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|  Eskom | Strategy | Engineering |
|---|----------|-------------|

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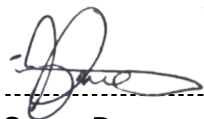
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## **1. INTRODUCTION**

This document establishes the technical evaluation strategy for the evaluation of tenders that will be received in response to the request to tender for civil work to be done for the Western Cape Asbestos Replacement Project. This strategy is a high level consideration of the key aspects that will give direction to the technical evaluation process. This strategy is applicable for scope of work that only includes the replacing and the installation of roof sheeting, gutters, downpipes, ceiling board, trench covers, asbestos conduits. This project will be held at various sites to be discussed in the section below.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document covers the technical evaluation strategy for the project was raised by the Grid because most of the substations were not complying with the Environmental Act. An inventory was conducted by the asset owner in order to be able to quantify the exact amount of asbestos existing on site. The list included buildings in terms of roof, ceiling, gutters, downpipes, ceiling board, trench covers, asbestos conduits which were identified as asbestos hence required to be replaced. The Western Cape Asbestos Removal project West Coast CLN includes the following substations:

- Aurora SS
- Juno SS

The aim of this document is to provide a technical evaluation strategy that shall be used for the technical evaluation of the tenders for the all the minor civil related work. Furthermore, it will ensure transparency in the evaluation process as per the requirements set out in the Tender Engineering Evaluation Procedure (240-48929482) [1].

#### **2.1.1 Purpose**

The purpose of this tender technical evaluation strategy is to define Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

#### **2.1.2 Applicability**

This document shall apply to the removal of asbestos and the installation of the items listed in section 2.1 related work.

## **2.2 NORMATIVE/INFORMATIVE REFERENCES**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

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### 2.2.1 Normative

[1] 240-48929482: Tender Engineering Evaluation Procedure

### 2.2.2 Informative

To assess whether the supplier/s submitted the required **technical documentation** as specified in the Enquiry referenced above, and that such quality documentation complies with the specified requirements.

## 2.3 DEFINITIONS

### 2.3.1 Classification

**Controlled Disclosure:** Controlled Disclosure to external parties (either enforced by law, or discretionary)

## 2.4 ABBREVIATIONS

**Table 1: List of Abbreviations**

| Abbreviation | Description                                       |
|--------------|---|
| CV           | Curriculum Vitae                                  |
| EDWL         | Engineering Design Work Lead                      |
| LDE          | Lead Discipline Engineer                          |
| N/A          | Not Applicable                                    |
| OHSA         | Occupational Health and Safety Act                |
| ORHVS        | Occupational Regulations for High Voltage Systems |
| SANS         | South African National Standards                  |
| TET          | Technical Evaluation Team                         |
| TST          | Transmission Standard                             |

## 2.5 ROLES AND RESPONSIBILITIES

**Engineering Manager:** All Engineering Managers throughout Eskom shall ensure that all staff, in their respective areas understand and adhere to this procedure.

**Engineering Design Work Lead (EDWL):** The EDWL is responsible to manage the execution and adherence to this procedure. Typically on New Build projects the EDWL role is fulfilled by the Lead Discipline Engineer (LDE) and on existing asset projects the EDWL role is fulfilled by the relevant System Engineer / Plant Engineer.

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**Technical Evaluation Team (TET) member:** The delegated engineers / technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy.

## **2.6 PROCESS FOR MONITORING**

N/A

## **2.7 RELATED/SUPPORTING DOCUMENTS**

N/A

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### 3. TENDER TECHNICAL EVALUATION STRATEGY

#### 3.1 TECHNICAL EVALUATION THRESHOLD

The scoring for each tender will be done as per the scoring table shown below. This table is as per the requirements of Tender Engineering Evaluation Procedure [1]. The minimum weighted average required for the tender to be considered for further evaluation is 70%. The team will perform risk analysis on tenders falling below the 70% threshold to substantiate the result and to authenticate the credibility of the evaluation process and results.

**Table 2: Evaluation Scoring Table**

| Score  | Percentage | Definition  |
|--|------------|---|
| 5  | 100        | <b>COMPLIANT</b> Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.  |
| 4  | 80         | <b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b><br>Meet technical requirement(s) with;<br>Acceptable technical risk(s) AND/OR;<br>Acceptable exceptions AND/OR;<br>Acceptable conditions. |
| 2  | 40         | <b>NON-COMPLIANT</b><br>Does not meet technical requirement(s) AND/OR;<br>Unacceptable technical risk(s) AND/OR;<br>Unacceptable exceptions AND/OR;<br>Unacceptable conditions.           |
| 0  | 0          | <b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>  |
| <b>Note 1:</b> The scoring table does not allow for scoring of 1 and 3.<br><b>Note 2:</b> Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy. |            |   |

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### 3.2 TET MEMBERS

**Table 3: TET Members**

| <b>TET number</b> | <b>TET Member Name</b> | <b>Designation</b>                            |
|-------------------|------------------------|---|
| TET 1             | Senzo Duma             | Civil Engineer – Substation civil engineering |

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### 3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

N/A

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA (A)

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

The tenderers will be evaluated using the criteria listed in Table 4 below. Each criterion is allocated a weight. An overall scoring will be given for each tenderer. The overall score is a sum total of the individual scores allocated for each criterion. Substation Engineering seeks to test the capabilities of the contractor based on table 4.

