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

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| Title: | **Drakensberg and Ingula Fixed Hydrogen Detection Installation Tender Technical Evaluation Strategy** | Unique Identifier: | **556/39** |
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# TABLES

# 1. INTRODUCTION

This document outlines the tender technical evaluation strategy for the Fixed Hydrogen Detection Installation Contract for Drakensberg and Ingula Power Station.

The objective is to equip the battery rooms with means of hydrogen detection and alarming for the sites by installing fixed hydrogen detection systems in the battery rooms at Drakensberg and Ingula Power Station. The function of the hydrogen detection system is to detect and alert upon release of hydrogen and prevent an explosive atmosphere from being generated.

The scope entails the design, manufacturing, supply, delivery to site, installation, testing and commissioning of the complete, fully functional and fully integrated Fixed Hydrogen Detection System for Drakensberg and Ingula power station.

# 2. SUPPORTING CLAUSES

## 2.1 SCOPE

This document describes the procedure for the technical evaluation of Drakensberg and Ingula Fixed Hydrogen Detection Installation Contract Tenders and lists the team members that are responsible for the evaluation of the tenders.

### 2.1.1 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.

### 2.1.2 Applicability

This document applies to the Drakensberg and Ingula Fixed Hydrogen detection system tender.

## 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] 240-53716712: Tender Technical Evaluation Results Form Template

[3] 240-53716726: Tender Technical Evaluation Scoring Form Template

[4] 32-1033: Eskom Procurement and Supply Chain Management Policy

[5] 32-1034: Eskom Procurement and Supply Chain Management Procedure

### 2.2.2 Informative

[6] 556/37 Technical Specification for a Fixed Hydrogen Gas Detection System for Drakensberg and Ingula Power Station Battery Rooms

## 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 |
|---|---|
| A&A | Auxiliary & Ancillary |
| TET | Technical Evaluation Team |

## 2.5 ROLES AND RESPONSIBILITIES

**Engineering Design Work Lead (EDWL):** The EDWL is responsible to manage execution and adherence to the tender technical evaluation procedure.

**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.

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

## 2.6 PROCESS FOR MONITORING

Not Applicable.

## 2.7 RELATED/SUPPORTING DOCUMENTS

Refer to Section 2.2.

# 3. TENDER TECHNICAL EVALUATION STRATEGY

## 3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory Technical Evaluation Criteria (gatekeepers) are ‘must meet’ criteria. These criteria shall not be weighted, or point scored but shall be assessed on a Yes/No basis as to whether the criteria are met. An assessment of ‘No’ against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met.

The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%. The reason for the threshold of 80% is to ensure a full response on the qualitative criteria. Eskom reserve the right to lower the threshold to 70%.

The scoring table is as follows:

| Score | (%) |
|---|---|
| **5** | **100** |
| **4** | **80** |
| **2** | **40** |
| **0** | **0** |

### 3.2 TET MEMBERS

**Table 1: TET Members**

| TET number | TET Member Name | Designation |
|---|---|---|
| TET 1 | | |
| TET 2 | | |
| TET 3 | | |
| TET 4 | | |
| TET 5 | | |

## 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

**Table 2: Mandatory Technical Evaluation Criteria**

| | Mandatory Technical Criteria Description | Tender Returnable | Motivation for use of Criteria |
|---|---|---|---|
| 1. | None | | |

