Eskom	Strategy	Engineering

Title: **Repair and Replacement of Refractory on U1 to U6 on 'as-and-when' required basis at Kendal Power Station – Technical Evaluation Strategy**

Unique Identifier:	**XX**
Alternative Reference Number:	**N/A**
Area of Applicability:	**Engineering**
Documentation Type:	**Strategy**
Revision:	**0**
Total Pages:	**11**
Next Review Date:	**N/A**
Disclosure Classification:	**CONTROLLED DISCLOSURE**

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Date: 20/07/2023	Date: 20/07/2023	Date: 14/08/2023

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1. INTRODUCTION

This document details the technical evaluation strategy for the supply of labour, tools, equipment, consumables, supervision, management, logistics, storage and support services for Repair and Replacement of Refractory at Kendal Power Station.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document discusses the different technical aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) for the supply of the supply of labour, tools, equipment, consumables, supervision, management, logistics, storage and support services for Repair and Replacement of Refractory at Kendal Power Station

The team members who will be involved in the evaluation are listed and appointed in this document along with their responsibilities. This document also describes the acceptable and unacceptable risks and qualifications and/or conditions that will be applicable to the supply scope of work. Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without the appropriate authorisations.

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 Kendal 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.

2.2.2 Informative

[2] ISO 9001 Quality Management Systems.

[3] 474-59: Internal Audit Procedure

[4] EAP 0304-1: Required Operational Capability Report

[5] 32-1034: Eskom Procurement Policy and supply chain management policy

[6] 240-53114002: Engineering Change Management Procedure

2.3 DEFINITIONS

2.3.1 Classification

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

2.4 ABBREVIATIONS

Definition	Description
TET	Technical Evaluation Team
OHS Act	Occupational Health & Safety Act
N/A	Not Applicable

2.5 ROLES AND RESPONSIBILITIES

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

2.6 PROCESS FOR MONITORING

The design aspects will be monitored by conducting end of phase design reviews as described in the Eskom design review procedure at assessment completion.

2.7 RELATED/SUPPORTING DOCUMENTS

[1] *1037767: Kendal Power Station Procurement Purchase Requisition Compliance Checklist.

[2] 32-1034: Eskom Procurement and Supply Chain Management Procedure.

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 80%.

3.2 TET MEMBERS

Table 1 below lists the TET members

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Funzeani Tshikalange	System Engineer
TET 2	Tshepo Maema	System Engineer
TET 3	Tendani Rasivhetshele Pr.Eng	Boiler Engineering Manager

3.3 MANDATORY TECHNICAL EVALUATION STRATEGY (GATE KEEPERS)

N/A

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 2: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting %	Criteria Sub Weighting %
1. Experience		15	
1.1. Company's past experience for similar work (submit evidence of completion certificate/offer/contract or order) • ≥4 previous projects = 5 • 2-3 previous projects = 4 • 1 previous project = 2 • None responsive = 0	Provide documentation with the tender returnable		40
1.2. (a) Project management (Provide similar activity program with organogram). (b) Provide a manpower deployment plan for refractory repair and replacement with associated tasks and their owners. • All required documentation submitted and comprehensive = 5 • Almost all required documentation submitted and partially comprehensive = 4 • Partially submitted documentation submitted and not comprehensive = 2 • None responsive = 0	Provide documentation with the tender returnable		60
2. Method Statement		40	
2.1. How the work is to be executed with emphasis on the following: i. How the refractory repair and replacement is to be executed on the different components with emphasis on breaking techniques, mixture ratio, and application techniques.	Provide documentation with the tender returnable		100

