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

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| Title: | **Tender Technical Evaluation Strategy – Supply & Refurbishment of Common Plant Valves Spares at Camden Power Station For 36 Months** | Unique Identifier: | **229-T2137** |
| | | Alternative Reference Number: | **N/A** |
| | | Area of Applicability: | **Engineering** |
| | | Documentation Type: | **Strategy** |
| | | Revision: | **1** |
| | | Total Pages: | **14** |
| | | Next Review Date: | **N/A** |
| | | Disclosure Classification: | **CONTROLLED DISCLOSURE** |

| Compiled by | Functional Responsibility | Authorised by |
|---|---|---|
| …….. | …….. | …….. |
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| Date: 2022/09/21 | Date: 2022/09/21 | Date: 23/09/2022 |

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# TABLES

# 1. INTRODUCTION

Valves are essential part of the Auxiliary plant systems. In this document Auxiliary plant refers to the following plant areas: Water treatment plant, Hydrogen plant, Ash plant and effluent systems. The availability of spare valves is of paramount importance for effective plant maintenance. Common plant spares are required to ensure the availability, redundancy and reliability of the plant. It is essential that a 36 Months contract is establish on an as and when required basis in ensuring spares availability in order to improve the plant availability.

# 2. THIS REPORT WILL FOCUS ON THE EVALUATION OF SUPPORTING CLAUSES

## 2.1 SCOPE

This document covers the different aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation of the Supply & Refurbishment of Common Plant Valves Spares at Camden Power station enquiry. The team members are listed and appointed in this document along with their responsibilities. The document also describes the acceptable and unacceptable risks and qualifications and/or conditions.

Once the Technical Evaluation Strategy is authorised no changes will be made to the evaluation criteria without appropriate authorisation.

### 2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and Technical Evaluation Team (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 is applicable to the Camden Power Station Maintenance of Auxiliary Plant Systems enquiry.

## 2.2 NORMATIVE/INFORMATIVE REFERENCES

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

### 2.2.1 Normative

[1] 240-48929482: Tender Technical Evaluation Procedure

[2] 32-1034: Eskom Procurement Policy

[3] Contract Strategy

## 2.3 DEFINITIONS

### 2.3.1 Classification

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

### 2.4 ABBREVIATIONS

| Abbreviation | Description |
|---|---|
| CV | Curriculum Vitae |
| ECSA | Engineering Council of South Africa |
| TET | Technical Evaluation Team |
| | |

### 2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

### 2.6 PROCESS FOR MONITORING

N/A

### 2.7 RELATED/SUPPORTING DOCUMENTS

N/A

## 3. TENDER TECHNCIAL EVALAUTION STRATEGY

### 3.1 TECHNICAL EVALUATION THRESHOLD

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

**Table 1: Qualitative Evaluation Criteria Scoring Table**

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

### 3.2 TET MEMBERS

**Table 2: TET Members**

| TET number | TET Member Name | Designation |
|---|---|---|
| TET 1 | AL Khumalo | Auxiliary System Engineer – Camden |
| TET 2 | Natasha Naidu | Auxiliary System Engineer – Camden |
| TET 3 | Jeffrey Nkuna | Senior Supervisor Tech Maintenance - Camden |

## 3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

**Table 3: Mandatory Technical Evaluation Criteria**

| | Mandatory Technical Criteria Description | Reference to Technical Specification / Tender Returnable |
|---|---|---|
| 1. | CIDB level 8 ME/7ME PE | Certified copy of CIDB registration certificate to be submitted |

