

Title: **REFURBISHMENT TENDER
TECHNICAL EVALUATION
STRATEGY FOR BOILER AND
TURBINE SAFETY VALVES**

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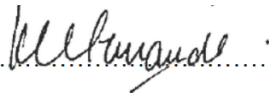
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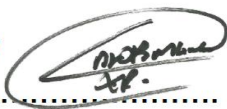
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1. INTRODUCTION

Duvha Power Station units 1, 2, 4, 5 and 6 comprise of identical Turbine and Boiler House that consist of the HP Heaters, LP Heaters, DA/DST Vessels, Feed Water, Auxiliary Steam Range, Soot Blower, FRF, BFPT and MOT Safety Valves that need to be refurbished during planned outages. The refurbishment of the Safety Valves during planned outages will increase plant availability and reliability as well as production performance.

2. SUPPORTING CLAUSES

2.1 SCOPE

The *Works* consists of the Provision of Manpower and Consumables to perform Safety Valves Refurbishment during an outage(s). Therefore, the SOW will cover outages on Turbine and Boiler Auxiliary areas and the SOW must be performed by the *Contractor* according to the information stipulated in 382-170469 *Duvha Power Station Safety Valves Refurbishment - Works Information* document.

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 Duvha 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.

- [1] 240-168966153 Tender Technical Evaluation Procedure
- [2] 382-170469 Duvha Power Station Safety Valves Refurbishment - Works Information

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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
ISO	International Organization for Standardization
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Tender Technical Evaluation Procedure

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The mandatory technical evaluation criteria are “must meet” criteria. These criteria shall not be weighed but shall be assessed on a Yes/No basis as to whether the criteria are met or not. 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 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 weighed to reflect relevant importance of each criterion.

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%. Should no supplier meet the minimum threshold of 70%, Eskom reserves the right to negotiate and/or consider suppliers that scored between 65%-69%.

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3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Mzamani Mashaba	System Engineer
TET 2	Xolile Mlambo	System Engineer
TET 3	Zamo Kumalo	System Engineer

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

NOTE: The Mandatory Criteria set out in Table 2 below must be met first. Suppliers who fail to meet these criteria will be disqualified and not be considered further for this evaluation.

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Motivation for use of criteria
M1	Submit a company profile of the tenderer that intends on executing the physical scope containing: • Company main business • Proof of address of main workshop where safety valves will be refurbished and is occupied by the tenderer. • Complete Company organogram including - Executive level structure - Workshop level structure (indicating years of experience on safety valves) The tenderer shall be the entity that executes the physical scope, not a subcontractor with the exception of the acceptable risks 3.6 Foreseen Acceptable / Unacceptable Qualifications. The tenderer's facilities will be visited for confirmation of their capacity to execute the required scope in M3.	To ensure high quality of workmanship
M2	Provide proof of valid, up to date ISO 3834-2 certificate: - All pages of the ISO 3834-2 certificate to be submitted. Material Groups 1, 5, 6, 8 must be listed on the certificate. - Submitted certificates with missing pages/material groups will result in tenderers being disqualified. NB: Eskom reserves the rights to verify validity of submitted certificates with necessary authorities.	To ensure document traceability

M3	Provide proof of workshop/pressure testing facilities capable of doing both water and air pressure tests (Photos of facilities, instrumented pressure test and safety valve calibration rig and address must be submitted). In order to verify certain technically critical information required for the contract, the tenderer's workshop will be visited by the TET team and contract manager. Appropriate notice will be provided.	To ensure high quality of workmanship
M4	Submit a 5-Year track record of maintenance safety valves in the form of 1. A table format consisting of a project list containing: a) The dates when the work was done b) Client or company name work was done for c) The scope of work executed by the tenderer d) Client contact details: e-mail, contact number and contact person. 2. Evidence of the work done in the form of a formal, approved contract for all listed work in 1 above. (If no evidence is submitted, that record will not be considered) The track record must cover five (5) separate calendar years (a min of one (1) project must be listed per calendar year for the calendar year to be counted), it is not required for the calendar years to be consecutive. However, no contracts before 2018 will be considered. The submitted track record will be verified by the tender evaluation team, during the evaluation of tenders. The listed client contact persons on the track records will be contacted to verify if the work was done, and if the client was satisfied with the work. Clients that state that they were not satisfied with the work done by the tenderer or clients that dispute that work was done by the tenderer, will be disregarded from the tenderer's track record. If there is no confirmation of satisfactory execution of the work by a previous client, then the entry on the track record will be disregarded	To ensure high quality of workmanship

