Eskom	Strategy	Engineering

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1. INTRODUCTION

Lethabo Power Station is a coal-fired power station located in Free State Province, South Africa. It comprises six 618MW production units (i.e., installed capacity of 3 708MW). The power station's operational functions require a supply of spares utilized in the primary function of energy production and other related functions.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document provides the tender technical evaluation strategy for the supply of centrifugal pumps at Lethabo Power Station. The document provides annexure schedule A and B (attached) developed to address various aspects required to perform the technical evaluations with reference to applicable Eskom technical standards.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as the basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to Lethabo Power Station only.

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] 240-70240749: Strategic and Critical Spares Policy

[3] 32-1033: Eskom Procurement and Supply Chain Management Policy

[4] 32-1034: Eskom Procurement and Supply Management Procedure

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2.2.2 Informative

[1] 240-48197042 Procedure for the Identification and Planning of Plant Asset Obsolescence

2.3 DEFINITIONS

Term	Description
Centrifugal Pump	A centrifugal pump is a type of hydraulic machine designed to transport liquids from one location to another by converting mechanical energy from a motor or engine into kinetic energy in the fluid, which is then transformed into pressure energy for discharge

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
MW	Megawatt
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

A/B Schedule for new centrifugal pumps.

3. TENDER TECHNICAL EVALUATION 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%.

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3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Mark Verwey	Outside Plant Engineer
TET 2	Pieter Holtzhausen	Outside Plant Engineer
TET 3	Thami Khumalo	Outside Plant Engineer - Duvha

TET members ~~above~~ must be appointed prior to the technical evaluations. The names have been acknowledged by the accountable manager.

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Tenderer to submit completed Schedule A&B form for **all** pumps.	Schedule A&B	To ensure that the tenderer knows which pumps need to be supplied and that all pumps on the list are supplied.
2.	Submission of valid ISO 9001:2015 certification.	ISO 9001:2015 Certificate	To ensure that the tenderer has processes in place to ensure that delivered products meet quality standards and that their processes have been independently verified.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)
1.	Submit **Technical Data Sheets** for each of the pumps as per submitted schedule A&B. If more than one model/size is indicated on the datasheet , the supplier must clearly indicate which model will be supplied : Scoring Criteria: 0 = Not provided or provided for less than 51% of all pumps 2 = Provided for 51% to 89% of all pumps 4 = Provided for 90% to 99% of all pumps 5 = Provided for all pumps	Technical Datasheet	10
2.	Submit Technical data sheets that contain the **pump curve** for each of the pumps as per submitted schedule A&B. If more than one model/size is indicated on the datasheet , the supplier must clearly indicate which model will be supplied : Scoring Criteria: 0 = Not provided or provided for less than 51% of all pumps 2 = Provided for 51% to 89% of all pumps	Technical Datasheet indicating pump curve	20

<table>
<tr><td></td><td>4 = Provided for 90% to 99% of all pumps
5 = Provided for all pumps</td><td></td><td></td></tr>
<tr><td>3.</td><td>Submit Technical data sheets that contain the <u>general arrangement drawing</u> for each of the pumps as per submitted schedule A&B. If more than one model/size is indicated on the datasheet , the supplier must clearly indicate which model will be supplied :
Scoring Criteria:
0 = Not provided or provided for less than 51% of all pumps
2 = Provided for 51% to 89% of all pumps
4 = Provided for 90% to 99% of all pumps
5 = Provided for all pumps</td><td>Technical Datasheet indicating GA drawing</td><td>20</td></tr>
<tr><td>4.</td><td>Submit 5 references of <u>verifiable experience</u> (within the last 5 years) in supplying pumps. Five (5) references are required, in a tabular format as shown below, for supply of pumps. The Reference table below must be completed. Additionally, the order or delivery note for each reference must be attached as proof.
Scoring Criteria:
0 = Not provided/no relevant experience.
2 = Less than 3 verifiable references in supply of pumps.
4 = 3 or 4 references submitted in supply of pumps.
5 = 5 or more verifiable references submitted in supply of pumps.
Reference Tabel :
<table>
<tr><th>Company supplied</th><th>Description of pumps supplied</th><th>Date that pumps were supplied</th><th>Name, designation and contact number of reference person</th><th>Purchase order/contract number</th></tr>
<tr><td>1</td><td></td><td></td><td></td><td></td></tr>
<tr><td>2</td><td></td><td></td><td></td><td></td></tr>
<tr><td>3</td><td></td><td></td><td></td><td></td></tr>
<tr><td>4</td><td></td><td></td><td></td><td></td></tr>
</table>
</td><td>Reference Table</td><td>30</td></tr>
</table>

