_{\text{max}}$: at 10,000 A min. 1 strike
Max permitted casing temp: -35 to 80 degrees Celsius
Fixation: M8x10

**ELECTRICAL CABLING AND WIRING**

Existing cable will be used for luminaire electrical circuits but for the DALI system flexible Cabyre will be installed in suspended ceilings. No joints will be allowed unless approved by the engineer.

Cabyre data cabling

Properties:

- SANS 1574
  - High conductivity bunched plain flexible copper conductors to SANS 1411 Part 1.
  - 2 Core insulated with general purpose flexible grade PVC to SANS 1411 Part 2.
  - Temperature Range: -10°C to 70°C
  - Normal Duty (ND) 300/500V

PVC Insulated Cables

The conductors shall be of high conductivity copper and the cable shall be of the PVC insulated and galvanised steel wire armoured type manufactured to SABS 150/1970 as amended. For general L.T. use, cables shall be 600/1000 volt rated

House Wire

- PVC insulated copper conductors shall be used exclusively and the quantity per conduit shall be as per SANS 10142.
- The conductors shall be of high conductivity annealed stranded copper and the cores may be shaped or circular.
- The insulation shall be general purpose PVC, 600/1000 V rated cable to SABS 150.
- All unarmoured conductors shall be installed in conduits, cable channels (trunking) or power skirting and shall under no circumstances be exposed. Cable channels and power skirting shall be of metal construction unless specifically approved to the contrary or specified in the Project Specification.
- Common wire ways will only be permitted for relatively light current-carrying conductors such as lighting and socket outlet circuits. Heavy current-carrying conductors such as feeders to distribution boards and large power points, must be installed in separate conduits or wire ways
- Unless otherwise specified in the Project Specification or indicated on the Drawings, the wiring of the installation shall be carried out in accordance with the SABS 0142 as amended to date.
- All switch and phase conductors shall be red, PVC insulated. Neutral conductors shall be black PVC insulated. All earth conductors shall be green PVC insulated.
- Wiring shall be executed according to the loop-in system and no joints shall be allowed inside the conduits or boxes.
- When conductors are drawn through conduit, care shall be taken that they are not kinked or twisted. Care shall also be taken that the conductors do not come into contact with materials or surfaces that may damage or otherwise adversely affect the durability of the conductor.
- A neutral conductor shall be installed to all three phase outlets intended for equipment connection, whether sockets or isolators, irrespective of whether the particular equipment
normally requires a neutral or not.

- Conductors installed in vertical wire ways shall be secured at intervals not exceeding 5 m to support the weight of the conductors. Clamps shall be provided in suitable draw boxes for this purpose.

- The insulation of conductors shall only be removed over the portion of the conductors that enter the terminals of switches, socket outlets or other equipment. When more than one conductor enters a terminal, the strands shall be securely twisted together. Under no circumstances shall strands be cut off.

- When earth continuity conductors are looped between terminals of equipment, the looped conductor ends shall be twisted together and then soldered or ferruled to ensure that earth continuity is maintained when the conductors are removed from a terminal.
PART C3.3: MANAGEMENT OF THE WORKS

1. PROGRAM AND KEY MILESTONES

It will be expected from the Electrical Contractor to work in close collaboration with ACSA personnel.

The Special Documentation Required, indicated in Part T2.2, Form C11, shall be submitted with the Tender

The contract Commencement Date is the date that the Form of Offer and Acceptance, Part C1.1 is signed. It is the intention of the Employer to make the appointment as soon as possible after the bid closing date.

The documentation required before commencement with Works are (Refer to Part C1.2 Part 1: contract Data Provided by the Employer, Clause 5):

   Health and Safety Plan within 14 days of the Commencement Date;

   The Contractor shall submit a program of works for approval by the Employer within 14 days of the Commencement Date.

   The Contractor shall submit a Performance Guarantee (refer to Part C1.3) within 14 days of the Commencement Date.

   Proof of Insurance within 14 days of the Commencement Date;

   The final Design Document and drawings shall be submitted within 28 days of the Commencement Date for Approval by the Engineer.

The Commencement of Works shall follow 14 days after approval of the final Design Document and formal instruction by the Engineer.

The required factory acceptance tests shall be clarified with the Engineer before delivery.

