

	Strategy	Generation
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Title:

Kriel Tender Technical
Evaluation Strategy for Main
Turbine and Boiler Feed Pump
Turbine Lube Cooler Bundle

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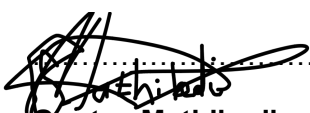
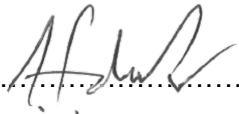
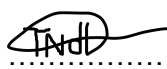
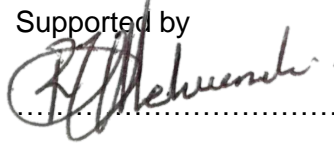
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CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
2.1 SCOPE	3
2.1.1 Purpose	3
2.1.2 Applicability	3
2.2 NORMATIVE/INFORMATIVE REFERENCES	3
2.2.1 Normative	3
2.2.2 Informative	3
2.3 DEFINITIONS	3
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	4
2.6 PROCESS FOR MONITORING	5
2.7 RELATED/SUPPORTING DOCUMENTS	5
3. TENDER TECHNICAL EVALUATION STRATEGY	5
3.1 TECHNICAL EVALUATION THRESHOLD	5
3.2 TET MEMBERS	5
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	6
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	6
3.5 TET MEMBER RESPONSIBILITIES	7
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	8
3.6.1 Risks	8
3.6.2 Exceptions / Conditions	8
4. AUTHORISATION	10
5. REVISIONS	10
6. DEVELOPMENT TEAM	10
7. ACKNOWLEDGEMENTS	10

TABLES

Table 1: TET Members	5
Table 2: Mandatory Technical Evaluation Criteria	6
Table 3: Qualitative Technical Evaluation Criteria	6
Table 4: TET Member Responsibilities	7
Table 5: Acceptable Technical Risks	8
Table 6: Unacceptable Technical Risks	8
Table 7: Acceptable Technical Exceptions / Conditions	8
Table 8: Unacceptable Technical Exceptions / Conditions	9

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1. INTRODUCTION

This document provides the tender technical evaluation criteria for new Kriel Main Turbine and Boiler Feed Pump Turbine Lube Cooler Bundle

2. SUPPORTING CLAUSES

2.1 SCOPE

The document covers the Tender Technical Evaluation Strategy for the Kriel Main Turbine and Boiler Feed Pump Turbine Lube Cooler Bundle.

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 applies to 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] 240-168966153: Generation Tender Technical Evaluation Procedure Rev 1
- [2] 1650 Kriel Tender Technical Evaluation Strategy for Main Turbine and Boiler Feed Pump Turbine Lube Cooler Bundle Technical Specification

2.2.2 Informative

N/A

2.3 DEFINITIONS

Definition	Description
Pipework	Pipes and fittings are used for the conveyance of steam, water, gases or other fluids.

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Definition	Description
Contractor	A group of people and facilities (corporation, firm, enterprise, institution etc.) with an arrangement of responsibilities, authorities and relationships. It also refers to supplier, consultant and service provider
Valve	A device that regulates the flow of gases, liquids, fluidized solids and slurries by opening, closing or partially obstructing various passageways.
Manufacturer	The word supplier refers to the Manufacturer or Contractor involved with the production and or design of the final product,
Quality Control Plan (QCP)	A document specifying the activities to be inspected throughout the execution of the project, inclusive of test methods, procedures and acceptance criteria. (This term is equivalent to QIP and ITP)

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
Aux	Auxiliary
BFPT	Boiler Feed Pump Turbine
CW	Cooling Water
C&I	Control and Instrumentation
ECM	Engineering Change Management
FAT	Factory Acceptance Test
ITP	Inspection and Test Plan
MTC	Main Turbine Condenser
NB	Nominal Bore
NCR	Non-conformance Report
NDT	Non-destructive Testing
OD	Outside Diameter
PVC	Polyvinyl Chloride
QCP	Quality Control Plan
RT	Radiography Testing
UV	Ultraviolet

2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-168966153: Generation Tender Technical Evaluation Procedure

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2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

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	Gontse Mathibedi	System Engineer, Cooling and Condenser , Kriel Power Station
TET 2	Francois du Preez	Corporate Specialist, Generation Engineering
TET 3	Senamile Nzama	Engineer, Generation Engineering
TET4	Ouma Moyo	

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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.	A letter signed by Contractor stipulating that the tubes will comply to ASTM B111M requirements	Section 4.1 in [2]	Ensure tube quality in line with Eskom standard.
2.	Verifiable reference list of industrial (power or petrochemical industry) shell and tube heat exchangers designed and manufactured by the Contractor during the last 5 years. A minimum number of 10 shell and tube heat exchangers are required. The reference list shall contain the year of manufacture and client company name as a minimum.	Section 4.1 in [2]	Ensure supplier has sufficient experienced to manufacture these coolers.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)
1.	A completed Quality Control Plan or Inspection and Test Plan of a similar heat exchanger built by the Contractor in the past.	Section 4.2 in [2]	20
2.	Exclusions or qualifications to the works Information. If there are no exclusions or qualifications then a specific statement to that effect is required.	Section 4.2 in [2]	25
3.	An example of a method statement, from the <i>Contractor</i> , for tube expansion used for a similar vessel manufactured previously.	Section 4.2 in [2]	20

4.	Tools List: Table 2 (in [2]) shall be included in the tender with columns 2 and 4 completed.	Section 4.2 in [2]	25
5.	Contractor shall provide proof of ISO 3834-2 certification (all pages) for the company/manufacturer that owns and runs the workshop where the heaters will be built. The scope of accreditation of the ISO 3834-2 certificate shall include the design code to be used for this project.	Section 4.2 in [2]	10
			TOTAL: 100

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET4
1	X	X	X	X
2	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET4
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X
4	X	X	X	X
5	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	QCP are of a high level and does not include all details.
2.	Method statement for expansion is not detailed enough.
3.	Tool list not completely filled in.

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Large amount of critical exceptions to scope of work
2.	Tubes not complying to ASTM B111M
3.	Inadequate proof of previous experience or similar work
4.	Inadequate welding certification

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Full compliance to specification is required.
1.	
2.	

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	
2.	
3.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Gontse Mathibedi	System Engineer, Kriel Power Station
Francois du Preez	Corporate Specialist, Generation Engineering
Senamile Nzama	Engineer, Generation Engineering
Thembelani Ndlumbini	Turbine Plant Engineering Manager, Kriel Power Station
Rofhiwa Nelwamondo	Engineering Manager, Kriel Power Station

5. REVISIONS

Date	Rev.	Compiler	Remarks
March 2024	1	G Mathibedi	First Issue

6. DEVELOPMENT TEAM

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

- As above

7. ACKNOWLEDGEMENTS

None

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