5				

5	**<u>Deviations and Exclusions</u>** Tenderers must submit a letter of deviations/exclusions to the scope of work , specifically the additional conditions and notes section as listed below. If there are no exclusions or deviations, then a letter with a clear statement that there are no exclusions or deviations to the offer must be submitted. This letter must be **dated and signed** on the tenderers' company letterhead. **Additional Conditions and Notes :** 1. Pumps are bare shaft pumps unless otherwise specified. Exclusions on the list above : Stock nr : 636515 & 636514. 2. Delivery Conditions are as follows : a. Pump to be dry. b. Pump to have a label stating "No Oil" (if applicable). c. Open flanges must be blanked off for FME purposes. d. Supplied in a box/pallet. e. Bare shaft end must be wrapped/covered to protect key and key-way. 3. Sealing arrangement : Mechanical seal according relevant API 610 plan unless otherwise stated. 4. Testing and inspection certification : Where stated in the stock description the pump will be supplied with a balancing certificate according to ISO 21940 – Gr 2.5. Hydrostatic test on all pumps according to EN12162 or equivalent. Where stated in stock description performance tests will be done in accordance with ISO 9906 Gr2B. 5. Material certification of components : A 3.1 material certificate in accordance with EN 10204 for the following minimum components must be supplied as part of each pumps data book : volute casing , impeller , stuffing box/back cover , wear plate (If applicable), shaft and shaft sleeve. 6. Each pump shall be supplied with a databook comprising of the following :	Exclusions and Deviation Letter on company letterhead	20

	a. Pump data sheet b. GA Drawing c. Sectional Drawing d. Dynamic balancing certificate e. Pump pressure/hydrostatic test certificate f. Performance test certificate g. Material certificates h. Operating and maintenance manual i. Completed QCP/ITP **Important** : No pump shall be accepted at Lethabo stores if not accompanied by a data book. 7. Name plate : Each pump shall be fitted with a nameplate that bears the following minimum details : a. Manufacturer name b. Serial Number c. Pump Model d. Head at Duty point e. Flow at Duty point f. Impeller diameter g. Speed h. Hydrostatic test pressure i. Manufacturing date Scoring criteria 0 = Nothing submitted. 2 = Letter submitted exclusions and deviations present with unacceptable technical risk. 4 = Letter submitted exclusions and deviations present with acceptable technical risk. 5 = Letter submitted with no exclusions or deviations noted.		
		TOTAL	100

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
1	X	X
2	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**
1	X	X
2	X	X
3	X	X
4	X	X
5	X	X

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3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Equivalent products for obsolete material supported by datasheets that reflect the that the pump performance , material of construction and dimensions will be in line with the specification and require no modification or compromise on the plant or process.
2.	References are for other pump types (Eg. positive displacement , screw etc.)
3.	Exclusions or deviations from scope/spec but is acceptable to plant or is an upgrade form previous spec

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Non-Equivalent products for obsolete material supported by datasheets where applicable.
2.	Deviations that require plant modifications
3.	Exclusions that pose an unacceptable risk to the plant and production

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Mark Verwey	Outside Plant Engineer	
Pieter Holtzhausen	Outside Plant Engineer	

5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2024	0.1	J. Drake	First Draft for comments
February 2025	1	J Drake	First revision for use.
October 2026	2	M.Verwey	Second Revision
November 2026	3	M.Verwey	Inserted ISO 9001 requirement
November 2026	4	M.Verwey	Changed section 2.7 . Changed weightings that were not correct (Criteria 4 from 20 to 30). Added additional information on acceptable technical risk 1 on page 11. Criteria 1,2 &3 have score 4 & 5 has been changed. TET 3 Member added as requested by HOD.

6. DEVELOPMENT TEAM

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

- Johnshaw Drake
- Pieter Holtzhausen
- Mark Verwey

7. ACKNOWLEDGEMENTS

- TET members

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