The Practical Completion Certificate shall only be issued following the successful completion of the Provisional Acceptance Tests in terms of the approved Project Inspection and Test Plan. The Project Inspection and Test Plan must be submitted with the tender in term of Form C11 included in Part T2: Returnable Schedules.

Defects documented in terms of the Practical Completion Certificate shall be corrected within 14 days of the date that the Practical Completion Certificate is issued;

Works Completion certification shall only be issued after the correction of all defects and after the plant is fully completed and compliant;

The Defects Liability Period is 12 months, starting on the date that the Works Completion Certificate is issued;

Functional, manufacturing and installation defects during Defects Liability Period shall be corrected by the Contractor free of cost for the Employer.

The Final Completion Certificate, following the Defects 12 months Liability Period, shall be issued by the Engineer starting on the date on which the Works are completed, and all defects corrected in accordance with the Contract. The Works shall not be considered as complete in all respects until a Final Approval Certificate has been delivered by the Engineer to the Employer and the Contractor

MATERIAL QUALITY SPECIFICATION

The Contractor shall ensure that all components and materials supplied are designed, manufactured and tested in accordance with the latest applicable IEC and SANS standards.

Equipment Products, Components and/or Accessories must conform to all applicable Product Safety Standards appropriate for the intended markets.

The Contractor shall ensure appropriate certification and independent testing has been carried out on any materials and products proposed.
The Contractor shall ensure materials and products used are suitable for the specified service conditions.

The Contractor shall ensure materials and products delivered to site bear the manufacturer’s name, brand name and any other data required to verify that their performance and specification complies with the requirements of this document and the Employer’s Project Specific Requirements.

All works, materials, parts, components etc. supplied shall be new and of best quality and shall comply with the relevant current specification of the South African Bureau of Standards or of the British Standards Institution (such specifications being hereafter referred to as SABS or BS) and shall bear the SABS or BS mark.

**PROJECT MEETINGS**

Regular meetings of a general shall be convened and chaired by the designated person as shown in the table below.

<table>
<thead>
<tr>
<th>Title and Purpose</th>
<th>Approximate Time &amp; Interval</th>
<th>Location</th>
<th>Chairperson</th>
<th>Required Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick-off Meeting</td>
<td>90 minutes</td>
<td>George Airport</td>
<td>Project Engineer</td>
<td>SCM</td>
</tr>
<tr>
<td>- To discuss implementation strategy and agree timelines</td>
<td>Once off</td>
<td></td>
<td></td>
<td>The Project Manager</td>
</tr>
<tr>
<td>- To discuss implementation strategy and agree timelines</td>
<td></td>
<td></td>
<td></td>
<td>Contractor</td>
</tr>
<tr>
<td>- To discuss implementation strategy and agree timelines</td>
<td></td>
<td></td>
<td></td>
<td>Project Engineer</td>
</tr>
<tr>
<td>Construction Progress</td>
<td>60 minutes</td>
<td>George Airport</td>
<td>The Contractor</td>
<td>Project Engineer</td>
</tr>
<tr>
<td>- To track progress as per approved programme</td>
<td>Biweekly</td>
<td></td>
<td></td>
<td>The Project Engineer</td>
</tr>
<tr>
<td>- To discuss claims related issues</td>
<td></td>
<td></td>
<td></td>
<td>The Contractor</td>
</tr>
<tr>
<td>- To discuss Health &amp; Safety performance</td>
<td></td>
<td></td>
<td></td>
<td>The Project Manager</td>
</tr>
<tr>
<td>Risk Reduction</td>
<td>60 minutes</td>
<td>George Airport</td>
<td>Project Manager / Engineer</td>
<td>The Project Manager</td>
</tr>
<tr>
<td>- To discuss means to mitigate identified risks that can have an impact on project execution</td>
<td>Biweekly</td>
<td></td>
<td></td>
<td>The Contractor</td>
</tr>
<tr>
<td>- To discuss means to mitigate identified risks that can have an impact on project execution</td>
<td></td>
<td></td>
<td></td>
<td>The Project Manager</td>
</tr>
<tr>
<td>Compensation Events</td>
<td>As and when required</td>
<td>George Airport</td>
<td>Project Manager / Engineer</td>
<td>The Project Engineer</td>
</tr>
<tr>
<td>- To discuss compensation events that the Contractor has submitted</td>
<td></td>
<td></td>
<td></td>
<td>The Contractor</td>
</tr>
<tr>
<td>- To discuss compensation events that the Contractor has submitted</td>
<td></td>
<td></td>
<td></td>
<td>The Project Manager</td>
</tr>
</tbody>
</table>

**SAMPLES**

Samples of all equipment are to be submitted for approval before any ordering or installation commence.

