CONTENTS

TABLES

1. INTRODUCTION

The services requested is for provision of condition monitoring services for balance of plant using handheld equipment at Arnot Power Station as stipulated and prescribed in this document for a period of 60 months using the employer's equipment. The sole purpose of condition monitoring is to keep machines in useful operating state and avoid catastrophic failures by taking remedial action to correct deficiencies.

Condition monitoring remains a useful tool for knowing equipment operational condition and life cycle management and often takes place at a specified interval as prescribed by the maintenance strategy. The maintenance strategy specifies what failure mode are to be monitored, monitoring frequency and the ideal technique for monitoring.

This Tender Technical Evaluation Strategy (TTES) establishes a structured, objective and transparent approach for evaluating the technical capability of bidders for **provision of condition monitoring services for balance of plant using handheld equipment at Arnot Power Station** The strategy defines mandatory and qualitative technical evaluation criteria, roles and responsibilities of the Technical Evaluation Team (TET), and acceptable / unacceptable risks and qualifications

2. SUPPORTING CLAUSES

2.1 SCOPE

- This document defines the technical evaluation approach to be applied during the evaluation of tenders for the provision of condition monitoring services for balance of plant using handheld equipment at Arnot Power Station.

CONDITION MONITORING TECHNIQUES CURRENTLY BEING UTILIZED AT ARNOT POWER STATION.

- Vibration Analysis
- Tribology
- Infrared Thermography
- Shaft Laser Alignment
- Ultrasonic Testing
- Motor Current and Voltage Analysis
- Visual Inspections

2.1.1 Purpose

The purpose of this strategy is to define:

- Mandatory technical evaluation criteria
- Qualitative technical evaluation criteria
- Technical evaluation threshold
- TET member responsibilities
- The strategy serves as the basis for conducting a consistent and auditable tender technical evaluation.

2.1.2 Applicability

This document is applicable to Arnot Power Station and shall be used for the technical evaluation of tenders relating to provision of Condition Monitoring Services for Balance of Plant for using hand-held Technology.

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] Eskom Procurement Policy (32-1034)

[3] Eskom Tender Technical Evaluation Procedure

[4] ISO 9001 – Quality Management Systems

[5] OSHAS 18001 Occupational Health and Safety

[6] ISO 14001 Environmental management systems

2.2.2 Informative

- OEM manuals and refurbishment guidelines
- Eskom Plant Engineering Standards and Procedures

2.3 DEFINITIONS

Definition	Description
Tender Technical Evaluation (TTE)	Process to assess bidder technical capability
TET	Technical Evaluation Team.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
TET	Technical Evaluation Team
QCP	Quality Control Plan
OEM	Original Equipment Manufacture
PM	Preventative Maintenance
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

Technical Team: Assess technical compliance.

2.6 PROCESS FOR MONITORING

- Technical evaluation conducted in accordance with this strategy.
- Results documented and signed by all TET members.
- Deviations escalated to Engineering Manager.

2.7 RELATED/SUPPORTING DOCUMENTS

- Contract Strategy
- Scope of Work
- Technical Specifications

3. TENDER TECHNCIAL EVALAUTION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

- All mandatory criteria must be met (Pass/Fail).
- Minimum qualifying score for qualitative evaluation: 80**%**.

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	…….	Manager, Performance and Testing
TET 2	……..	Senior Advisor, Auxiliary Engineering
TET 3	……..	Senior Advisor, Performance and Testing