**Table 4: Evaluation Criteria**

|  | Qualitative Technical Criteria Description   | Reference to Technical Specification / Tender Returnable | Criteria Weighting (%) | Criteria Sub Weighting (%) |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
|--|--|--|------------------------|----------------------------|---|---------------|--|----------|--|-------------|--|--------------|--|--------------|---|------------|--|--|--|----------------------|--|--------------------------|--|--|----|--|
| 1.   | <div>Construction Program/technical Schedule:</div> <div>Applicable scope ticked</div> <table><tr><td>a) Foundations and/or Plinths</td><td></td></tr><tr><td>b) Trenches</td><td>x</td></tr><tr><td>c) Earthworks</td><td></td></tr><tr><td>d) Roads</td><td></td></tr><tr><td>e) Drainage</td><td></td></tr><tr><td>f) Yardstone</td><td></td></tr><tr><td>g) Buildings</td><td>x</td></tr><tr><td>h) Fencing</td><td></td></tr><tr><td>i) Steelwork<br/>i.1. Columns &amp; Beams<br/>i.2. Equipment support structure<br/>i.3. Floodlight mast</td><td></td></tr><tr><td>j) Security lighting</td><td></td></tr><tr><td>k) Earthmat &amp; earthtails</td><td></td></tr></table> | a) Foundations and/or Plinths                            |                        | b) Trenches                | x | c) Earthworks |  | d) Roads |  | e) Drainage |  | f) Yardstone |  | g) Buildings | x | h) Fencing |  | i) Steelwork<br>i.1. Columns & Beams<br>i.2. Equipment support structure<br>i.3. Floodlight mast |  | j) Security lighting |  | k) Earthmat & earthtails |  |  | 20 |  |
| a) Foundations and/or Plinths  |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| b) Trenches  | x  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| c) Earthworks  |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| d) Roads   |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| e) Drainage  |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| f) Yardstone   |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| g) Buildings   | x  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| h) Fencing   |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| i) Steelwork<br>i.1. Columns & Beams<br>i.2. Equipment support structure<br>i.3. Floodlight mast |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| j) Security lighting   |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |
| k) Earthmat & earthtails   |  |  |                        |                            |   |               |  |          |  |             |  |              |  |              |   |            |  |  |  |                      |  |                          |  |  |    |  |

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|---------------------------------------|---|--|--|-------------------------------|--|-------------|---|---------------|--|----------|--|-------------|--|--------------|--|--------------|---|------------|--|--------------|--|----------------------|--|----------------------------------|--|----------------------|--|----------------------|--|--------------------------|--|---------------------------------------|--|----------------------------|--|-------------------------------|--|-----------------------------------|--|--|----|--|
|                                       |   | <div>l) Substation electrical in buildings</div> <div>l.1. Lighting installation</div> <div>l.2. Ventilation installation</div> <div>l.3. Electrical installation (DB)</div> |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
|                                       | 1.1   | A program with the order in which main activities will be done   |  |                               |  | 60          |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
|                                       | 1.2   | Time durations of main activities from start to end  |  |                               |  | 40          |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| 2.                                    | <div>Construction Method Statements</div> <div>Tick Applicable</div> <table><tr><td>a) Foundations and/or Plinths</td><td></td></tr><tr><td>b) Trenches</td><td>x</td></tr><tr><td>c) Earthworks</td><td></td></tr><tr><td>d) Roads</td><td></td></tr><tr><td>e) Drainage</td><td></td></tr><tr><td>f) Yardstone</td><td></td></tr><tr><td>g) Buildings</td><td>x</td></tr><tr><td>h) Fencing</td><td></td></tr><tr><td>i) Steelwork</td><td></td></tr><tr><td>l.4. Columns &amp; Beams</td><td></td></tr><tr><td>l.5. Equipment support structure</td><td></td></tr><tr><td>l.6. Floodlight mast</td><td></td></tr><tr><td>j) Security lighting</td><td></td></tr><tr><td>k) Earthmat &amp; earthtails</td><td></td></tr><tr><td>l) Substation electrical in buildings</td><td></td></tr><tr><td>l.7. Lighting installation</td><td></td></tr><tr><td>l.8. Ventilation installation</td><td></td></tr><tr><td>l.9. Electrical installation (DB)</td><td></td></tr></table> |  |  | a) Foundations and/or Plinths |  | b) Trenches | x | c) Earthworks |  | d) Roads |  | e) Drainage |  | f) Yardstone |  | g) Buildings | x | h) Fencing |  | i) Steelwork |  | l.4. Columns & Beams |  | l.5. Equipment support structure |  | l.6. Floodlight mast |  | j) Security lighting |  | k) Earthmat & earthtails |  | l) Substation electrical in buildings |  | l.7. Lighting installation |  | l.8. Ventilation installation |  | l.9. Electrical installation (DB) |  |  | 30 |  |
| a) Foundations and/or Plinths         |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| b) Trenches                           | x   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| c) Earthworks                         |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| d) Roads                              |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| e) Drainage                           |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| f) Yardstone                          |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| g) Buildings                          | x   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| h) Fencing                            |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| i) Steelwork                          |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l.4. Columns & Beams                  |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l.5. Equipment support structure      |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l.6. Floodlight mast                  |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| j) Security lighting                  |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| k) Earthmat & earthtails              |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l) Substation electrical in buildings |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l.7. Lighting installation            |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l.8. Ventilation installation         |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |
| l.9. Electrical installation (DB)     |   |  |  |                               |  |             |   |               |  |          |  |             |  |              |  |              |   |            |  |              |  |                      |  |                                  |  |                      |  |                      |  |                          |  |                                       |  |                            |  |                               |  |                                   |  |  |    |  |