ii. Consideration of OSH Act. Of 1993 when executing refractory work on all components. iii. Refractory material containment, extraction/cleaning with consideration for the environment as per ISO14001. iv. Risk assessment for all refractory activities with mitigations on all identified risks. • Method Statement comprehensively satisfies i, ii, iii, and iv =5 • Method Statement satisfies most of i, ii, iii, and iv with minor omissions=4 • Method Statement partially satisfies i, ii, iii, and iv=2 • Non responsive= 0			
3. Knowledge		20	
3.1 Highest qualification Minimum resource requirements to include the following: • Site Manger N6/ National Diploma (Mechanical Engineering) as a minimum • X 1 Quality Control Inspector with an N6/ National Diploma or equivalent and QC certification as a minimum. • X 1 Supervisors with a supervision qualification. • X 5 Semi-skilled refractory workers with Grade 10 or 5 years refractory experience as a minimum. **Note**: All CV's to be accompanied with valid certified copies of Identity Documents and proof of qualifications that are clear and readable.			40
3.2 Related Experience Provide CV with details of company worked for, duration, roles & responsibility and work done. Minimum required experience is as follows: • Site Manager with minimum related experience of 3 years • Quality Control Inspector – minimum of 3 years related experience • Supervisors – minimum of 3 years related experience			60

• Semi-skilled Refractory workers– minimum of 2 years refractory related experience (those with grade 10) or 5 years related experience.			
4. Equipment		15	
4.1. Equipment specification and quantities with certification, refractory material data sheets, and maintenance/inspection records of equipment. Additionally, a site visit will be performed to inspect equipment and demonstration will be required. Provide the following: • Asset register. (Refractory installation related equipment) • Equipment. • Documentation management system. • MSDS for consumables	Provide documentation with the tender returnable		100
5. QA and QCP:		10	
5.1. Supply documented procedures/work instructions/inspection technique sheets that address the following: Internal quality audits, non-conformances, corrective and preventative actions, storage and handling of equipment, QCPs. • All required documentation submitted and comprehensive = 5 • Almost all required documentation submitted and partially comprehensive = 4 • Partially submitted documentation submitted and not comprehensive = 2 • None responsive = 0	Provide documentation with the tender returnable		100
TOTAL		100	
OVERALL MINIMUM THRESHOLD FOR QUALIFICATION		80	

Table 3: Qualitative Technical Evaluation Criteria Scoring

Criteria Number	Score Percentage Description
1.1	0% of weight will be allocated for zero experience, 50% of weight allocated for one order of successful repair and replacement of refractory, 100% of weight allocated for more than one order of successful repair and replacement of refractory.
3	**3.1 Qualifications (Total = 40%)** <u>Site Manager</u> - Does not have the required minimum qualification – 0% - Has the required minimum qualification – 8% <u>Quality Control Inspector</u> - Does not have the required minimum qualification – 0% - Has the required minimum qualification – 8% <u>Supervisors</u> - Supervisors without the requires minimum qualification – 0% - One Supervisor with the required minimum qualifications – 16% <u>Semi-skilled fitters</u> - Semi-skilled fitters with no minimum required qualifications – 0% - At least five semi – skilled with the required minimum qualifications (or experience) – 8% **3.2 Related Experience (Total = 60%)** <u>Site Manager</u> - Site Manager related experience < 3 years – 0% - Site Manager experience ≥ to 3 years– 12% <u>Quality Control Inspector</u> - No Related experience for Quality Control Inspector – 0% - Related experience for Quality Control Inspector ≥ 3 years – 12% <u>Supervisors</u>

	- Supervisor related experience less than 5 years – 0% - one Supervisor with related experience ≥ 5 years – 24% <u>Semiskilled fitters</u> - Less than 5 semi-skilled fitters with the required minimum experience – 0% - At least 5 semi-skilled fitters with the required minimum experience – 12%
4.1	**5 (100% of weight) COMPLIANT** • Meet technical requirement(s) AND; • No foreseen technical risk(s) in meeting technical requirements. **4 (75% of weight) COMPLIANT WITH ASSOCIATED QUALIFICATIONS** • Meet technical requirement(s) with; • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions. **2 (40% of weight) NON-COMPLIANT** • Does not meet technical requirement(s) AND/OR; • Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions. **0 (0% of weight) TOTALLY DEFICIENT OR NON-RESPONSIVE**

Table 4: TET Member Responsibilities

Mandatory Criteria Number	**TET 1**	**TET 2**	**TET 3**
-	-	-	-
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

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Tendani Rasivhetshele	Boiler Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2023	N/A	F Tshikalange	Document was compiled for evaluating Kendal Power Station Repair and Replacement of Refractory at Kendal Power Station.

6. DEVELOPMENT TEAM

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

- Funzeani Tshikalange

7. ACKNOWLEDGEMENTS

N/A