

	Strategy	Generation Engineering
---	-----------------	-------------------------------

Title: **Technical Evaluation Strategy for Tiling of the Milling Plant and related components**

Unique Identifier:

Alternative Reference Number: **N/A**

Area of Applicability: **Hendrina Power Station**

Documentation Type: **Strategy**

Revision: **0**

Total Pages: **12**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

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	4
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES.....	4
2.6 PROCESS FOR MONITORING.....	4
2.7 RELATED/SUPPORTING DOCUMENTS.....	4
3. TENDER TECHNICAL EVALUATION STRATEGY.....	4
3.1 TECHNICAL EVALUATION THRESHOLD	4
3.2 TET MEMBERS	4
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	5
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA.....	6
3.5 TET MEMBER RESPONSIBILITIES.....	9
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS.....	10
3.6.1 Risks	10
3.6.2 Exceptions / Conditions	11
4. AUTHORISATION	12
5. REVISIONS.....	12
6. DEVELOPMENT TEAM.....	12
7. ACKNOWLEDGEMENTS.....	12

TABLES

Table 1: TET Members.....	4
Table 2: Mandatory Technical Evaluation Criteria.....	5
Table 3: Qualitative Technical Evaluation Criteria.....	6
Table 4: TET Member Responsibilities.....	9
Table 5: Acceptable Technical Risks.....	10
Table 6: Unacceptable Technical Risks	10
Table 7: Acceptable Technical Exceptions / Conditions.....	11
Table 8: Unacceptable Technical Exceptions / Conditions.....	11

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

1. INTRODUCTION

This document defines the technical evaluation strategy to be used by the evaluating team using the open tender process. The Technical Evaluation Strategy (TES) for this contract covers the tiling for the milling plant and related components at Hendrina Power Station.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document applies to the supply and tiling services at Hendrina Power Station, which includes but is not limited to:

- Mills.
- Mill Casing
- Riffle box Burner Nests
- PF pipes
- Coal Chutes
- Other milling plant components

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 is applicable to all relevant stakeholders at Hendrina Power Station who are involved with the technical tender evaluation process for the milling plant maintenance service contract.

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
- [2] ISO 9001 Quality Management Systems
- [3] 32-1034: Eskom Procurement and Supply Chain Management Procedure
- [4] 32-1033: Eskom's Procurement and Supply Chain Management Policy
- [5] 240-56239143: Ceramic Lined Pulverised Fuel Pipework Standard

2.2.2 Informative

Not applicable

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

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
PF/pf	Pulverised Fuel
PA	Primary Air
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation

2.6 PROCESS FOR MONITORING

Not applicable.

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable.

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%.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

3.2 MANDATORY 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.	N/A		

3.3 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Ability of company to execute			35	
	1.1	Previous experience tiling coal mills or PF pipes.	Copies of Contracts or purchase orders for vertical spindle coal mills and related components tiling services. Total combined duration of tiling services will be used, whether purchase orders or contracts. Durations that don't match the SOW may be discarded or a more appropriate estimate made.	0 (0%) Total duration Durations of previous tiling contract (0-2 years) 2 (40%) Total Durations of previous tiling contracts (2- 3 years) 4 (80%) Total Duration of previous tiling contracts (3-5 years) 5 (100%) Total Duration of previous tiling contracts (greater 5 years)	100
2.	QCP from previous mills maintenance services			10	
	2.1	– Relevant fully signed off QCP documents for the various components likely to be encountered.	– Copy of a signed off QCP by all relevant parties for a vertical spindle coal mill casing tiling. – Copy of a signed off QCP by all relevant parties for a vertical spindle coal mill classifier tiling. – Copy of a signed off QCP by all relevant parties for PF pipes and PF pipes bends tiling. – Copy of a signed off QCP by all relevant parties for Riffle box tiling. – Copy of a signed off QCP by all relevant parties of coal chute tiling	0 (0%) Non-responsive OR no fully signed QCPs. 2 (40%) Fully signed QCP for 1-3 types of components. 4 (80%) Fully signed QCP for 4 types of components. 5 (100%) Fully signed QCP for 5 types of components.	100

Technical Evaluation Strategy for Tiling of the Milling Plant and related components Unique Identifier:

Revision: **0**
Page: **7 of 9**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
3.	Work Execution Plan			35	
	3.1	A detailed methodology indicating how the scope of work will be carried out. The detailed methodology must cover inspections and tiling of the various components, and labour requirements (types and quantity) for activities.	- Detailed methodology detailing common activities encountered in the tiling of the various components. 1. Refer to the coal Chutes, Cones, burner components, PA tubes, Core air tubes and Burner boxes. 2. How the profile and sizing of ceramic lining will be determined in relation to the component to be internally or externally lined in so far as conical chutes with circular and rectangular cross-sections, bends, square to round transition pieces and straight pipes. 3. How the partial loss of ceramic lining will be dealt with when the exposed metal parts are already eroded and irregular or uneven . 4. How the preparation of surfaces will be dealt with prior to the installation of ceramic lining, the methodology should cater for scenarios for eroded and hardened old grout. - Organogram or list detailing adequate manpower requirements for the duration of the contract based on the scope of work.	0 (0%) Non-responsive OR deliverable does not cover any requirements. 2 (40%) Detailed plan covering 1-3 activities + detail of all required site personnel 4 (80%) Detailed plan covering 4 activities + detail of all required site personnel 5 (100%) Detailed plan covering 5 or more activities + detail of all required site personnel.	100

Technical Evaluation Strategy for Tiling of the Milling Plant and related components Unique Identifier:

Revision: **0**
Page: **8 of 9**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
4.	Human Resources Verification			20	
	4.1	Supervisor	– Engineering National Diploma in mechanical engineering or higher qualification. – Supervisory experience of at least 3 years. – CV with 3 Years Supervisory Experience and background in mechanical maintenance or tiling work.	0 (0%) Non-responsive OR Engineering qualification less than National Diploma. 2 (40%) Engineering Qualification National Diploma or higher + supervisory experience less than 3 years. 4 (80%) Engineering Qualification National Diploma or higher + supervisory experience less than 5 years. 5 (100%) Engineering Qualification National Diploma or higher + supervisory experience 5 years or more.	60
	4.2	Refractory Technician (number as per work execution plan)	– Refractory Technician or Bricklayer Trade Test Certificate – Grade 12 Certificate – CV with 3 Years Tiling Experience	0 (0%) Non-responsive or not applicable. 2 (40%) Grade 12 + relevant certification. 4 (80%) Grade 12 + relevant certification + relevant experience less than 3 years. 5 (100%) Grade 12 + Rigging certification + Rigging experience greater than 3 years.	40
				TOTAL: 100	

* All artisans must be authorized as per the Plant Safety Regulations and Fossil Fuel Firing Regulations, within a period of 3 months of start of contract.

