 Eskom	Strategy	Engineering
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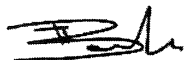
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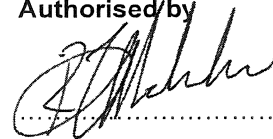
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Authorised by



Engineer: Feed Heating Plant

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1. INTRODUCTION

Kriel Power Station uses four Low-Pressure Heaters, and two banks of High-Pressure Heaters (two High Pressure heaters per bank) on each of its six units.

The Low-Pressure heaters (single-shell type) are used to heat the main condensate stream flowing from the condenser to the deaerator storage tank, to improve the efficiency of the turbine cycle. The condensate is heated by means of bled steam extracted from the turbine.

The High-Pressure Heaters assist in heating the feedwater flowing from the deaerator storage tanks to the economiser (boiler). The feedwater is heated by IP bled steam (HP Heater 6) and from the Cold Reheat (HP Heater 7).

The feed heating system consists of safety valves on the steam and water supply systems. This document provides the tender technical evaluation strategy that will be used to evaluate tenderers for the works relating to safety valve refurbishment on Kriel Power Station's feed heating system.

2. SUPPORTING CLAUSES

2.1 SCOPE

This strategy defines the Technical Evaluation Team (TET), their responsibilities and the criteria to be used to evaluate tenders received for the above-mentioned scope.

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 strategy document applies to Turbine Engineering and the Feed Heating Plant at Kriel 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] 240-48929482: Tender Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement Policy

2.2.2 Informative

- [3] 555-ETP2009 : Scope of Work to Conduct Safety Valve Refurbishment on the Feed Heating Plant at Kriel Power Station

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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
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

Not applicable.

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable.

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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 70%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	██	Engineer: Kriel Power Station Turbine Engineering
TET 2	██	Engineer: Kriel Power Station Turbine Engineering
TET 3	██	Senior Advisor Technical Support
TET 4	██	Senior Advisor Outages Kriel Power station
TET 5	██	Engineer: Kriel Power Station Boiler Engineering

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3.3 MANADATORY 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. The Contractor responsible for the welding must be ISO 3834-2 certified. Provide proof of certification.	Section 3.2.9 (refurbishment requirements) of 555-ETP2009 : <i>Scope of Work to Conduct Safety Valve Refurbishment on the Feed Heating Plant at Kriel Power Station</i>	To guarantee high quality of welding work during refurbishment

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA SCORING MATRIX

The qualitative criteria will be scored according to the scoring matrix set out in the Tender Engineering Evaluation Procedure 240-48929482.

Table 3 shows the scoring matrix that will be used.

Table 3: Qualitative Technical Evaluation Criteria Scoring Matrix

Score	%	Definition
5	100	COMPLIANT <ul style="list-style-type: none"> Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS <ul style="list-style-type: none"> Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions.

2	40	NON-COMPLIANT <ul style="list-style-type: none">• 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.		

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description								
	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluation Scoring Breakdown				
	TECHNICAL INFORMATION			0	2	4	5	
1.	QUALITY CONTROL PLAN (QCP)	Submit a QCP for a valve that was refurbished by the company tendering for the contract, containing all the refurbishment steps required to successfully refurbish a safety valve and the lift pressure setting certificate	10		No QCP provided	QCP submitted with unacceptable risks	QCP submitted with minor omissions or acceptable risks	QCP submitted meets or exceeds all technical requirements
2.	SPRING STIFFNESS TESTING CAPABILITIES	The company tendering for the contract must submit proof of their spring stiffness testing capabilities. It must be proven that the company tendering for the contract, can obtain the stiffness value in N/mm of a	5		No proof provided	Proof provided with unacceptable risks	Proof provided with acceptable risks	Comprehensive proof provided to demonstrate spring stiffness