## 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

**Table 4: Qualitative Technical Evaluation Criteria**

| QUALITATIVE TECHNICAL CRITERIA DESCRIPTION | REFERENCE TO TECHNICAL SPECIFICATION / TENDER RETURNABLE | CRITERIA WEIGHTING (%) | SCORE SCALE | | | |
|---|---|---|---|---|---|---|
| | | | **FLOOR** | **KICK IN** | **AVERAGE** | **CEILING** |
| **CRITERIA 1: TECHNICAL** | | **40** | **0=0%** | **2=40%** | **4=80%** | **5=100%** |
| 1.1 QCP | Contractor to submit the following documents:<br>1.1.1 Quality Control Plan - Supply samples of QCP and check sheets specific for each valve type refurbishment & Overhaul for gate, butterfly & Gate valve. The QCP shall include hold points and Witness points as a minimum.<br>Note: Different QCP'S to be submitted for the each type of valve mentioned above. | 10 | QCP that is generic and not specific to each valve type | QCP very basic/vague but covers all types of valves, however no hold or witness points for some crucial activities | QCP's detailed and cover all types of valves but doesn't include all the stages of valve refurbishment<br>. | QCP very detailed and include all stages of refurbishment with Witness and Hold points in relevant sections. QCP submitted cover all types of valves mentioned in this section |
| 1.2 Description of workshop equipment required to complete the refurbishment scope of work | Contractor to submit the following documents:<br>1.2.1 Provide a controlled list/ register of own equipment and tools expected for the use of any repairing/ refurbishing of valves including the equipment identification/serial number. In case of outsourcing for a portion of scope, it must be stated in writing that the company is committed to execute the scope and will make use of a third party. Third Part signed confirmation to be submitted | 5 | Totally Deficient or Non-responsive | Submitted listed has crucial equipment or tools missing. | Detailed list provided but not sufficient to execute valve refurbishment scope. | List of tools and equipment submitted is comprehensive and cover every equipment required to execute the scope. |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1.3 Overhaul Procedure | Provide a valve overhauling procedure/ Method statement for the following valves<br>• Butterfly<br>• Gate<br>• Ball Valves | 15 | Procedures submitted doesn't cover all the types of valve requested and very basic. | Procedures submitted covers all vales types, however the procedure is not detailed. | Detailed Procedures submitted for all valves types. | Comprehensive overhaul procedures provided for all valves types. |
| 1.4 Valve Handling ,transportation and storage procedure | Provide a transportation, handling, storage and tagging and preservation procedure. | 10 | Procedure submitted is very basic and two or more of the following item are not covered<br>1.Transportation<br>2.Handling3.Storage & tagging<br>4.Preservation | Procedure submitted is very basic and one of the following is not covered<br>1.Transportation<br>2.Handling3.Storage & tagging<br>4.Preservation | Detailed Procedure submitted and covers valve a transportation, handling, storage and tagging and preservation | Comprehensive procedure submitted and covers valve transportation, handling, storage and tagging and preservation |

| QUALITATIVE TECHNICAL CRITERIA DESCRIPTION | REFERENCE TO TECHNICAL SPECIFICATION / TENDER RETURNABLE | CRITERIA WEIGHTING (%) | SCORE SCALE | | | |
|---|---|---|---|---|---|---|
| | | | **FLOOR** | **KICK IN** | **AVERAGE** | **CEILING** |
| **CRITERIA 2: INDUSTRY INVOLVEMENT** | | **20** | **0=0%** | **2=40%** | **4=80%** | **5=100%** |
| 2.1 Proof of experience in the Refurbishment of valves (in line with the scope above) for a minimum combined period of greater or equals to 24 months. | The following will strictly be considered as previous experience evidence and no exceptions will be made:<br>1. Signed contract and a Completion certificate<br>2. Purchase Orders and a completion Certificate<br>The above shall include:<br>• Description of the work performed<br>➢ Name of company where project was executed<br>➢ Project Description<br>➢ Construction period<br>**NB**. Reference list must be verifiable | 20 | Less than two acceptable references submitted. | Two References submitted. | Three relevant references submitted. | Four or more relevant references submitted. |

| QUALITATIVE TECHNICAL CRITERIA DESCRIPTION | REFERENCE TO TECHNICAL SPECIFICATION / TENDER RETURNABLE | CRITERIA WEIGHTING (%) | SCORE SCALE | | | |
|---|---|---|---|---|---|---|
| | | | **FLOOR** | **KICK IN** | **AVERAGE** | **CEILING** |
| **CRITERIA 3: WORKSHOP REQUIREMENT (SITE VISIT WILL BE COMPUSURORY FOR BIDDERS THAT SCORE 40% OR MORE ON THE OTHER SECTIONS)** | | **30** | **0=0%** | **2=40%** | **4=80%** | **5=100%** |
| 3.1 Ownership Repair and Refurbishment Equipment and Tools | Provide proof of ownership of Tools/equipment (machines) required to for valve refurbishment & pressure testing. The proof shall include the model number and serial number.<br>If certain work or equipment will be outsourced an agreement letter signed by both parties shall be submitted. | 20 | Totally Deficient or Non-responsive | Equipment owned is sufficient to execute valve refurbishment scope and the bidder owns 50% of the | Equipment owned is sufficient to execute valve refurbishment scope and the bidder owns 80% of the | Equipment owned is sufficient to execute valve refurbishment scope and the bidder owns 100% of the equipment |
| 3.2 Workshop Layout and Capacity Demonstration | Provide demonstrable evidence that the workshop facility is set up for the safe execution of the following activities:<br>➢ - Valve disassembly and cleaning<br>➢ - Valve assembly<br>➢ - Surface blast cleaning<br>➢ - Painting and coating<br>➢ - Segregation (quarantine) area for items subjected to non- conformance<br>➢ Valve Pressure testing station | 10 | Workshop setup allows safe and effective execution of less than 3 activities listed in this section | Workshop setup allows safe and effective execution of 3 activities listed in this section | Workshop setup allows safe and effective execution of 4 activities listed in this section | Workshop setup allow safe and effective execution of all activities listed in this section |

