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| Title: Camden Power Station Motor Maintenance and Refurbishment evaluation Strategy. | Unique Identifier: | 229-T2811 |
| | Alternative Reference Number: | N/A |
| | Area of Applicability: | Eskom Holdings SOC Ltd – Camden |
| | Documentation Type: | Strategy |
| | Revision: | 01 |
| | Total Pages: | 7 |
| | Next Review Date: | 07/2030 |
| | Disclosure Classification: | CONTROLLED DISCLOSURE |

1. INTRODUCTION

Camden Power Station is contract based in maintenance, electrical motors must be maintained to increase plant reliability as and when they fail, they must be repaired back to its original operating specification for the plant to operate effectively and efficiently. There are many repairers in the market, this strategy is Camden tailored and shall be used to acquire a rightful repairer to execute both maintenance and repair at Camden Power Station for all electrical motors.

1.1 SCOPE

The SOW specifies the requirement to be complied with when repairing, maintaining, and acquiring spares to be supplied by the Supplier and conditions thereof for acceptance.

1.1.1 Purpose

The purpose of this technical evaluation strategy is to define the mandatory and qualitative criteria the technical team will use to evaluate tendered repairers during technical evaluation process. The technical evaluation strategy serves as basis and guide during technical evaluation.

1.1.2 Applicability

This document shall apply to Camden Power Station Maintenance and Engineering departments at Camden Power Station.

1.2 NORMATIVE/INFORMATIVE REFERENCES

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

1.2.1 Normative

[1] ISO 9001 Quality Management Systems.

1.2.2 Informative

[1] 229 – T2812: Electric motor maintenance and refurbishment Scope of Work 5-year contract

1.2.3 Classification

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

1.3 ABBREVIATIONS

| Abbreviation | Description |
|--------------|-----------------------------------|
| SOW | Scope of Work |
| EMD | Electrical Maintenance Department |
| EED | Electrical Engineering Department |
| HV | Hogh Voltage |
| LV | Low Voltage |

1.4 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

1.5 PROCESS FOR MONITORING

The document shall be reviewed as and when required to be always in line with the best technological practices, Eskom's procurement policies and the Tender Technical Evaluation Procedure (240-48929482).

1.6 RELATED/SUPPORTING DOCUMENTS

Scope of work: Camden Power Station Electrical Motor Maintenance and refurbishment for 5 years, Doc No: **229 – T2812**

Table 1: The scoring method will consider the following qualitative evaluation criteria table

| Score | (%) | Definition |
|-------|---------------------|--|
| | 100 | COMPLIANT <ul style="list-style-type: none">• Meet technical requirement(s), AND• No foreseen technical risk(s) in meeting technical requirement |
| | 70 | COMPLIANT WITH ASSOTIATED QUALIFICATIONS Meet technical requirement(s) with: <ul style="list-style-type: none">• Acceptable technical risk(s), AND/OR• Acceptable exceptions, And/OR• Acceptable conditions. |
| | 69% And below | NON-COMPLIANT <ul style="list-style-type: none">• Does not meet technical requirement(s), AND/OR• Unacceptable technical risk(s), AND/OR• Unacceptable exceptions, AND/OR• Unacceptable conditions. |

Technical Evaluation Criteria

Mandatory Evaluation Criteria (gatekeepers) are a 'must meet' criteria. These criteria shall not be point scored but shall be assessed on a Yes/No basis if technical requirements are met. An assessment of 'No' against any mandatory/ gatekeeper criterion, shall technically disqualify the tenderer.

Mandatory/ gatekeeper

The successful tender should have the following key technical aspects: Where the mandatory criteria is not met, no further evaluation will be done, and the tenderer is deemed unqualified to execute the scope of work. There will be no further evaluation thereafter.