3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

No.	Mandatory Requirement	Evidence Required	Pass/Fail
M1	Site Supervisor (x1) - must have a National Diploma in Mechanical/Electrical Engineering, a Certificate in Supervisory Course and 10 years working Experience on a Supervisory level. Vibration Analysis Level III Certificate, Oil Analysis Level I, Thermography Certificate Level II, Oil Analysis Level I, Root Cause Analysis Training. Knowledge of Motor Current Analysis.	National Diploma Certificate Ultrasound Training Vibration Analysis Certificate Level III Oil Analysis Level I or MLA/FLA Level I Thermography Certificate Level II Root Cause Analysis Certificate CV	
M2	Condition Monitoring Analyst (x2)- to have a National Diploma in Mechanical/Electrical Engineering with a minimum of 3 years related Experience. Vibration Analysis Certificate Level II, Thermography Certificate Level I, Computer Literacy.	National Diploma Certificate Thermography Certificate Level I CV Vibration Analysis Certificate Level II	
M3	Technical Officials (x2) - to have Grade 12, with 2 Years Power Station relevant experience. Must be Computer Literate.	Oil Analysis Level I or MLA/FLA Level I Vibration Analysis Certificate Level I & CV	
M4	Laser Alignment Technician (x1) - to have Grade 12/N4 plus technical background, knowledge of the power station, SAP Knowledge and must be computer literate	CV N4 College Certificate Shaft Laser Alignment Level II Power Generation Experience	
M5	Proven experience in Condition monitoring services (minimum 5 years)	Signed Reference letters	
M6	Health, Safety and Environmental Management System	HSE policy and plan	

Table 3: Qualitative Technical Evaluation Criteria Score Sheet

No.	Qualitative Criteria	Weighting (%)
1	Method statement for executing scope of work	40
2	Planning and resource allocation	40
3	Company's signed Referral Letter of work done previously on thermal power	10
4	Risk Management Plan (safety, environmental, operational risks)	10
Total		**100**

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

Technical Requirements	Weight %	Specific Requirements		Evidence	Score per criteria		
					Min	Max	Total Score for the criteria
Method statement on how to carry out work on similar plant	40%	Work Execution	Vibration Analysis	How will the service provider conduct vibrations analysis and issuing of Technical Reports	4%	8.00%	
			Oil Analysis	How will the service provider conduct Oil Analysis and issuing of Technical Reports	4%	8.00%	
			Infrared Thermography	How will the service provider conduct Infrared Thermography activities and issuing of Technical Reports	4%	8.00%	
			Shaft Laser Alignment	How will the service provider conduct shaft laser alignment activities and issuing of results	4%	8.00%	
			Technical Report Issuing	How will the service provider issue weekly reports? Monthly Reports?	4%	8.00%	
Planning	40%	Planning	Management of Call - Outs	How will the service provider manage call outs(NB* call out response time is one hour to site)	4%	8.00%	
			Resource allocation	How will the Servide Provider manage the resources for the running plant for the day /week including the emergent work that might arise	4%	8.00%	
			Work Scheduling	How will the service Provider plan the inspections and sheduled work required to be done on plant for the work day /week / month	4%	8.00%	
			Emergent Work	How will the Service provider plan for work that emanates from breakwdowns and call outs within 24-48 hrs	4%	8.00%	
			Management of Notifications and defects found in the plant	How will the service provider manage a defect that will hinder him/her from perfoming their CM duties e.g Bearing not accesible or missing grease nipple and notifications raised against their planner group / work centres	4%	8.00%	
HSE Management	10%		HSE plan and risk assessments Incident statistics & improvement initiatives		5%	10.00%	
Company's Referral Letter of work done previously on thermal power plant	10%		Referral Letter of Work done previously on Thermal Power Plant	A minimum of 2 referrral letters from Companies where Condition monitoring work was done	5%	10.00%	
Total Score	**100**					**100%**	**0%**
Notes :	***THRESHOLD =**						

3.5 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET n
1	X	X	X					
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 6**	**TET 7**	**TET n**
1.1	X	X	X					
2.1	X	X	X					
3.1	X	X	X					
3.2	X	X	X					
4.1	X	X	X					
5.1	X	X	X					
6.1	X	X	X					
6.2								
6.3								

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	Change of personnel
2.	Use of alternative equivalent testing equipment subject to approval.

Table 5: Unacceptable Technical Risks

Risk	Description
1.	No certified personnel.
2.	

3.6.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Non-compliance to Eskom Condition monitoring standards

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Nolitha Tshabane	Snr Advisor, Performance and Testing

5. REVISIONS

Date	Rev.	Compiler	Remarks
February 2026	1	N Tshabane	Draft document

6. DEVELOPMENT TEAM

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7. ACKNOWLEDGEMENTS

N/A