A sample room (office) shall be constructed to assess the contractor’s work and then only may work proceed to the rest of the project.

**CONTRACT PRICE ADJUSTMENT**

The tender calls for a fix price for the construction period offered in terms of the envisage program of the Employer. However, the Contractor shall submit the Tender Price Basis, the Contract Price Adjustment Schedule applicable as well as a list of Special Equipment influenced by the exchange rate (Refer to Form C9 in Part T2: Returnable Schedules).

**PROVISIONAL AND GENERAL ITEMS**

Details of the allowance for provisional and general items shall be as per the Bill of Quantities. Items not allowed for but required by the Contractor shall be added by the Contractor in die space allowed for this purpose in the Bill of Quantities.

Additional provisional and general items/cost will not be entertained after the appointment of the Contractor.

Site security and storage

The Contractor shall guard and/or provide ACSA approved security for the project *inter alia*:

- Equipment, material, tools and other items used in connection with the construction of the Plants;
The subcontract works;
Its employees and subcontractors to the extent required.

The Contractor shall provide secure and appropriate storage on the Site (or at nearby locations at the Contractor's cost) and properly identify all materials, supplies and equipment required for permanent and temporary Construction of the Plant.

Consumables and utilities - electricity, water, sewage and waste disposal services

The Contractor is responsible to provide a site office, a change room, a storage container and the required toilets in respect with the local regulations.

If the Contractor needs any other facility, it is the Contractor’s responsibility to bring its equipment on site at its own costs, and make sure it will be usable without interfering with the other activities on site.

The Contractor shall be responsible for removing of all waste materials and rubbish during construction and after completion of the project. Hazardous Items to be disposed of shall be done according to legislation to approved facilities such as the instance of Fluorescent lamps.

PC SUMS

PC Sums have been allowed for in the Bill of Quantities. The total of the amounts allowed for the various works have been transferred to the summary sheet and will form part of the total tender price. The Contractor shall indicate the mark-up on the PC Sums, if so required, in the space allowed for this in the BOQ.

Details of the works to be done under the PC Sums will be provided to the successful Contractor. Three quotes shall be required for works under the PC Sums.

The following items will be priced and done under the PC Sums allowed for the purpose:

- OHS ACT Agent;
- Enterprise development;
- Incentive for broad-based black empowerment;
- QOS Logger

DRAWINGS AND TECHNICAL DOCUMENTATION

The following documentation is included Volume 4 of the Document:

- BDE drawings;
- Project board details;

PROJECT BOARD

A standard “CESA” project board is required for the project and shall be allowed for by the Contractor under the Provisional and General items in the Bill of Quantities. Refer to Volume 4 for details of the required project board.

Project board to be erected within 4 weeks of the commencement of works.

ENVIRONMENT

The Environmental requirements are specified in Part C3.5: Generic Specifications.

Waste disposal facilities must be approved for the recycling of all fluorescent lamps. The National Environmental Management Waste Act must be complied with.

HEALTH AND SAFETY

Health and Safety requirements and procedures are specified in Part C3.5: Generic Specifications.
RECORDING OF WEATHER

The contractor shall provide a rain gauge and maximum/minimum thermometer. He shall erect them according to the requirements of the weather bureau. The contractor shall record and keep a record of the daily rainfall and maximum/minimum temperatures and supply the data to the Employer on a daily basis.

The cost of complying with these requirements is deemed to be covered by the tendered rates for the Contractor’s General Obligations under Provisional and General items.

QUALITY MANAGEMENT

The Employer expects the Contractor to engage in safety culture initiatives.

The Employer places emphasis on the provision of a comprehensive Quality Management System (QMS) for all phases of the Project. The Contractor shall develop and submit a Quality Management Plan (QMP) with the Tender (Part T2: Returnable Documents: Form C11). The QMP shall describe the project quality requirements.

