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| Drawing1 | Strategy | Engineering |

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| --- | --- | --- | --- | --- | --- |
| Title: | Tender technical evaluation for Supply and install plough insulated busbars at Eskom Majuba power station |  | Unique Identifier: | |  |
| Alternative Reference Number: | | N/A |
| Area of Applicability: | | Maintenance |
|  | Documentation Type: | | Strategy |
|  | Revision: | | 1 |
|  | Total Pages: | | 14 |
|  | Next Review Date: | | N/A |
|  | Disclosure Classification: | |  |
|  | Compiled by | Functional Responsibility | | Authorised by | | |
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# Introduction

This document forms part of the strategy that will outline the requirements of the Supply and install Electrical Busbars for the Plough at Majuba Power Station and also the qualifying technical criteria in alignment with the scope of works.

# Supporting Clauses

## Scope

**Background**

Ploughs are a very critical plant items (Level 2 plant) at Majuba Power Station, as they play a very critical role in the supply of coal to the units and shortage or failure of this items might result in multiple units trips, it is therefore imperative that the station has enough redundancy on this plant items at all given times as currently we only have two ploughs available out of four as per station design.

**Scope of Works**

Supply and install Electrical Equipment for the Reclaim Plough.

Supply, Install Insulated Busbar for C-7 type Brush gear and issue a Certificate of Compliance (COC)for Coal Plant Plough 10 and 30 Reclaim 11 at Majuba Power Station.

1. Specifications for the items to be supplied are as follows: Supply
2. BUSBAR: CURRENT: 200 A; MATERIAL: TWIN TUBULARBUSBAR SUPPORT; FORM: FLEXIBLE; TYPE: C-7 SERIES; Length: 2x1200M ; Voltage: 400V; SPECIFICATION: AKAPP; INSULATED BUSBAR FOR C-7 TYPE BRUSHGEAR ( type of collector trolley :CL7-7-100 number of poles :7 type trans. box : OG300-7 )
3. RUBBER SEALEANT: Length: 2 X1200M; MATERIAL: RUBBER SEALENT DUST PROTECTION

SPECIFICATION: SLCOR 5463; RUBBER SEALENT DUST PROTECTION 1 IN CLOSE AND OPEN FOR BARS BRUSHES IN BETWEEN, STRIP CHLOR/R WITH COR 2 x 1200M (L&R)For the Busbars.

1. BALANCING HANGER: TYPE: BALLANCING HANGERS SET OF 100 PC BN7-LRS/H, BALANCING AND TIGHTENED OF THE BARS RAIL FOR THE SMOOTH RUNNING OF THE PLOUGH MACHINERY. SERIAL NO. BNKEV 709 for the installation of the Busbars.
2. 6 x type of trolley : CL7-7-100 type of trolley : 3 collector trolleys and type of transition box : OG300-7 (C-7 type Brushgear).

NB : Kindy attach technical data sheets for all the above items to be supplied

1. The above 4 items must be installed at Majuba Power Station by the service provider and the service provider must be able to do the following: Install
2. Install the supplied electrical equipment’s in the hazardous location classified as zone 22 reclaim 11 at Majuba Power Station.
3. Test, commission the plant and issue the certificate of compliance for the zone 22 installation.
4. Provide at least 1 x Master Installation Electrician to inspect, test and issue the certificate of compliance of the installation done.
5. Provide at least 2 x Electricians to do the installation of the busbars in the zone 22 area.
6. Provide at least 4 x Semiskilled to assist on doing the installation in the zone 22 area.

NB: Kindly note that the total cost of the tender must includes everything needed to do the job at Majuba including safety requirements such as safety fil and Personal Protective Equipment’s.

**Preparation Works**

### Purpose

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

### Applicability

This document shall apply to Majuba Power station.

## Normative/Informative References

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

### Normative

1. 240-168966153 Generation Tender Technical Evaluation Procedure.

### Informative

Not Applicable

## Definitions

| Definition | Description |
| --- | --- |
| Maintenance | can be defined as**efforts taken to keep the condition and performance of a machine/equipment always like the condition and performance of the machine when it is still new**. Maintenance activities can basically be divided into two parts: planned maintenance activities and unplanned maintenance activities. |
| Tender | A tender refers to a written competitive offer, quotation, proposal made by the supplier in a prescribed or stipulated form in response to an invitation to tender/competitive enquire for provision of assets/goods or services and or the disposal thereof. |

### Classification

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

## Abbreviations

| Abbreviation | Description |
| --- | --- |
| IR | Insulation Resistance |
| OEM | Original Equipment Manufacturer |
| TET | Technical Evaluation Team |

## Roles and Responsibilities

As per 240-168966153 Generation Tender Technical Evaluation Procedure

## Process for monitoring

Not Applicable

## Related/Supporting Documents

Not Applicable

# Tender TECHNICAL EVALUATION Strategy

## Technical Evaluation Threshold

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

## TET members

Table 1: TET Members

|  |  |  |
| --- | --- | --- |
| **TET number** | **TET Member Name** | **Designation** |
| TET 1 | Mokete Mbele | Senior Technical Supervisor, Majuba PS EMD |
| TET 2 | Ben Mbuyane | Electrical Maintenance Manager, Majuba Power Station EMD |
| TET 3 | Marcus Ratlhallane | Maintenance Manager, Majuba Power Station |
| TET 4 |  |  |
| TET 5 |  |  |