	spring that was removed from a safety valve.						testing capability
3.	OEM PART UTILISATION	Submit proof (invoices with proof of payment) that the company tendering for the contract utilises safety valve OEM parts during refurbishments. Proof must be submitted that replacement spares were procured from the OEM or OEM representative (in the latter case a letter from the OEM is required that states the company is in partnership with the OEM for the supply of valve spares), the proof required for the tender is the refurbishment QCP (fully signed off) that indicates which parts required replacement, an invoice from the OEM or OEM local representative (OEM letter also needed in the latter case), and a proof of payment from the bank showing that the company tendering for the contract, paid the invoice for the procurement of OEM safety valve spares.	10	No proof/information provided	Some documents provided but no clear indication that the tenderer utilises OEM parts or is in partnership with OEM for spares	Documents provided with minor missing information. There is clear indication that tenderer utilises OEM spares or is in partnership with OEM for spares.	All documents have been submitted and meet/exceed all technical requirements (invoices, proof of payments, OEM letter where necessary and QCP)
4.	SAFETY VALVE REBURFISHMENT METHOD STATEMENT – (TRANSPORT, REBURFISHMENT, PRESSURE SETTING AND LEAD SEAL)	Submit a method statement describing the companies procedure for safety valve refurbishment, the method statement must include as a minimum the company's procedure for safety valve transportation, safety valve refurbishment (disassembly, valve part storage, inspection replacement of components, spares management, spring testing, lapping and blueing, assembly, inspection reports), safety valve pressure	10	No method statement provided	Methodology submitted with unacceptable risks	Methodology submitted with minor omissions or acceptable technical risks	Method statement provided meets all technical requirements

	setting procedure and a safety valve lead seal installation procedure.								
5.	SAFETY VALVE TRAINING The contractor must submit demonstrable evidence (training certificates, course attendance registers etc.) that a minimum of one technical person was trained in the repair and refurbishment of safety valves. Training certificates no further back than 2013 will be accepted.	10	No evidence/information provided	Evidence submitted with unacceptable risks	Evidence submitted with minor omissions or acceptable risks	Comprehensive evidence provided			
6.	Company experience – relevant to the tender SOW Submit a 3-year track record consisting of a project list containing: 1. The dates when the work was done 2. Client or company name work was done for 3. The scope of work executed by the tenderer 4. Client contact details: e-mail, contact number and contact person. The track record for safety valve refurbishment and lift pressure setting must start from 2010. Any work done prior to 2010 will not be considered for this tender as it is too far in the past. for confirmation of their capacity to execute the required scope.	30	No company experience submitted/ company does not meet all requirements			Company experience submitted and meets all requirements			
7.	WORKSHOP VISIT AT THE COMPANY TENDERING FOR THE CONTRACT'S WORKSHOP The Eskom Tender Evaluation Team will visit all the workshops of companies that tendering for the contract and that meet mandatory	15	Workshop not available or workshop available with insufficient			Workshop available with full safety valve			

WHERE THE SAFETY VALVES WILL BE REFURBISHED.	requirements. During the workshop visit the tools and staff will be inspected by the evaluation team safety valve refurbishment capabilities			safety valve refurbishment capabilities		refurbishment capabilities
8. SUBMIT A TRACK RECORD FOR SAFETY VALVE REFURBISHMENT AND LIFT PRESSURE SETTING MUST START FROM 2017	<p>The track record must cover three (3) separate calendar years (a minimum of one 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.</p> <p>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 <u>not</u> 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</p> <p>There are two conditions that must be met by the submitted track record for mandatory requirement 2 to be satisfied:</p> <p>1. 60% of all the tenderer's previous clients listed on the submitted track record, must confirm that the tenderer executed the stated work,</p>	10	Track record not submitted/ does not fully meet all requirements	Track record submitted and meets all requirements		

		and to their (clients) satisfaction.							
		The total track record of verified satisfactory work (disregarded clients or projects will not be considered), must covers a 3-year period, no further back than 2010. The calendar years need not be consecutive.							

3.6 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	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Subcontracting of spring stiffness testing and welding activities will be allowed.
2.	Two attempts will be allowed during the site visit for the contractor to successfully set the safety valve without it passing before the lift set pressure of 25 MPa.

Table 7: Unacceptable Technical Risks

Risk	Description
1.	The tenderer is not the company that executes the safety valve refurbishment, subcontracting of the safety valve refurbishment activities will not be allowed, except for spring stiffness testing and welding.

3.7.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None.

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
[REDACTED]	Engineer: Kriel Power Station Turbine Engineering
[REDACTED]	Engineer: Kriel Power Station Turbine Engineering
[REDACTED]	Senior Advisor – Technical Support

5. REVISIONS

Date	Rev.	Compiler	Remarks
April 2023	0	M. Reddy	First Issue
May 2025	1	S. Bhembe	Rev 1 after comments from Procurement

6. DEVELOPMENT TEAM

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

- A Rudman
- M Amir

7. ACKNOWLEDGEMENTS

- A Rudman
- M Amir

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