

**Tender Evaluation****Engineering**

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1. INTRODUCTION

The Compressed air plant provides control air and service air to the power plant. Tutuka Power Station is equipped with seven compressors i.e., five centrifugal water-cooled electrical compressors and two water-cooled reciprocating diesel compressors. The station has been operating these compressors for more than 25 years, which is their recommended design life span. The three centrifugal compressors that are situated in the LPS compressor house are out of commission while the remaining two diesel compressors are operating at less than 50% of the original capacity. The station has been depending on the use of the hired Diesel compressors while the replacement project is underway.

The station requires the following to be satisfied:

- The hiring of four 1600 CFM (45m³/min) oil free compressor dryer pair
- Compressors must be air cooled, complete with connecting hoses.
- Increase the plant availability and reliability.

2. SUPPORTING CLAUSES

2.1 SCOPE

The description of the scope of this Works is as follows:

Supply, Install and commission:

1. Diesel compressor dryer pairs (x4).
2. Provide the interconnecting hose from the compressor to the dryer.
3. Provide the connecting hose from the dryers to the receiver and their accessories.
4. The Contractor to do weekly inspections and servicing of the compressors.
5. Any defective compressor must be replaced within 24 hrs at contractors cost.
6. Transport to and from site for collection and delivery of compressors & driers.

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 to evaluate all tenders received from the Service Provider(s) in response to the Enquiry.

2.1.2 Applicability

This document is applicable to Eskom Tutuka Power Station, Tender Evaluation Team for evaluating the tenders received from the Service Provider(s) in response to Supply, Install and commission of compressor with their associated driers and filters to provide control air quality as per the specifications.

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] ISO 9001 Quality Management Systems.
- [2] 240-48929482: Tender Technical Evaluation Procedure
- [3] 240-53716726 Technical Scoring Form
- [4] 240-53716712 Technical Evaluation Results

2.2.2 Informative; N/A

2.3 DEFINITIONS

2.3.1 Classification

- a. **Confidential:** the classification given to information that may be used by malicious/opposing/hostile elements to **harm** the objectives and functions of Eskom Holdings Limited.

2.4 ABBREVIATIONS

Abbreviation	Description
kPa	Kilo Pascal
OEM	Original Equipment Manufacturer
OPCR	Outside Plant Control Room
PS	Power Station
RAM	Reliability Availability Maintainability
SOW	Scope of Work
TET	Technical Evaluation Team

Table 1: Abbreviations

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

As per 240-48929482: Tender Technical Evaluation Procedure

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. TENDER TECHNICAL EVALUATION STRATEGY

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications or ability to perform the work. Tenderers need to have a minimum weighted score of 70% overall or more to technically qualify for further evaluation.

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3.1 TECHNICAL TENDER EVALUATION METHOD

The evaluation criteria will be based upon a two-step process

3.1.1 Mandatory Criteria Evaluation

All TET members as defined in the Tender Technical Evaluation Strategy (and specifically TET member responsibilities) shall independently evaluate each tender in terms of compliance to the defined Mandatory Evaluation Criteria. Each TET member shall provide an individual scoring form on the compliance / non-compliance of all tenderers' responses to the Mandatory Evaluation Criteria. Each TET member shall provide clear justification(s) for each Mandatory Criteria evaluated as non-compliant ('NO'). All individual scoring forms shall be evaluated by the EDWL to check for consistency in scoring of the Mandatory Evaluation Criteria. Should the EDWL find inconsistency in the scoring, an internal clarification meeting shall be conducted with all TET members (who performed the evaluation) in the presence of the Commercial Representative. This meeting shall aim to jointly establish which of the tenderers qualify for the next phase of Qualitative Technical Evaluation. In the case where no tenderer meets all Mandatory Evaluation Criteria this shall be formally escalated to the Commercial Representative who shall guide the subsequent process. All meeting minutes shall be recorded and distributed to the Commercial Representative and included in the Tender Technical Evaluation Report

3.1.2 Qualitative Criteria Evaluation

Tenderers that have met all the Mandatory Evaluation Criteria shall be evaluated against the Qualitative Criteria as defined in the Tender Technical Evaluation Strategy. The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements. A score shall be allocated as per Table 2: Qualitative Evaluation Criteria Scoring Table, for each technical qualitative criterion. Each TET member shall populate a Tender Technical Evaluation Scoring Form [2] for each tenderer. Note: Individual Qualitative Criteria scores shall only be finalised after all clarification sessions have been concluded.