## Criteria

### Mandatory Technical Evaluation Criteria

Table 2: Mandatory Technical Evaluation Criteria

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Eskom Logo | **EVALUATION CRITERIA- Technical Selection Criteria** for the Supply and install of the insulated busbars for coal plough at Majuba Power Station | | | |
| **Section A - MANDATORY REQUIREMENTS** | | **OBJECTIVE EVIDENCE TO BE PRODUCED** | **Criterion achieved**  **Yes/No** | **COMMENT / REMARK** |
| 1. Company to submit a portfolio of evidence of previous experience*.(where a size for size line stop was carried out i.e. main header pipe and connection for line stop equipment is of the same size)* | | The following is the compulsory information that is required:   * Nature of work done;   This shall be for all work done over the last 2 years. |  | **Applicable to all service providers** |
| 1. Method statement | | Detailed Method Statement with client interventions indicated at different milestones in relation to the scope of work execution. *The details of the method statement shall be specific to this Majuba project. A generic or general method statement will not be considered or accepted.* |  | **Applicable to all service providers** |
| 1. Tooling capacity | | The service provider to demonstrate capability of machinery/equipment to install busbars and relevant equipment. *This will include a list of tooling required for the work execution and a fitness for service tooling check list* |  | **Applicable to all service providers** |

### Qualitative Technical Evaluation Criteria for Part 1

Table 3: Qualitative Technical Evaluation Criteria for Part 1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Section B - QUALITATIVE CRITERIA** | |  |  |  | | | |  |
| **KPI - Criteria Evaluation Indicator** | **Weight (%)** | **Minimum Criteria Evaluation Requirements** | **Unit** | **0 Non-Responsive 0%**  **2 Non-Compliant 4.175%**  **4 Compliant with associated qualifications 12.125%**  **5 Compliant 16.7%** | | | | **TOTAL RATING** |
| 3.3.2.1 Company Profile | 30 | The contractor to submit proof in a form of a CV of the appointed/employed individuals that will be executing line stop.  CV as proof indicating the following individuals/disciplines:   1. Minimum 2 years installation experience (entity doing the work) 2. Min 3 years experience – Supervisor 3. Min 1 years experience - Technician/Tradesperson | Number | 0 | 2 | 4 | 5 |  |
| 3.3.2.2 Established safety systems | 20 | Companies must provide proof of the following:   1. Installation Procedure in Hazardous Locations 2. Safe for use inspection sheets for the equipment 3. PPE used during the work | Number | 0 | 2 | 4 | 5 |  |
|  |  |  |  |  |  |  |  |  |
| 3.3.2.3 Engineering Involvement | 30 | 1. Demonstrable Proof of Master Installation Electrician for Issuing of CoC in Hazardous Locations and at least one certificate issued by him. | Number | 0 | 2 | 4 | 5 |  |
| 3.3.2.5 Quality | 20 | The contractor to submit quality documentation that will demonstrate proficiency and capability to perform the work    1. Two Examples QCP’s from similar works. | Number | 0 | 2 | 4 | 5 |  |

### TET Member Responsibilities for Part 1

Table 4: TET Member Responsibilities for Part 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mandatory Criteria Number** | **TET 1** | **TET 2** | **TET 3** | **TET 4** | **TET 5** |
| Company to submit a portfolio of evidence of previous experience. | X | X | X | X | X |
| Method statement | X | X | X | X | X |
| Tooling capacity |  |  |  |  |  |
| **Qualitative Criteria Number** | **TET 1** | **TET 2** | **TET 3** | **TET 4** | **TET 5** |
| 3.3.2.1 Company Profile | X | X | X | X | X |
| 3.3.2.2 Company Processes | X | X | X | X | X |
| 3.3.2.3 Established safety systems | X | X | X | X | X |
| 3.3.2.4 Engineering Involvement | X | X | X | X | X |
| 3.3.2.5 Quality | X | X | X | X | X |
| 3.3.2.6 Welding Requirements | X | X | X | X | X |

## Foreseen Acceptable / Unacceptable Qualifications

### Risks

Table 5: Acceptable Technical Risks

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | Inadequate or less than required number of core team. |

Table 6: Unacceptable Technical Risks

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | Technically unacceptable or inadequate method statement |

### Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | None |

Table 8: Unacceptable Technical Exceptions / Conditions

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | None |

# Authorisation

This document has been seen and accepted by:

| Name | Designation | Signature |
| --- | --- | --- |
| Mokete Mbele | Senior Technical Supervisor |  |
| Ben Mbuyane | Electrical Maintenance Manager |  |
| Marcus Rathlallane | Maintenance Manager |  |

# Revisions

# Development team

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

* See section 4 above

# Acknowledgements

* Mokete Mbele
* Ben Mbuyane