## 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

**Table 3: Qualitative Technical Evaluation Criteria**

| | Qualitative Technical Criteria Description | | Tender Returnable | Criteria Weighting (%) | Score | Criteria Sub Weighting (%) |
|---|---|---|---|---|---|---|
| **1.** | **EXPERIENCE** | | | **25%** | | |
| | 1.1 | Tenderer submits evidence of completed works that are equivalent to the works required in this Specification. Tenderer produces a track record of completed works consisting as a minimum either of maintenance, design, installation, testing or commissioning of gas detection systems. In case the Tenderer intends to subcontract or form a joint venture, a letter of agreement, together with a track record must be produced. | Tenderer submit project references. As a minimum the reference list must contain:<br>○ Contact Person(s)<br>○ Contact Number(s)<br>○ Project Description<br>○ Construction Period<br>○ Contract Value | 1-2 Projects | **5** | 100 |
| | | | | 0 Projects | **0** | |
| **2.** | **TECHNICAL SCHEDULE A&B COMPLIANCE** | | | **25%** | | |
| | 2.1 | Compliance to scope of work, intent to undertake full scope of work. | Completion of the Technical Schedule A&B. | Schedule A&B score: 80%-100% | **5** | 100 |
| | | | | Schedule A&B score: 70%-79% | **4** | |
| | | | | Schedule A&B score: 40%-69% | **2** | |
| | | | | Schedule A&B score: 0%-39% | **0** | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| **3.** | **EXECUTION DOCUMENTATION** | | | **25%** | | |
| | 3.1 | The execution plan to include the following:<br>Tenderer supplies project the following project artifacts | 1. **Method Statement** - includes but is not limited to; detail on how the works will be executed, design, installation, testing & commissioning of the hydrogen detection system, standards that will be complied with, integration detail, mechanical, electrical & C&I. CoC requirements & Certification Approvals.<br>2. **Installation Plans**<br>3. **Quality Control Plans** | All 3 items supplied | **5** | 100 |
| | | | | Number of items supplied: (equal to 2) | **4** | |
| | | | | Number of items supplied: (equal to 1) | **2** | |
| | | | | Number of items supplied: (no items supplied) | **0** | |
| **4.** | **DATA SHEETS** | | | **25%** | | |
| | 4.1 | Tenderer provides technical detail or data sheets of the following equipment:<br>1. Explosion-Proof Fixed Point Type Hydrogen Detector<br>2. Explosion-Proof Transmitter<br>3. Hydrogen Detection Controller<br>4. Audible and Visual Alarm Notification Devices<br>5. 24V Power Supply with Battery Back-up<br>6. PH 120 Fire Alarm Cabling<br>7. Fire Retardant (Blue Strip) Power Supply Cabling<br>8. Comms Interface Cabling<br>9. Ziton & Aritech I/O Modules | Tenderer supplies technical documentation or data sheets. | Datasheets of all 9 items supplied | **5** | 100 |
| | | | | Number of datasheets supplied: (Less than 9 but more or equal to 8) | **4** | |
| | | | | Number of datasheets supplied: (Less than 8 but more or equal to 4) | **2** | |
| | | | | Number of datasheets supplied: (Less than 4 datasheets supplied) | **0** | |
| | | | | **TOTAL: 100** | | |

## 3.5 TET MEMBER RESPONSIBILITIES

**Table 4: TET Member Responsibilities**

| Mandatory Criteria Number | TET 1 | TET 2 | TET 3 | TET 4 | TET 5 |
|---|---|---|---|---|---|
| 1. N/A | | | | | |
| **Qualitative Criteria Number** | **TET 1** | **TET 2** | **TET 3** | **TET 4** | **TET 5** |
| 1. | X | X | X | X | X |
| 2. | X | X | X | X | X |
| 3. | X | X | X | X | X |
| 4. | X | X | X | X | X |

**X – REQUIRED ATTENDANCE**

## 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

### 3.6.1 Risks

**Table 5: Acceptable Technical Risks**

| Risk | Description |
|---|---|
| 1. | |

**Table 6: Unacceptable Technical Risks**

| Risk | Description |
|---|---|
| 1. | **Technical specifications not met.** |
| 2. | **Interface requirements not met.** |

### 3.6.2 Exceptions / Conditions

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

| Risk | Description |
|---|---|
| 1. | **N/A** |

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

| Risk | Description |
|---|---|
| 1. | **N/A** |