

Title: **Medupi Power Station Technical
Criteria – Medupi Power Station
Fuel Oil & LPG and Burner
Maintenance Scope of Work**

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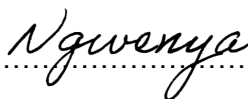
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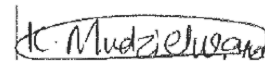
Functional Responsibility



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Date: 2026/04/16

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1. INTRODUCTION

The reliability and availability of the Burner system, in general, is a concern for Medupi Power station due to unplanned downtime, and it has contributed to production risks on the Units. Initiatives to improve the reliability and availability of the Boiler Plant, burner system amongst others includes, placing of contracts to ensure continuous improvement of the Energy Availability Factor (EAF equipment as per FFFR therefore its reliability is essential. The duration of this contract will be 60 months. This document describes the detail of the applicable plant areas, scope of work, standards, quality requirements, specifications, terms & conditions as well as the criteria to qualify for the tender.

2. SUPPORTING CLAUSES

2.1 SCOPE

The document describes the acceptable and unacceptable risks and qualifications and /or conditions.

The Tender Technical Evaluation Strategy will define the following technical evaluation criteria:

- Mandatory Evaluation criteria
- Qualitative Evaluation criteria
- TET Member Responsibilities
- Acceptable/Unacceptable Qualifications

No changes will be permitted to be made to the evaluation criteria once the Technical Evaluation Strategy is approved by the relevant Engineering Group Manager.

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 shall apply to Medupi Power Station.

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] 240-168966153: Generation Tender Technical Evaluation Procedure
- [2] Eskom Procurement and Supply Chain Management Procedure (32-1034)

2.2.2 Informative

- [3] ISO 9001 Quality Management Systems
- [4] Eskom Procurement and Supply Chain Policy (32-1033)

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2.3 DEFINITIONS

Definition	Description
Tender	A tender refers to an open or closed competitive request for quotations/ prices against a clearly defined scope/ specification.
KKS	Kraftwerk Kennzeichen System is a process plant designation system used to identify and classify equipment and components in process plant. In power plant planning and design, project construction and management of the process, it is used to provide for clear plant identification.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
C&I	Control and Instrumentation
EAF	Energy Availability Factor
CV	Curriculum Vitae
ECSA	Engineering Council of South Africa
QCP	Quality Control Plan
PrTech Eng	Professional Engineering Technologist
PrEng	Professional Engineer
TET	Technical Evaluation Team
SOW	Scope of Work
UV	Ultraviolet
IR	Infrared

2.5 ROLES AND RESPONSIBILITIES

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

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted or point scored but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 75%.

Table 1: Technical Scoring Methodology

SCORE	PERCENTAGE (%)	DESCRIPTION
5	100	COMPLIANT • Meet the technical requirement(s) AND, • No foreseen technical risk(s) in meeting technical requirements
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS • Meet the technical requirement(s) with, • Acceptable technical risks AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions
2	40	NON-COMPLIANT • Does not meet the technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions
0	0	TOTALLY DEFICIENT/NON-RESPONSIVE

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3.2 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Lindelani Mphohoni	Technician Maintenance
TET 2	Coxwell Muthuphei	Snr Supervisor Tech Maintenance
TET 3	Chrisprior Madonsela	Snr Engineer
TET 4	Kgabo Choshi	Maintenance Manager
TET 5	Bernard Matanda	Acting Boiler Engineering Manager

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 3 defines all Mandatory Evaluation Criteria to be used as well as reference to specification and motivation for Criteria use

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Welding quality Management system	Provision of a valid ISO 3834 Certificate is mandatory	Burners are critical components of the boiler which require competent persons. This component is critical and if not maintained properly and within industry quality standards it can lead to delays in unit light up, and fuel oil carry over which may result in catastrophic failure of the boiler furnace and the gas air heater.
2.	Quality Management System	Proof of ISO 9001:2015 certificate	Ensure that service providers execute the work as per high standard expected at the power stations.

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NB: The Tenderer shall make these resources available during the execution of the Works. The resources submitted under mandatory shall be shown in the organogram. If the Tenderer changes the resource, the new candidate shall meet the requirement as stipulated in this strategy.

Qualitative Technical Evaluation Criteria

Score	(%)	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.

Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.

