Eskom	Strategy	Engineering

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TABLES

1. INTRODUCTION

This Scope of Work provides the guideline for the supply of new gearboxes and geared motors and refurbishment of gearboxes and geared motors for the Power Station. The guideline provides a recommended scope of work and inspection checks that can be used during the refurbishment process.

This guideline can be provided to the supplier, but the responsibilities remain with the supplier to provide the final Scope of work (from the strip and access) to ensure that the gearbox is refurbished to standard.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for Tutuka Power Station gearbox and geared motors supply and refurbishment.

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 Tender Evaluation Team for the Tutuka Power Station for the supply and refurbishment of gearboxes and geared motors.

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.
[2] 240-48929482: Tender Technical Evaluation Procedure
[3] 240-48929482: Tender Technical Evaluation scoring form template
[4] 240-53716712: Tender Technical Evaluation Results Form Template

2.2.2 Informative

[5] 15ENG GEN-3074: Gearboxes & Geared Motors refurbishment SOW guideline for Tutuka Power Station

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
SHEQ	Safety, Health, Environment and Quality
EMD	Electrical Maintenance Department
C&I	Control and instrumentation
ISO	International Standard Organisation
TET	Technical Evaluation Team
QCP	Quality Control Plan
PS	Power Station

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

Refer section 2.2

2.8 PREREQUISITES

All personnel on the technical tender evaluation team must be familiar with this document before the tender evaluation can proceed.

3. TENDER TECHNCIAL EVALUTION STRATEGY

The evaluation method is that the companies will be measured on whether the company can manufacture new gearboxes locally, or does the company import some parts from overseas or does the company import the total new gearbox from overseas. A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. The companies conducting a repair in a gearbox and motors must use OEM original parts and supply Eskom with the proof of the OEM approved original parts for the repair of the gearbox and motor. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

3.1 TECHNICAL EVALUATION METHOD

The technical criteria and weighting is broken down as follows:

- Technical: 100%

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

The scoring method will be as follows:

Evaluation process

Table 1: Evaluation process

Score	Percentage [%]	Description
5	100	**COMPLAINT** • 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 TO THE SOW OR NON-RESPONSIVE**

The evaluation scores will be weighted as follows according to disciplines:

Engineering (100%)	
Mechanical Evaluation criteria	100%
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

3.2 TECHNICAL EVALUATION THRESHOLD

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

3.3 TET MEMBERS

Table 2: TET Members

TET number: Section to be evaluated	TET Member Name	Designation
TET 1		
TET 2		
TET 3		
TET 4		
TET 5		
TET 6		
TET 7		

4. QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Quantitative scoring sheet

No	**Qualitative Technical Criteria Description**	**Tender Returnable**	**Criteria Weighting (%)**	**Criteria Sub Weighting (%)**	**Score**	**Percentage [%]**
1.	Company experience on manufacturing, refurbishment and repairs on gearboxes/geared motors	Provide a list of gearboxes that were recently manufactured or repaired in the last year. The list should have references contact details, order number, scope executed, date of delivery	**40**	• >= 10 Gearboxes **[5]** • 5 to 9 Gearboxes **[4]** • 1 to 4 Gearboxes **[2]** • 0 gearboxes or non-responsive **[0]**		
2	Does the company/service provider enforces Quality control measures during manufacturing/ refurbishment of gearboxes and geared motors	Provide previous approved and signed off detailed QCP with intervention points on gearboxes manufacturing or refurbishment	**15**	• Sound and approved detailed QCP is provided **[5]** • QCP is not signed off or does not have intervention point but applicable to gearbox work **[2]** • QCP not provided or not applicable **[0]**		

3	Does the company manufacture the complete new gearboxes/geared motors in South Africa or does the company import the whole gearbox/geared motors from overseas Does the company import OEM original parts from overseas or they manufacture/refurbishment parts locally?	Provide signed letter that specify the origin of the gearboxes components	**15**	Gearbox components are 80-100% locally manufactured **[5]** Gearbox components are 50-79% locally manufactured **[4]** Gearbox components are 20-49% locally manufactured **[2]** Gearbox components are <19% locally manufactured **[0]**		
4	Gearbox manufacturing lead time.	Provide detailed programme for manufacturing of a BTA500 gearbox	**15**	4 - 5 months **[5]** 6 – 7 months **[4]** 8 to 10 months **[2]** >10 month **[0]**		
5	New gearbox or geared motor expected lifetime.	Provide a typical calculation indicating the expected lifetime of any gearbox (supplier's choice)	**15**	Calculation is sound and detailed **[5]** Calculation is not sound or did not respond **[0]**		

4.1 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET7
1	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X

5. FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

5.1.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	**Service provider has refurbished or manufactured at least 5 gearboxes/geared motors in the past year**
2.	**Gearboxes components are 50% locally manufactured**
3.	**Service provider lead time to manufacture a BTA500 gearbox is 7 months**

Table 6: Unacceptable Technical Risks

Risk	Description
1.	**ISO 9001:2008 or equivalent certification non-compliance**
2.	**Inadequate gearbox manufacturing experience.**
3.	**Inadequate tender returnables.**

5.1.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**N/A**

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**N/A**

6. AUTHORISATION

This document has been seen and accepted by:

Name	Designation

7. REVISIONS

Date	Rev.	Compiler	Remarks
June 2021	0.1		Draft document for comment
February 2025	1		For Approval

8. DEVELOPMENT TEAM

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

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9. ACKNOWLEDGEMENTS

N/A