



TET
Tender Technical
Evaluation Criteria

Matimba Power Station

TENDER NUMBER: E3257GXLPMAT

BID NAME: SUPPLY AND DELIVERY OF OIL FREE COMPRESSOR AND AIR DRYERS

CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES.....	3
2.1 SCOPE	3
2.1.1 Purpose	3
2.1.2 Applicability.....	3
2.2 NORMATIVE/INFORMATIVE REFERENCES.....	4
2.2.1 Normative	4
2.2.2 Informative.....	4
2.3 DEFINITIONS	4
2.3.1 Classification	4
2.4 ABBREVIATIONS.....	4
2.5 ROLES AND RESPONSIBILITIES.....	4
2.6 PROCESS FOR MONITORING	5
2.7 RELATED/SUPPORTING DOCUMENTS.....	5
3. TENDER TECHNICAL EVALUATION STRATEGY.....	5
3.1 TECHNICAL TENDER EVALUATION METHOD.....	5
3.1.1 Mandatory Criteria Evaluation	5
3.1.2 Qualitative Criteria Evaluation	5
3.26	5
3.3 TECHNICAL EVALUATION THRESHOLD	6
3.4 TET MEMBERS.....	ERROR! BOOKMARK NOT DEFINED.
3.5 MANDATORY TECHNICAL EVALUATION CRITERIA	7
3.6 DEVIATION TABLE.....	9
3.7 QUALITATIVE TECHNICAL EVALUATION CRITERIA.....	10
3.8 TET MEMBER RESPONSIBILITIES	14
3.9 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS.....	15
3.9.1 Risks.....	15
3.9.2 Exceptions / Conditions.....	16
4. AUTHORISATION	ERROR! BOOKMARK NOT DEFINED.
5. REVISIONS	ERROR! BOOKMARK NOT DEFINED.
6. DEVELOPMENT TEAM	ERROR! BOOKMARK NOT DEFINED.
7. ACKNOWLEDGEMENTS	ERROR! BOOKMARK NOT DEFINED.

TABLES

Table 1: Qualitative Evaluation Criteria Scoring Table	6
Table 2: TET Members	Error! Bookmark not defined.
Table 3: Mandatory Technical Evaluation Criteria.....	7
Table 4: Deviation table	9
Table 5: Scoring Method for Qualitative Technical Evaluation Criteria	10
Table 6: Qualitative Technical Evaluation Criteria.....	11
Table 7: TET Member Responsibilities.....	14
Table 8: Acceptable Technical Risks.....	15
Table 9: Unacceptable Technical Risks	15
Table 10: Acceptable Technical Exceptions / Conditions.....	16
Table 11: Unacceptable Technical Exceptions / Conditions	16

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1. INTRODUCTION

This document describes how the tenders received for the compressor to be bought as spare for Matimba Power Station and will be technically evaluated and scored. The team members are listed and

appointed in this document. The document also describes the acceptable and unacceptable risks, qualifications, and conditions.

The Compressed air plant provides control air and service air to the entire power plant. Matimba Power Station is equipped with five reciprocating compressors currently, two diesel driven and three electrical driven. All compressors are water cooled using the north aux cooling water. The station has been operating these compressors for more than 35 years, which is over their recommended design life span. The efficiency of the compressors has deteriorated over the years due to wear and tear, and this leads inadequate supply of compressed air to the station. Services and parts are difficult to obtain as the compressors is obsolete. There is a few MUT risks in the compressor configuration, from cooling water supply to electrical supply that must also be addressed in the upgrade.

Most of the compressor spares are obsolete and difficult to source. The OEM has informed Matimba that the compressors are obsolete but will continue to support the repairs and/or refurbishments whilst they are in operation. Currently there is no redundancy that allows maintenance to be done on the electric compressors. The reliability of the compressed air system is continuously deteriorating, and the system is operating at a low air quality.

To address the obsolete compressors and MUT risks the station requires the following to be satisfied:

- Obtain a portable spare compressor and dryer for use during plant maintenance.