Note 3: The other points will either score 0 or 5 with no scoring in between the min and maximum value

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Table 4: Qualitative Technical Evaluation Criteria

Minimum score of 75 % to be attained (Mandatory score)

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting	Criteria Sub Weighting (%)
1.	Supplier experience and capabilities		30	
	1. 1. Company organogram which shows all the resources in line with the scope of work	The organogram should reflect the company structure including the resources in line with the SOW		20%
			Authorised Letter or relevant documentation	100% = 5
			No Authorised Letter or relevant documentation	0% = 0
	1.2 Proof of experience on maintenance of oil burners	Experience must include previous contracts (signed NEC with a traceable contract number) for oil burners		80%
			More than 5 years' experience.	100% =25
			Above 4 years to 5 years	15%
			Above 2 years to 4 years	10%
			From 1 to 2 years	5%
			No experience	0%
2.	Technical requirements		50	
	2.1			50%

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		Commissioning procedure or start up procedure for oil burner light up and trouble shooting	Detailed Hot and Cold Commissioning procedure detailing the light up procedure of the oil burners, trouble shooting of UV and IR Scanners and gas fired ignitors.	Data sheets with relevant and correct documentation for all Spares	100% = 25
				No Data sheets with relevant documentation for all or partial Spares	0% = 0
	2.2	Method statement for the maintenance of the components as per the SOW	Relevant Method statement detailing the steps to maintenance the plant as per the SOW		20%
				Correct method statement as per SOW	100%=10
				No/inadequate method statement	0%=0
	2.3	Fuel oil plant daily check sheet and daily logs	Detailed completed check-sheets and daily logs indicating relevant parameters		10%
				Ten or more daily check sheets submitted	15%
				Less than 5 daily check sheets submitted	5%
				No completed daily check sheets and daily logs	0
	2.4	QCP for the replacement of fuel oil pump	Fully signed (both contractor and Client) QCP for the replacement of fuel oil pump		10%
				Submission of a correct QCP	10%
				No Submission of relevant documents	0
	2.5	QCP for inspection and testing of UV and IR Scanners. QCP for inspection and testing of ignitors	Fully signed (both contractor and Client) QCP for the replacement of UV,IR Scanners and Ignitors		10%

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				Submission of both correct QCPs	10%
				Submission of one correct QCP	5%
				No submission of QCP	0%
3.	Completion certificate for the maintenance of burners	Fully Signed (both contractor and Client) QCP's on the previous worked completed on the oil and coal burners		10	100%
				More than 3 signed burner QCP's	100% = 10
				No Submission of relevant documents	0% = 0
4.	Technical personnel, knowledgeable about the scope of work.	- Curriculum vitae A class welder (accredited trade) - Curriculum vitae instrumentation/Electrician technician(trade/Diploma) - Curriculum vitae A Boiler Maker (accredited trade) - Site Manager CV with Diploma or above in Engineering Diploma/Mechanical/Electrical/Instrumentation and registered with ECSA as PrEng/PrTech Eng.		10	100%
				CV, Relevant qualification and above 5-year experience	100% = 10
				No, Relevant CV qualification and No experience	0% = 0
				TOTAL: 100	

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TET MEMBER RESPONSIBILITIES

Table 5 identifies the TET members allocated to review/evaluate each Qualitative criterion

Table 5: TET Member Responsibilities

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

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3.4 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.4.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	None

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Exclusion of scope specified in the SOW
2.	Company and staff experience not adequate for the SOW
3.	Quality control of the project must be detailed with Employer hold points defined in detail
4.	Method statement not inline with the SOW
5.	Technical specification that does not meet the scope of work

3.4.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
2.	Declining to provide technical details accurately deemed intellectual proprietary

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3.	In case of an obsolete specification, the supplier may provide proof from the manufacturer about obsolescence and new data sheets for the new specification will be acceptable.
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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Lindelani Mphohoni	Technician Maintenance
Coxwell Muthuphei	Snr Supervisor Tech Maintenance
Chrisprior Madonsela	Snr Engineer

5. REVISIONS

Date	Rev.	Compiler	Remarks
March 2026	3	CZ Madonsela	Update TES

6. DEVELOPMENT TEAM

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

- Chrisprior Madonsela
- Kgabo Choshi

7. ACKNOWLEDGEMENTS

Chrisprior Madonsela

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8. APPENDIX A:

N/A

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