| QUALITATIVE TECHNICAL CRITERIA DESCRIPTION | REFERENCE TO TECHNICAL SPECIFICATION / TENDER RETURNABLE | CRITERIA WEIGHTING (%) | SCORE SCALE | | | |
|---|---|---|---|---|---|---|
| | | | **FLOOR** | **KICK IN** | **AVERAGE** | **CEILING** |
| **CRITERIA 4: ABILITY OF TENDERER TO EXECUTE SCOPE – MANPOWER** | | **10** | **0=0%** | **2=40%** | **4=80%** | **5=100%** |
| **4.1 Supervisors** To be in possession of Mechanical Fitter Trade Test plus 3 years' experience after obtaining trade. | Submit 2 detailed CVs with certified copies of the Qualifications (Trade Test) AND 3 years relevant experience with traceable references | 2 | Totally Deficient or Non-responsive | One (1) Supervisor provided with certified copy of qualification(s), CV indicating two (2) or more years of related experience. | Not an option | Meet requirements - Two (2) or more Supervisors provided with certified copy of qualification(s), CV indicating three (3) or more years of related experience. |
| **4.2 Quality Controller** (QC) – To be in possession of a N3 qualification, Mechanical Trade Test, QC Certification and minimum 3 years' experience | • Submit a detailed CV with certified copies of the Qualifications AND 3 years relevant experience with traceable references. | 4 | Totally Deficient or Non-responsive | One (1) or more QC Inspectors provided with certified copy of qualification(s), CV indicating one (1) or more years of experience. | One (1) or more QC Inspectors provided with certified copy of qualification(s) , CV indicating two (2) or more years of experience. | Meet requirements - one (1) or more QC Inspectors provided with certified copy of qualification(s), CV indicating three (3) or more years of experience. |
| **4.3 Artisan Fitter and Turner** To be in possession of N3 or Matric And Trade test And 3 years experience | Submit a detailed CV with certified copies of the Qualifications AND 3 years relevant experience with traceable references. | ~~—~~4 | Totally Deficient or Non-responsive | Not an option | One (1) Artisan Fitter and Turners provided with certified copy of qualification(s) , CV indicating two (2) or more years of experience. | Meet requirements – Two (2) or more Artisan Fitter and Turners provided with certified copy of qualification(s), CV indicating three (3) or more years of experience. |

## 3.5 TET MEMBER RESPONSIBILITIES

**Table 5: TET Member Responsibilities**

| **Mandatory Criteria Number** | **TET 1** | **TET 2** | **TET 3** |
|---|---|---|---|
| | X | X | X |
| **Qualitative Criteria Number** | **TET 1** | **TET 2** | **TET 3** |
| Section 1 - Section 4 | X | X | X |

X – Mandatory

## 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

### 3.6.1 Risks

**Table 6: Acceptable Technical Risks**

| Risk | Description |
|---|---|
| 1. | Failure to provide spares lists |

**Table 7: Unacceptable Technical Risks**

| Risk | Description |
|---|---|
| 1. | No information on adherence to Eskom Standards provided. |

### 3.6.2 Exceptions / Conditions

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

| Risk | Description |
|---|---|
| 1. | Professional Technologist is utilised and not Professional Engineer as deemed by ECSA |

**Table 9: Unacceptable Technical Exceptions / Conditions**

| Risk | Description |
|---|---|
| 1. | Failure to meet plant performance requirements in terms of reliability and availability |
| 2. | |

## 4. REVISIONS

| Date | Rev. | Compiler | Remarks |
|---|---|---|---|
| July 2022 | 1 | GN. Nkuna | Original Document |

## 5. DEVELOPMENT TEAM

- Jeffery Nkuna
- Gift Nkuna
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- Yamkela Mgwebi
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## 6. ACKNOWLEDGEMENTS

N/A