The Contractor must appoint a designated individual to function as Project Quality Specialist within the Contractors organization, who will be responsible for the quality management of the work package, carried out. The Contractor Project Quality Specialist will report directly to the Employers Project Quality Manager for all Quality related activities within the project.

The Contractor shall submit a Project Inspection and Test Plan (ITP) with the Tender (Part T2: Returnable Documents: Form C11), for all equipment/services included in the Scope of Work which is in line with the requirements stipulated. The project ITP shall detail all elements of the equipment/services and shall itemize the required quality intervention levels for each of these components alongside the criticality rating of each of these ITP’s which shall be submitted to the Employer for review and inclusion of the Employers intervention points.

The Contractor shall indicate in the project ITP which items are of a proprietary nature where the level of certification is limited to standard documentation and certificates of conformity.

All equipment / material / components in terms of product realization shall be listed in accordance with the planning and Bill of Quantities and is to be regularly updated and supplied to the Employer.

The Contractor shall be responsible for all first level quality inspection activities. In keeping with Quality Management best practices and Employer risk management, the Employer shall undertake and execute all 2nd level inspections and related quality activities. All Third Party Statutory quality activities shall be performed by an approved inspection authority recognized in terms of applicable South African legislation and appointed by the Employer.

The Contractor shall incorporate these fundamentals in their procedures so as to demonstrate to the Employer the incorporation of such principles in the procedures, systems and training to create awareness and compliant behaviour / decisions to these fundamentals.

INSPECTION TESTING AND COMMISSIONING

The Project Inspection and Test Plan (ITP) to be submitted as part of the compulsory Returnable Schedules (Part T2: Returnable Documents: Form C11), shall comply with the minimum inspection, testing and commissioning requirement described in this Section.

This section describes the minimum requirements of inspections, tests and performance verification that the Contractor shall demonstrate during execution and operation of the project. These tests are defined under:

Tests before Installation;
Tests after Installation;
Tests on Completion; and
Tests after Completion;
Final commissioning.

At least 2 weeks prior to start of any tests, the Contractor shall provide to Employer and Employer’s Representative detailed information regarding test schedules, testing methodology and equipment to be used and the criteria of acceptance of each test types. Test methodologies and acceptance criteria shall be prepared according to general requirements defined in IEC 62446, IEC 60364-6 and according to the current best commissioning practice. The Employer and Employer’s Representative along with the Contractor shall agree on test methodology and acceptance criteria, prior running the test. The following information shall be submitted:
Test program and standards; 
Manpower and deployment schedule of the Contractor for performing the tests forms of test records and report; 
Description of instrumentation to be used, including accuracy, and calibration test results; 
Method of data recording and evaluation method and acceptance/rejection criteria.

The tests and commissioning shall include:

Occupancy sensors
DALI system
Lux levels

General Requirements

The Contractor shall adhere to the following requirements:

Factory Acceptance Tests

The Contractor shall allow FAT for the following:

All Locally Manufactured items;

Standards Applicable

Refer IEC 62337 Commissioning of Electrical, Instrumentation and Control systems.

Personnel and Facilities

Inspect, test, commission and perform all relevant tests on site to demonstrate compliance with the Contract, as built (design) documents and standards.

Provide facilities necessary to enable the inspection, testing, commissioning and performance testing of the Work to be satisfactorily completed including labour, equipment, materials, instruments, consumable materials, electrical power, fuel, lubricants, water, and such like.

Provide staff with the relevant skills and competence for the inspection, testing, commissioning, performance testing and witnessing required.

Provide a supervising commissioning technician that has a minimum of 2 years’ experience in the commissioning and performance testing of similar installations.

Be responsible for all Health & Safety requirements during commissioning. The Contractor shall provide a Safety Briefing for all personnel who will carry out or witness the tests and shall ensure that such personnel comply with all applicable Health & Safety procedures at all times during the tests. The Contractor shall cease any testing in the event that any unsafe conditions rise.

Provide the opportunity to the Employer and Employer’s representatives to witness all commissioning tests. The Employer shall provide reasonable and adequate notice to the Contractor that other parties have been invited to witness the tests and the Contractor shall provide all facilities and support that are reasonably required by The Employer for such parties to witness the tests.

Shall co-operate and co-ordinate with the Employer, Employer’s representatives and the Employer in a best way to ensure the commissioning activities are performed respecting all Employers’ requirement and not effecting the Employer’s normal site operation and maintenance.