2. SUPPORTING CLAUSES

2.1 SCOPE

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

Supply and deliver of:

- a. Portable compressor and dryer
- b. Provide 56m³/hr dry air at -40degreesC.
- c. ISO 8573.1:2010 / Class 2 before and after Filter (0,1 micron)

2.1.1 Purpose

The purpose of this document is to define the tender returnable, mandatory, and qualitative evaluation criteria. The Purpose is also to appoint the Technical Evaluation Team (TET) members. and responsibilities for the technical evaluation. To define the tender returnable, Mandatory criteria and Qualitative evaluation criteria.

2.1.2 Applicability

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

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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] ISO 9001 Quality Management Systems.
- [1] 240-168966153: Generation Tender Technical Evaluation Procedure
- [1] 240-53716726 Technical Scoring Form
- [1] 240-53716712 Technical Evaluation Results

2.2.2 Informative

- [1] RT/SCA/004 - Matimba Power Station compressor replacement and upgrade technical specification
- [1] PG/SCA/003 - Compressor replacement and upgrade engineering management plan

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
N/A	Not Applicable
kPa	Kilo Pascal
OEM	Original Equipment Manufacturer
TET	Technical Evaluation Team
C&I	Control and Instrumentation
QCP	Quality Control Plan
EDWL	Engineering Design Work Lead
EDL	Engineering Design Lead
TS	Technical Specification

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation

Engineering Manager: The Engineering Manager shall ensure that all staff, in their respective areas understand and adhere to this procedure.

Engineering Design Work Lead (EDWL): The EDWL is responsible to manage the execution and adherence to this procedure. The EDWL compiles the technical evaluation reports with input from respective TET members.

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

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Technical Evaluation Strategy. Furthermore, the TET compiles a report detailing the findings of the evaluation for the respective tenders on the allocated area of responsibility as highlighted in Table 5; this is mandatory responsibility for each TET member. The report should also highlight major areas of compliance and non-compliance, risks, points to be considered for negotiations etc. in accordance with the “240-48929482: Tender Technical Evaluation Procedure”. Where possible, one consolidated report will be acceptable per functional area, however the report should be supported by the respective TET member score sheets.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

Refer to section 2.2

3. TENDER TECHNICAL EVALUATION STRATEGY

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 for each tenderer. Note: Individual Qualitative Criteria scores shall only be finalised after all clarification sessions have been concluded.

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Table 1: 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.
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 80% overall or more to technically qualify for further evaluation.

The technical criteria weighting is 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%.

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Works Information and Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	The supplier shall provide a verifiable reference list of at least 3 compressor systems supplied. As a minimum this reference list shall contain the following information for past supplier: - Where the compressor power exceeds 200 kW (single compressor) - Where the compressor system train installed with a total air delivery that exceeds 60Nm³/min and 600kPa - Number of compressor systems for each contract, client/customer, or country, - Completion certificate or contract of the project The list should contain contactable numbers and email addresses.	Delivery notes that signed by the customer.	The supplier needs to provide proof that there is experience in completing a potable compressor delivery.
2.	Vessel designs according to ASME8. Proof of compliance with ASME standards	Provide certifications or evidence of compliance with ASME standards.	Vessels must be designed as per ASME standard to be registered and tested. The vessels must be designed as per code by law.

Tender Technical Evaluation Criteria: Supply and Delivery of Oil Free Compressor and Air Dryers

8 of 16

3.	The Supplier provides confirmation in writing from the OEM or authorised dealer. Provide letter of agreement with OEM	Letter stating OEM agreement	OEM services and parts must be obtainable for the supplied equipment
4.	Compressor and equipment compatible with Engen lubrication, oil, and grease.	Confirmation of lubrication specifications compatibility for using Engen oils and grease.	All Eskom sites uses Engen oil.
NB: Tenders, which do not satisfy these gatekeepers, will not be given further consideration.			

The contractor shall complete the following deviation table. The contractor shall list any deviations to the project for each section. This shall be used to determine if there are acceptable or unacceptable risks based on the tendered proposal.