Table 2: Qualitative Evaluation Criteria Scoring Table

Score	Points	Definition
5	100	COMPLIANT Meet technical requirement(s) AND. No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with. Acceptable technical risk(s) AND/OR. Acceptable exceptions AND/OR. Acceptable conditions.

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2	40	NON-COMPLIANT Does not meet technical requirement(s) AND/OR. Unacceptable technical risk(s) AND/OR. Unacceptable exceptions AND/OR. Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
Note 1: The scoring table does not allow for scoring of 1 and 3.		

The evaluation method will be based on similar projects done by the tenderers in the past. The tenderers will need to perform a complete detailed design (including supply bill of quantities), removal of existing system, supply and install new system as well as commission and test new system. A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

- a) Engineering: 100%

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

3.2 TECHNICAL EVALUATION THRESHOLD

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

3.1 TET MEMBERS

The following personnel will form part of the technical evaluation team. When the technical tender evaluation is done at least two participants of the technical evaluation team must be present.

Table 3: TET Members

TET Number	TET Member Name	Designation
TET 1	Chris Mhlongo	Senior Technician
TET 2	Mary Maunye	System Engineer
TET 3	Simo Dlamini	Maintenance Line Manager (Acting)

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Table 4: TET Member Responsibility

Section	TET 1	TET 2	TET 3
1.1	x	x	x
1.2	x	x	x
1.3	x	x	x

3.2 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 5: Evaluation Criteria

Gatekeepers	
No.	Mandatory Technical Criteria Description
1	Provide Reference that the OEM or Supplier has successfully supplied similar equipment to the Power Stations/ similar industries in the last 10 years.
NB: Tenders, which do not satisfy these gatekeepers, will not be given further consideration.	

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3.3 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 6: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Tender Returnable	Reference to the scope	Criteria Weighting (%)	Score	Sub Criteria Weighting (%)
	1.1	Submit data sheet for the compressor dryer pair it should include flow capacity, discharge pressure and the dew point.	Data sheet	Section 2.1	Compressor dryer pair data sheet submitted	5	40
					Either only the compressor data sheet or the dryer data is provided	2	
					No data sheet provided	0	
	1.2	Ability of the supplier to perform routine maintenance and service on the compressor and driers. a) Submit a procedure for conducting performance test (10) b) Submit signed off compressor diagnosis report (10) c) Submit signed off drier's diagnosis report (10)	Performance test procedure, compressor and dryer pair diagnosis reports.	Section 2.1	Performance test procedure, compressor and dryer pair diagnosis reports submitted	5	30
					Either only the Performance test procedure or compressor dryer pair diagnosis reports are provided	2	
					Neither Performance test procedure, compressor and dryer pair diagnosis reports are provided	0	
	1.3	Provide the Compressor dryer pair service plan	Service plan	Section 2.1	Provide the weekly service plan	5	30
					b) Provide a service plan (2 weekly inspection/service)	2	
					Provide a service plan (3 weekly inspection/service)	0	

3.4 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.4.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1.	Minor deviations or clarifications to the technical specification that will not prevent the system to perform

Table 8: Unacceptable Technical Risks

Risk	Description
1.	A compressor and or its auxiliaries that is of lower specification that required.
2.	Unreasonable response time.
3.	The contractor/ OEM has no related experience to the project.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Mary Maunye	System Engineer
Chris Mhlongo	Senior Technician
Simo Dlamini	Maintenance Line Manager (Acting)
Monyane Mokoena	Auxiliary Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2021	0	Mary Maunye	Complied the document.

6. DEVELOPMENT TEAM

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

Mary Maunye

Chris Mhlongo

7. ACKNOWLEDGEMENTS

N/A

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