Execute commissioning activities respecting all legal, environmental and administrative Requirements.
Co-operate with the Employer and with the supply authority (electricity provider to the Employer) for verification of their requirement during project installation, commissioning and operation.

Shall aim to execute all construction and commissioning activities at any time in the most diligent manner at highest level of professionalism and considering the best practice and in good workmanship.

**Instruments**

Provide any instruments or other equipment for the Employer to review the accuracy, quality and performance of the Work. Provide any assistance required by Employer in the use of instruments and measuring equipment.

Ensure that instruments used for survey work, checking, inspection, testing, commissioning and performance monitoring are correctly calibrated according to their relevant standards. The contractor shall submit the valid calibration certificates with method statements and test records.

Provide temporary communication equipment as necessary to enable the commissioning team to carry out their tasks safely and effectively. Ensure temporary communication equipment does not cause interference with equipment owned or operated by any other parties.

**Defects and Delays**

Submit without delay any record that indicates that any part of the Works inspected or tested does not comply with the Contract Documents along with a method statement for the proposed remedial works including measures to be taken to prevent any delay to the program.

Rectify any defects that become apparent during inspection, testing, commissioning and performance testing. Retest defective parts, and any associated interdependent systems, and demonstrate compliance with the Contract Documents.

**Test protocols and reports**

Provide the detailed test protocol to the Employer and the Employer’s representative, at least two (2) weeks before the commencement of any tests during commissioning. The Employer, Employer’s representative and the Contractor shall agree on test protocol before the commencement of any tests. The Test protocol shall include but not limited to:

- Definition of each test type and test methods;
- List of equipment to be used along with their specification and relevant certificates;
- Duration of each test;
- Test evaluation method and Acceptance/Rejection criteria.

Provide the report to the Employer and the Employer’s representative upon the successful completion of the tests during commissioning and issue of the Certificate of Practical Completion. The report shall include following but not limited to:

**Overview**

General Information:
- Company profiles.
Acceptance protocols:
- SANS 10142 certificates;
Luminaires:
- Data sheet;
- Certificates;
- Manual;
Cables and connectors:
- List of installed cables;
- data wire cable data sheets and certificates;
- Connector details
Plans and drawings:
Schematic and layout drawing;
Surge protection:
  Data sheet;
  Certificates;
  Manual;

**CONTRACTORS GUARANTEE ON PERFORMANCE AND AVAILABILITY**

The Contractor shall provide component warranty, guaranteed performance and plant availability values as specified in the Technical Schedules, Part C3.6 Item 17.

The complete Works and all the associated equipment shall be fully guaranteed against functional, suppliers and manufacturing defects for the 12-month Defects Liability Period, commencing from the date on which the Practical Completion Certificate has been issued by the Employer.

Should any item or any of its constituents fail as a result of construction or manufacturing defects within the abovementioned period the Contractor shall be responsible for locating and repairing the fault and testing and re-commissioning the unit/item at no cost to the Employer. Such component which has to be replaced or repaired shall then be guaranteed for an additional 12-month period from date of re-energizing.

**WARRANTIES**

The required minimum warranties are included in Part C3.6 Item 18 of the returnable technical schedules under each item.

**SPARES**

The following spares must be provided and handed over to the Employer at Practical Completion.

- Each type of luminaire x 3;
- Each type of Occupancy sensor x 3;
- DALI power supply and USB interface x 3.

**EXISTING INSTALLATION**

Care must be taken not to damage any existing ACSA property especially such as ceiling tiles. The contractor will be responsible for replacement of any damaged goods for his own account. Only new items will be accepted whether the existing item was old or new.