Table 3: Deviation table

[illegible]

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Scoring Method for Qualitative Technical Evaluation Criteria

Score	%	Definition
5	100	COMPLIANT Meet technical requirement(s) AND No foreseen technical risk(s) in meeting technical requirement(s).
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with: - Acceptable technical risk(s) AND/OR - Acceptable exceptions AND/OR - Acceptable conditions.
2	40	NON-COMPLIANT Does not meet technical requirement(s) with: - Unacceptable technical risk(s) AND/OR - Unacceptable exceptions AND/OR - Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE

Table 5: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Tender Returnable	Criteria Weighting (%)	Score	Criteria Sub Weighting (%)
1. General			30%		
1.1	Provide proof from the OEM that the Equipment spare parts and services are supported locally. Including guarantees that all components and consumables are available in South Africa for at least 20 years after delivery.	Letter from the EOM stating Equipment and spare parts is supported locally.	Proof from OEM for spares and services support for 20 years submitted	5	50%
			Proof from OEM for spares support for 20years, and services support for more than 10 years submitted	4	
			Proof from OEM for spares and services support for more than 10 years submitted	2	
			No proof from OEM for spares support submitted, or less than 10 years support.	0	
1.2	Indicate if maintenance and operating manuals will be provided to Eskom by the supplier/manufacturer	Letter from the contractor stating the manuals provided	Full equipment specific technical manuals for maintenance and operation will be provided	5	50%
			Generic technical manuals for maintenance and operation will be provided	4	
			Partial manuals provided describing maintenance and operation	2	
			No manuals supplied	0	
2. Technical			50%		
2.1	Mechanical	Proof of design, with data sheets and drawings of the	All required compressor train data sheets and drawings submitted, containing all required information and as per requirements.	5	100%

Tender Technical Evaluation Criteria: Supply and Delivery of Oil Free Compressor and Air Dryers

12 of 16

	Provide proof of compressor system design covering the following - Technical and design specifications - Data sheets for the compressor train - Dryer data sheet, capacity and dew point - Flow capacity - Discharge pressure - Full capacity of the auxiliaries, - Equipment drawings (P&ID's, layout etc.), - Size of the motor and compressor dimensions.	compressor train and vessels.	All required compressor train data sheets and drawings submitted, not containing equipment size and dimensions Partial information, data sheets and drawings of the compressor train submitted not indicating all requirements listed No data sheets submitted, or not meeting the requirements No response	4 2 0 0	
3. Configuration and Documentation			10%		
3.1	Detailed equipment and spares list	List or equipment and spares	Detailed equipment and spares list provided covering the entire compressor train and all items, with equipment specifications. Equipment and spares list provided covering the entire compressor train acceptable for plant operation Limited list provided with some equipment missing from the list, or no specifications provided No list or no specifications of equipment provided	5 4 2 0	100%
4. Environmental/Quality			10%		
4.1			Submitted the proposed high-level program with all major milestones included (100%)	5	50%

Tender Technical Evaluation Criteria: Supply and Delivery of Oil Free Compressor and Air Dryers

13 of 16

		The Supplier to provide the proposed high-level delivery program including at least: - Equipment selection - Lead times - Shipping/Delivery to site		Submitted the proposed high-level program with at least more than 50% of the major milestones included	2	
				No Program submitted or less than 50% of the major milestones	0	
4.2		Adherence to specifications		All specifications covered and correct	5	50%
				Some specifications not reached.	0	
				TOTAL: 100		

Table 6: TET Member Responsibilities

[illegible]

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1.	OEM for spares support for 20 years, and services support for more than 10 years submitted
2.	Full manuals, without full operations conditions
3.	Compressor train data sheets and drawings submitted, not containing all required information but deemed acceptable as per requirements
4.	Compressor train data sheets and drawings submitted, not containing equipment size and dimensions
5.	Partial compressor dryer pair information on the operating and control dryer pair including the single diagram is submitted.
6.	Partial proposal for the plinths and ducting layout drawings for the compressor dryer pair is submitted
7.	

Table 8: Unacceptable Technical Risks

Risk	Description
1.	Spare parts and services are not locally supported.
2.	Vessel designs cannot be done according to ASME8.
3.	The Contractor not an OEM or authorised dealer.
4.	The compressors or components requires a different type of oil than what Engen can supply
5.	The compressor assembly requires a different type of grease than what Engen can supply

3.7.2 Exceptions / Conditions

Table 9: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Utilizing a standalone control system
2.	Technical deviation that does not impact the process and operation of the work or other plants

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	A compressor and or its auxiliaries that is of lower specification then required - Auxiliaries are all components in the compressor train, e.g., dryers, separator, filters.
2.	Maintenance manuals do not provide first line of maintenance requirements