

Title: Tender Technical Evaluation Strategy For Kriel Power Station - **Replacement of Secondary cooling pipes in boiler and turbine plant from unit 1 to unit 6.** Unique Identifier: **555-EAP2068**

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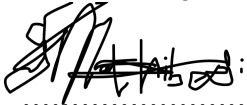
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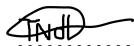
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Compiled by

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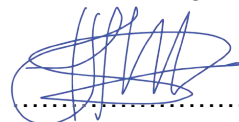
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Functional Responsibility

**T Ndlumbini****Turbine Plant Engineering Manager**

Date: 30/08/2022

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Date: 2022/08/30

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1. INTRODUCTION

This document provides the technical specifications for supply and installation new secondary cooling pipes system for Kriel Power Station. The replacement of the pipes for unit 1 to 6.

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 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] OTP8001: Scope of work to Replacement of Secondary cooling pipes at Kriel Power Station

2.3 DEFINITIONS

2.3.1 Classification

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

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2.4 ABBREVIATIONS

Abbreviation	Description
CW	Cooling water

2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2.

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	Senior Engineer: Kriel Power Station Turbine Engineering
TET 2	Ishfaaq Ramathula	Engineer: Kriel Power Station Turbine Engineering
TET 3	Fulufhelo Mariba	Engineer: Kriel Power Station Turbine Engineering
TET 4	Sindiswa Ndamase	Engineer: Kriel Power Station Turbine 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.	Valid ISO 3834-2 certification for the installation Contractor .	Scope of work, provide ISO certificate	This criteria will be used to ensure that the appointed Contractor has successfully completed work
2.	Two verifiable reference list of previous pipework design, fabrication, and installation with a total of 1 km of pipework.	Approved work orders or box up certificates to be submitted as proof.	This criteria will be used to ensure that the appointed Contractor has successfully completed work

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 **Error! Reference source not found..**

Table 3 shows the scoring matrix that will be used.

Table 3: Qualitative Technical Evaluation Criteria Scoring Matrix

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.		

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA SCORING MATRIX

Table 4: Qualitative Technical Evaluation Criteria

Reference to Technical Specification / Tender Returnable		Scope reference	SCORE				
			Criteria Weighting (%)	0	2	4	5
1.	Method Statement: Emphasis on work execution as per BS EN 13480 - Methodology for fabrication and installation [10%] - Supports survey and installation methodology [10%] - Hot dipped galvanizing methodology [10%]	NEC document Part 3: Scope of Work	30	No method statement plan submitted	method statement submitted but contains major omissions	method statement submitted with minor omissions	Detailed method statement submitted, including all requirements
2.	Quality Control Plan: - Job specific QCP, to include fabrication of pipes, NDT requirements and coating of pipes [5%] - Emphasis of where holding points required [3%] Signature matrix includes, outage coordinator, Eskom QC, Contractor's supervisor, etc. [2%]	NEC document Part 3: Scope of Work	10	No quality control plan submitted	Quality control plan submitted but contains major omissions	Quality control plan submitted with minor omissions	Detailed quality control plan submitted, including all requirements

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3.	Proof of relevant experience on fabrication of pipework, Approved work orders or box up certificates to be submitted as proof.	NEC document Part 3: Scope of Work	40	No references provided	Two (2) or less relevant and verifiable references provided, indicating required information	Four (4) or less relevant and verifiable references provided, indicating required information	Five (5) or more relevant and verifiable references provided, indicating required information
4	Qualification and certification of welders and NDT personnel. Provide proof of verifiable certificate (s) which is recommended by relevant SANS – and issued by a nationally recognised institute as a minimum. Provide CV for proof of experience.	NEC document Part 3: Scope of Work	10	No Experience or CV submitted.	Experience less than 2 years	Experience >2 & < 3 years	Experience > 3 years
5	ECSA certificate for the professional Engineer with experience in pipe design and strength analysis. Provide Cv for the experience.	NEC document Part 3: Scope of Work, Section 3	10	No ECSA certificate provided	Experience less than 2 years	Experience >2 & < 3 years	Experience > 3 years

3.6 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	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.	Submissions with minor deviations
2.	
3.	

Table 7: Unacceptable Technical Risks

Risk	Description
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1.	Less than two completed contracts with a similar scope
2.	No method statement provided
3.	Does not have the relevant skills present in the team as per Employer requirement
4.	

3.7.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
	N/A

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
	N/A

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Gontse Mathibedi	Senior Engineer: Kriel Power Station Turbine Engineering
Ishfaaq Ramathula	Engineer: Kriel Power Station Turbine Engineering
Mershan Reddy	Engineer: Kriel Power Station Turbine Engineering
Sindiswa Ndamase	Engineer: Kriel Power Station Turbine Engineering

5. REVISIONS

Date	Rev.	Compiler	Remarks
August 2022	0	G. Mathibedi	First Issue

6. DEVELOPMENT TEAM

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

- G Mathibedi

7. ACKNOWLEDGEMENTS

None

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