	There are two conditions that must be met by the submitted track record for mandatory requirement M-4 to be satisfied: 1. 60% of all the tenderer's previous clients listed on the submitted track record that are valid as per the conditions above, must confirm that the tenderer executed the stated work, and to their (clients) satisfaction. 2. The total track record of verified satisfactory work (disregarded clients or projects will not be considered), must cover a 5-year period, no further back than 2018. The calendar years need not be consecutive.	
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3.4 TECHNICAL EVALUATION CRITERIA

The following section will be scored as detailed in the tables below

Table 3: Qualitative Evaluation Criteria Scoring Table

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

Table 4: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description		Reference	Criteria Weighting (%)
Document Requirements relative to the scope of work			
Q1.	<i>Contractor</i> to provide three (3) separate method statements: (a) for calibration verification test and, (b) for confirming coil spring stiffness. (c) for the safe transportation of Safety Valves	Duvha Power Station Safety Valves Works Information	35
Q2.	<i>Contractor</i> to provide at least one example of a WPS. Provide the following Welding procedures qualified to ISO 15614-7 as a minimum: – Carbon steel base material PQR & WPS with stainless steel butter layer overlaid with Stellite 6. Mechanical test results must be submitted. – Overlay PQR & WPS for Group 5.2 base material overlaid with Stellite 6 with PWHT. Mechanical test results must be included.	Duvha Power Station Safety Valves Works Information	20
Q3.	Contractor to provide the following: a) Workshop Supervisor To be in possession of: • Minimum National Diploma or N5 (Engineering) OR SAQA accredited equivalent WITH proof of exact equivalency from SAQA. • 5 years managing workshop for valve repairs including Safety Valve.	Duvha Power Station Safety Valves Works Information	35

	b) Machinist To be in possession of: • Mechanical Fitter Trade Tested with a min N2 qualification OR SAQA accredited equivalent WITH proof of exact equivalency from SAQA • 3 years' practical machinist experience after acquiring trade test. c) Quality inspectors (QC) To be in possession of: • QC Certification (Min SAIW Level 2 Inspector or equivalent) • 3 years QC for Safety Valves repairs. d) Semi-Skilled Artisans/ Operators Min 3 years' experience working with Safety Valves hands on.		
Q4.	Technical exclusions. If there are no technical exclusions, this must be clearly stated in a signed letter format.	Duvha Power Station Safety Valves Works Information	10
			TOTAL: 100

3.5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	X	X	X
3	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
1.1	X	X	X
1.2	X	X	X
1.3	X	X	X
1.4	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Lack of specialised skills in on site flange face machining, and functional tests

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Inability to do both water and air safety valves pressure testing
2.	Insufficient valves seats stelling experience

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Criteria 2: Welding Requirements Due to the specialised nature of the work required in this criterion, the tenderer shall be allowed to subcontract any welding work to a third party, subject to the Eskom Engineer, Eskom Welding QC and AIA's approval and in line with the contract SOW. Therefore, in order to attain the points of criteria 2 in the event that the tenderer does not have these facilities, the tenderer is required to submit at least one (1) historic job for each of the individual requirements (Q2). This will include: - Job scope of work - Third Party trading name and address

	- WPS and WPQR for that job - Signed and approved QCP for that job To attain the points for Q2, the tenderer will be required to submit evidence that any of the third parties they have, provided a history of work for in Q2 above are in possession of the required equipment and documentation.
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Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	All requirements must be adhered to. Non submission or exclusion of any one of the listed as requested in the Qualitative criteria under 1 to 4 will result in a Zero score.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Michael Amir	Senior Consultant – Generation Engineering
Nicolaas Hallatt	Chief Engineer – Turbine Engineering
Sylvester Mashaba	Senior Engineer – Turbine Engineering
Zamo Kumalo	System Engineer – Turbine Engineering
Ben Hlatshwayo	Senior Engineer – Boiler Engineering
Lucas Mabuza	System Engineer – Turbine Engineering

5. REVISIONS

Date	Rev.	Compiler	Remarks
January 2024	0	M Mashaba	Draft Document for Comments Review Process.
February 2024	1	M Mashaba	Reviews comments incorporated
May 2026	2	M Mashaba	Updated evaluation criteria, TET member and Foreseen qualifications

6. ACKNOWLEDGEMENTS

Not Applicable

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