Table 2: Mandatory Technical Evaluation Criteria

| No. | Mandatory Technical Criteria Description | Reference to Technical Specification/Tender Returnable |
|-----|---|---|
| 1 | <p><u>Qualifications (on site)</u></p> <p>All qualifications of employees to be as stipulated as in the Service information, under People requirements</p> <ul style="list-style-type: none"> Supervisor (a minimum of Matric, N5/NQF5 plus trade test or equivalent, and 5 years' experience working on electrical motors with various bearings including white metal bearings. Fitters (a minimum of Matric, N3/NQF4 plus trade test or equivalent, 3 years' experience / service letter with 3 years as proof of working on electrical motors with various bearings including white metal bearings. | <p><u>Requirement:</u></p> <p>Provide a CV with valid certified certificates (three months valid from tender closing date)</p> |
| 2 | <p>Availability of workshop to repair HV, LV and DC motors.</p> <p>Workshop should be furnished with all Equipment to enable the SOW and repairs of motors</p> | <p><u>Requirement:</u></p> <p>Provide workshop lease agreement/ Memorandum of understanding/ proof of ownership which is current and not in arrears of agreement. It should cover the duration of the entire contract.</p> |
| 3. | <p>Tendered for complete SOW (for HV, LV, DC and Manpower)</p> <ul style="list-style-type: none"> Onsite maintenance Refurbishment of HV, LV, DC motors | <p><u>Requirement:</u></p> <p>Entire scope and lines must be tendered for</p> |
| 4. | <p>Emergency breakdown turnaround time to repair motors</p> <ul style="list-style-type: none"> LV motors HV motors DC motors | <p><u>Requirement:</u></p> <p>Provide three letters detailing the turnaround time to repair each type of motors.</p> <ul style="list-style-type: none"> LV motors HV motors |

| | | |
|--|--|---|
| | | <ul style="list-style-type: none"> • DC motors |
|--|--|---|

NB: If the answer is NO on gatekeeper that will mean the end of evaluation and considered fail.

Qualitative Criteria and Technical Returnables:

A minimum pass percentage is 70% and all written confirmation are technical returnable, must be returned with a technical file, only those who passed mandatory will be technically recommended and evaluated further.

A percentage score-card approach shall be used to evaluate the technical compliance of the tenders against the specifications listed below.

Table 3: Qualitative Technical Evaluation Criteria

| | % | |
|---|------------|--|
| 1. WORKSHOP | 34% | |
| Housekeeping and Demarcation | 3 | |
| Strip and assess area to accommodate GO repairs | 3 | |
| Overhead crane capacity (above 25 tons) | 2 | |
| Winding section capacity | 3 | |
| Workshop space capacity to accommodate GO repairs | 2 | |
| Dismantle and assembling procedure. | 2 | |
| VPI capacity | 2 | |
| Oven capacity | 2 | |
| Balancing machinery for MV | 2 | |
| Shaft NDT machine | 2 | |
| Test bay structural capacity | 3 | |
| Test bay voltage capacity (should accommodate 220v dc, 380V ac and 6.6kv) | 2 | |
| Calibration certificates on test equipment | 3 | |
| Load tests certificates for lifting equipment | 3 | |
| Comments | | |
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| 2. HV MOTORS | 24% | |
| Provide a letter of confirmation on the Turnaround time to repair HV motors in line with Motor repair Scope of work provided (HV motors under normal repair Conditions). This is for the Supplier to confirm if HE/SHE will meet the deadlines. Including timeframes to rewind a motor, dry-out a motor, and White -metal bearings replacement on a motor. | 8 | |
| Provide 2 x HV Motor Repair contracts executed in the past 10 years within Eskom or similar industries. | 8 | |
| References for winding repairs (a minimum of three orders with full data pack, for Eskom and other companies), refer to Refurbishment and Repair of Power Station Electric Motors Doc No: 240-89217674. | 8 | |
| Comments | | |
| | | |
| | | |
| 3. LV MOTORS | 24% | |
| Provide a letter of confirmation on the Turnaround time to repair LV motors in line with Motor repair Scope of work provided (DC, AC motors under normal repair duration). This is for the Supplier to confirm if HE/SHE will meet the deadlines. | 8 | |
| Provide 2 x LV & DC Motor Repair contracts executed in the past 10 years within Eskom or similar industries. | 8 | |
| References for winding repairs (a minimum of three orders with full data pack, for Eskom and other companies), refer to Refurbishment and Repair of Power Station Electric Motors Doc No: 240-89217674 | 8 | |
| Comments | | |
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| | | |
| 4. MANPOWER | 18% | |
| 4.1. Qualifications (workshop) | | |
| 4.1.1. Supervisor (a minimum of Matric, N6/NQF6 plus trade test or equivalent, and 5 years' experience on electrical and mechanical components of motor repairs) | 6 | |
| 4.1.2. Fitters (a minimum of Matric, N3/NQF4 plus trade test or equivalent, 3 years' experience/ service letter with 3 years as proof of working on electrical and mechanical components of motor repairs) | 6 | |
| 4.2.3. Rewinder (a minimum of Matric, N3/NQF4 plus armature winder Certificate and 5 years' experience rewinding electrical motors) | 6 | |
| Final Comments | | |
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Minimum Threshold value is 70%. Only technically suitable if total score is $\geq 70\%$. Should suppliers not meet the minimum threshold of 70%, Eskom reserves the right to consider suppliers that obtained at least 69%.