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|---|-----|---|--|----|-----|
|   |     | <p>Addition:</p> <ul style="list-style-type: none"> <li>• <u>Method of concrete mix</u><br/>The contractor to specify the method of concrete placement, batching on site or supply of ready mix. <ul style="list-style-type: none"> <li>○ If Batching – the contractor to provide the following: <ul style="list-style-type: none"> <li>- Concrete Mix design;</li> <li>- Aggregate to be used;</li> <li>- Location/supplier of aggregate; and</li> <li>- Mixing and testing to be included in the method statement.</li> </ul> </li> <li>○ If ready mix - If Ready mix – the contractor to provide the following: <ul style="list-style-type: none"> <li>- The supplier of Ready mix and the distance from site;</li> <li>- How results ( and what results)will be obtained from the supplier; and</li> <li>- How concrete will be tested on site .</li> </ul> </li> </ul> </li> <li>• <u>Method of steel erection: (where the crane is required)</u><br/>If the contractor specified that he/she will not subcontract the steel erection, he/she should specify there is a qualified rigger and crane operator to perform the work.<br/>If the contractor does not have a qualified rigger, he/she must specify that there will be a subcontractor company responsible for steelwork in this section or under list of subcontractor section.</li> </ul> |  |    |     |
|   | 2.1 | Relevant method statement with a description of how the main activities will be constructed   |  |    | 100 |
| 3 |     | List of Subcontractors  |  | 10 |     |
|   | 3.1 | Any company supplying material, plant and equipment that the contractor may   |  |    | 40  |

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|----|-----|--|--|-------------------|-----|
|    |     | hire. List company with the material, plant and equipment which they are supplying   |  |                   |     |
|    | 3.2 | Specify if there will be any company/contractor performing any construction work not done by the main contractor   |  |                   | 60  |
| 4. |     | List of Tools, Plant and Machinery   |  | 10                |     |
|    | 4.1 | All relevant earthing tools, plant and machinery to be used during construction owned by the contractor. (All hired to be included in the list of subcontractor) |  |                   | 100 |
| 5. |     | Relevant Previous Projects Completed   |  | 20                |     |
|    | 5.1 | List of relevant and comparable previous projects executed successfully  |  |                   | 60  |
|    | 5.2 | Including project scope, completion date and client contact person and details   |  |                   | 40  |
| 6. |     | CV's and Qualifications of Key Personnel   |  | 10                |     |
|    | 6.1 | CV's of Construction Manager/Project Manager, Site Manager/Site Agent and Site Supervisor  |  |                   | 40  |
|    | 6.2 | CV's to include academic qualifications and experience of key personnel detailing relevant project specific work experience                                      |  |                   | 30  |
|    | 6.3 | Proof/copies of certified academic qualifications  |  |                   | 30  |
|    |     |  |  | <b>TOTAL: 100</b> |     |

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### 3.5 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.5.1 Risks

**Table 5: Acceptable Technical Risks**

| <b>Risk</b> | <b>Description</b> |
|-------------|--------------------|
| 1.          | <b>None.</b>       |

**Table 6: Unacceptable Technical Risks**

| <b>Risk</b> | <b>Description</b>  |
|-------------|---|
| 1.          | <b>None.</b>  |
| 2.          | <b>Contractors who do not have the relevant experience.</b> |

#### 3.5.2 Exceptions / Conditions

**Table 7: Acceptable Technical Exceptions / Conditions**

| <b>Risk</b> | <b>Description</b> |
|-------------|--------------------|
| 1.          | <b>None.</b>       |

**Table 8: Unacceptable Technical Exceptions / Conditions**

| <b>Risk</b> | <b>Description</b>                                |
|-------------|---|
| 1.          | <b>Skill for civil construction not adequate.</b> |

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#### 4. AUTHORISATION

This document has been seen and accepted by:

| Name          | Designation                                   |
|---------------|---|
|               |   |
| Andile Maneli | Substation Engineering: Civil: Middle Manager |

#### 5. REVISIONS

| Date       | Rev. | Compiler   | Remarks     |
|------------|------|------------|-------------|
| 22/06/2023 | 1    | Senzo Duma | First issue |

#### 6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

N.A.

#### 7. ACKNOWLEDGEMENTS

N.A.

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