



Strategy

Medupi Power Station

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1. INTRODUCTION

Medupi Power Station is in the process of establishing a contract for LV VFD's and Soft Starters repairs. An invite will be issued for prospective suppliers to participate in the tendering process for the said contract.

This document sets out the method and criteria that will be used to technically evaluate the tenderers for LV VFD's and Soft Starters repairs contract.

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:

- 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 Maintenance Group Manager.

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 basis for the tender technical evaluation process.

2.1.2 Applicability

This documents applies to the Tender Evaluation Team for Medupi Power Station LV VFD's and Soft Starters in accordance with the authorised procurement strategy.

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

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2.2.2 Informative

[1] 240-95335216: Medupi Power Station Variable Speed Drives Maintenance Strategy

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
EMD	Electrical Maintenance Department
ISO	International Standard Organisation
LV	Low Voltage
N/A	Not Applicable
SOW	Scope of Work
TET	Technical Evaluation Team
ITP	Inspection Test Plan
OEM	Original Equipment Manufacture
SANS	South African National Standards
IEC	International Electro technical Commission
PTM	Protection Tele control and Maintenance
VFD	Variable Frequency Drives

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

N/A

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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 75%.

This section details the methodology to be employed by Eskom in scoring the "Technical" category of the Tender evaluation. This evaluation exercise is performed by the appointed Eskom TET members. The evaluation of the tenders will be based on the tenderer's ability to meet the technical requirements. The evaluation consists of qualitative criteria only. The qualitative evaluation shall apply a weighted score card approach to evaluate the tenders against the Specifications and Employer's requirements. Site visit by the Employer will be conducted to inspect the workshop of suppliers who obtain a 75% on the qualitative technical criteria.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Thembelihle Majozi	Electrical Engineer – Electrical Engineering
TET 2	Nkosana Zwane	Senior Supervisor Tech-EMD
TET 3	Decent Mabasa	Senior Supervisor Maint- PTM
TET 4	Gawie Pienaar	Senior Technologist Engineer-PTM
TET 6	Cathrine Mathiyana	Senior Technician –EMD

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3.3 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 2: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Tender Returnable	Criteria Weighting (60%)	Scoring Criteria (%)
1. Repairing Capabilities	Diagnostic tools i.e. software and cables to communicate with the VFDs,	certified copies of subscription or ownership of tools	6%	Comply 6%, Partly comply =3%, no info/not comply = 0)
	Collect, strip, assess and submit breakdown report and scope, <= 5 calendar days (emergency)	Process to deal with emergency with timeliness	6%	
	Collect, strip, assess and submit breakdown and scope: 5 working days (normal)	Process to deal with call outs with timeliness	6%	
	Compliance to SANS/IEC Standards	Valid/latest copies of standards	6%	
	Previous typical Inspection Test Plans used to repair VSDs	Signed Copies of ITPs (PO, 46....)	6%	
	Proof of ownership or rental of a workshop	Copies of Lease agreement	6%	
	Lifting equipment with ability to carry a load =>350Kg.	Copies of valid Load certificates	6%	
	Accreditation from an OEM for the repair of	Copy the Technical Agreement with the OEMs	6%	

Scoring Criteria (%)	Criteria Weighing (30%)	Tender Returnable	Qualitative Technical Criteria Description
Comply 5%, Partly comply =2.5%, no info/not comply = 0		Reference to Technical Specification / Tender Returnable	Low Voltage VFD's, soft starters and Thyristor Bank Controllers.>=3
	6%	Letter confirming warranty period	Warranty on workmanship min 12 months on repaired equipment
	6%	Approved invoice and completion certificate with a purchase order number	History of previous successful VSD repair works completed either within Eskom or other organisations similar to Eskom (at least 2 successful repairs)
	5%	Method Statements and copy of previous ITP	Insulation test
	5%	Method Statements and copy of previous ITP	Light load test
	5%	Method Statements and copy of previous ITP	Load test
	5%	Method Statements and copy of previous ITP	Testing of rectifier and Inverters switches and (Diodes, thyristors and IGBT's)
		Method Statements and copy of previous ITP	Testing of DC link capacitors
		Method Statements and copy of previous ITP	Checks on Printed circuit boards.

Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Tender Returnable	Criteria Weighting (10%)	Scoring Criteria (%)
Checking of auxiliary devices Checking of the protective devices Temperature rise EM Immunity and EM Emission Capabilities to complete all Special and type tests on table 7 and table 8 (IEC 61800-2)	Checking of auxiliary devices	Method Statements and copy of previous ITP	5%	Comply 5%, Partly comply =2.5%, no info/not comply = 0
	Checking of the protective devices	Method Statements and copy of previous ITP	5%	
	Temperature rise	Method Statements and copy of previous ITP	5%	
	EM Immunity and EM Emission	Method Statements and copy of previous ITP	5%	
	Capabilities to complete all Special and type tests on table 7 and table 8 (IEC 61800-2)	Method Statements and copy of previous ITP	5%	
	3. Experience	Staff competency	Certified and verified copies of qualifications and other relevant training for the following personnel: Technician and Artisan relevant to the scope of this contract	
Company profile		Details of company operation in repairing VFDs, Approved invoice and completion certificate with a purchase order number (at least 2 successful repairs)	5%	
			TOTAL: 100	

3.4 TET MEMBER RESPONSIBILITIES

Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1,28.3	X	X	X	X	X	X
1,28.3	X	X	X	X	X	X
1,28.3	X	X	X	X	X	X
1,28.3	X	X	X	X	X	X

Table 2: TET Member Responsibilities

3.5 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.5.1 Risks

Table 3: Acceptable Technical Risks

Risk	Description
1.	Tendering without conducting site visits for plant walk-downs.

Table 4: Unacceptable Technical Risks

Risk	Description
1.	Failure to meet mandatory criteria requirement

3.5.2 Exceptions / Conditions

Table 5: Acceptable Technical Exceptions / Conditions



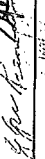


Risk	Description
1.	Declining to provide technical details accurately deemed intellectual proprietary.

Table 6: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation from technical criteria requirements

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Nkosana Zwane	Senior Supervisor Tech –EMD	
Nkosinathi Mahlangu	Chief Technologist Elect-PTM	
Gawie Pienaar	Senior Technologist Engineer-PTM	
Decent Mabasa	Senior Supervisor Maintenance –PTM	
Thembelihle Majozi	Electrical Engineer – Electrical Engineering	

5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2022	1	P Twala	Final document for Authorisation
June 2023	2	P Twala	Second issue

6. DEVELOPMENT TEAM

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Gawie Pienaar
Nkosinathi Mahlangu
Decent Mabasa
Thembelihle Majozi
Pontsho Letsholonyane

7. ACKNOWLEDGEMENTS

Thanks to the development team

8. ANNEXURE A

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