All ACSA assets leaving their premises must be signed out and indicated on an interim as built drawing.
## PART C3.4: APPLICABLE STANDARDS

All equipment and services supplied shall comply with the standards listed below. These standards are applicable to the Contract over and above the specific standards indicated in Part 2 & Part 3:

<table>
<thead>
<tr>
<th>STANDARD</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANS 9001</td>
<td>Quality management systems - Requirements</td>
</tr>
<tr>
<td>SANS 10142-1:2009</td>
<td>The wiring of premises Part 1: Low-voltage installations</td>
</tr>
<tr>
<td>SANS 475</td>
<td>Luminaires for interior lighting, street lighting and floodlighting - Performance requirements</td>
</tr>
<tr>
<td>SANS 10114-1</td>
<td>Interior lighting:</td>
</tr>
<tr>
<td>SANS 10114-2</td>
<td>Interior lighting:</td>
</tr>
<tr>
<td>SANS 1464-22</td>
<td>Safety of luminaires Part 22: Luminaires for emergency lighting</td>
</tr>
<tr>
<td>SANS 1662</td>
<td>Self-ballasted LED tubular lamps for general lighting services &gt; 50 V - Safety requirements</td>
</tr>
<tr>
<td>SANS 60529</td>
<td>Degrees of protection provided by enclosures (IP Code)</td>
</tr>
<tr>
<td>SANS 60598-1</td>
<td>Luminaires Part 1: General requirements and tests</td>
</tr>
<tr>
<td>SANS 60598-2-1</td>
<td>Luminaires Part 2: Particular requirements Section 1: Fixed general-purpose luminaires</td>
</tr>
<tr>
<td>SANS 60598-2-2</td>
<td>Luminaires Part 2-2: Particular requirements - Recessed luminaires</td>
</tr>
<tr>
<td>SANS 60838-2-2</td>
<td>Miscellaneous lamp holders Part 2-2: Particular requirements - Connectors for LED-modules</td>
</tr>
<tr>
<td>SANS 60969</td>
<td>Self-ballasted lamps for general lighting services - Performance requirements</td>
</tr>
<tr>
<td>SANS 61347</td>
<td>Lamp control gear Part 1: General and safety requirements</td>
</tr>
<tr>
<td>SANS 61347-2-11</td>
<td>Lamp control gear Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires</td>
</tr>
<tr>
<td>SANS 61547</td>
<td>Equipment for general lighting purposes - EMC immunity requirements</td>
</tr>
<tr>
<td>SANS 62031</td>
<td>LED modules for general lighting - Safety specifications</td>
</tr>
<tr>
<td>SANS 62034</td>
<td>Automatic test systems for battery powered emergency escape lighting</td>
</tr>
<tr>
<td>SANS 62384</td>
<td>DC or AC supplied electronic control gear for LED modules - Performance requirements</td>
</tr>
<tr>
<td>SANS 62442-3</td>
<td>Energy performance of lamp control gear Part 3: Control gear for halogen lamps and LED modules - Method of measurement to determine the efficiency of the control gear</td>
</tr>
<tr>
<td>SANS 62386-207</td>
<td>Digital addressable lighting interface Part 207: Particular requirements for control gear - LED modules (device type 6)</td>
</tr>
<tr>
<td>SANS 62504</td>
<td>General lighting - Light emitting diode (LED) products and related equipment - Terms and definitions</td>
</tr>
<tr>
<td>SANS 62560</td>
<td>Self-ballasted LED-lamps for general lighting services by voltage &gt; 50 V - Safety specification</td>
</tr>
<tr>
<td>SANS 62612</td>
<td>Self-ballasted LED lamps for general lighting services with supply voltages &gt; 50 V - Performance requirements</td>
</tr>
<tr>
<td>SATS 17576</td>
<td>Light-emitting diode products for interior lighting, street lighting and floodlighting - Performance requirements</td>
</tr>
</tbody>
</table>
C4: Site Information

C4.1: Information about the site at time of tender which may affect the work in this contract

1. Access limitations

Access into site will be restricted to permitted personnel through an ACSA permit system and as such all personnel who will forming part of staff that will be executing the works shall be issued with permits.

2. Ground conditions in areas affected by work in this contract

This is not applicable as all the works will be carried out on areas with existing plinths structures which does not require any excavations.

3. Hidden and other services within the site

There are no hidden services around the area where works will be performed.

4. Details of existing buildings / facilities which Contractor is required to work on

The areas of work include inter alia:

- Terminal Building (ACSA sections only and not external stakeholders);
- Maintenance Complex;
- Electrical Complex;
- Fire & Rescue Buildings;
- Terminal Building and offices;
- Upgrade of all old streetlights and parking lights (Staff parking area, Car Rental return parking area, Grass Area);
- Car rental section;
- Airside Main Gate complex;
- Guard House;
- CSP;
- Canopies;
- Walkways;
- Parking office.