

Title: **Tender Technical Evaluation
Strategy for Tutuka Power
Station Ash Plant Maintenance
Work.**

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1. INTRODUCTION

The Ash Plant is designed to handle the coarse and fly ash from six boilers to the ash disposal site at Tutuka Power Station. The ash plant scope of handling covers all units from unit 1 to 6 and the common inside ash plant at the Power Station and the ash disposal plant on the ash dump. The maintenance of the ash plant is to ensure that the plant remains reliability, available and maintainable in all times during the station life. The maintenance philosophy of the plant requires the preventative maintenance, inspections, plant repairs and other activities to be conducted to preserve the condition of the plant.

1.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for Tutuka Power Station Ash Plant maintenance work. The required work is for the service provider to be able to conduct and perform maintenance activities, which are based on daily inspections and required PMs.

1.1.1 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.

1.1.2 Applicability

This document applies to the Tender Evaluation Team for the Tutuka Power Station chain supplies.

1.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

1.2.1 Normative

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] 240-48929482: Tender Technical Evaluation scoring form template

1.2.2 Informative

N/A

1.3 DEFINITIONS

1.3.1 Classification

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

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1.4 ABBREVIATIONS

Abbreviation	Description
DHP	Dust Handling Plant
EDWL	Engineering Design Work Lead
C&I	Control and instrumentation
ISO	International Standard Organisation
PEIC	Production Engineering Integration Coal
NDC	New Denmark Colliery
LDE	Lead Discipline Engineer
SHEQ	Safety, Health, Environment and Quality
TET	Technical Evaluation Team

1.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

1.6 PROCESS FOR MONITORING

N/A

1.7 RELATED/SUPPORTING DOCUMENTS

None

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2. TENDER TECHNICAL EVALUATION STRATEGY

2.1 TECHNICAL EVALUATION METHOD

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 80% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

- a) Technical: 100%

The evaluation of the tender submission will be based on the tenderer’s ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer’s requirements.

The scoring method will be as follows:

SCORE	PERCENTAGE	DESCRIPTION
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

The evaluation scores will be weighted as follows according to disciplines:

Technical (100%)	
Inspect, remove damaged parts and repair old fluid coupling	100%
	100%
Project Management (N/A)	
TOTAL (100%)	
Overall minimum threshold for qualification (80%)	

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2.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

2.3 TET MEMBERS

Table 1: TET Members

TET number : Section to be evaluated	TET Member Name	Designation
TET 1	Thabelo Mamphogoro	System Engineer
TET 2	Rhulani Lowani	Maintenance Manager
TET 3	Elvis Maremene	Technical Plant Owner

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2.4 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory technical evaluation

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Proven maintenance and repair experience in ash plant (fly ash and bottom ash conveying system) including proven maintenance of the ash stacking machines.	Previous work conducted and mechanical workshop proof of address	To ensure that company is competent to conduct maintenance activities.

2.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

Item	Total weight (%)	Sub Item	Weighting (%)	SCORE = 0 (0% - Totally Deficient or Non-Responsive)	SCORE = 2 (40% Generally Non-Compliant)	SCORE = 4 (80% Compliant with Associated Qualifications)	SCORE = 5 (100% Meet Technical Requirement and No Foreseen Risk)	Score in %
Company Profile	15%	Proof of Previous Contract/ Job with similar Scope on the Ash Plant	10%	Non Submission 0			Submitted 5	
		Organogram with all key members	2%	Non Submission 0			Submitted 5	
		Company's minimum of two (2) contactable reference in industrial Plant Maintenance	3%	Non Submission 0			Submitted 5	

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<p>Comprehensive Project Execution Plan (Method Statement should contain how the work is going to be done)</p>	<p>40%</p>	<p>Supply a letter of undertaking that the contractor does have the correct tools and equipment to perform the activity, Contractor also to provide a list of tools and equipment that is registered on the Company Register</p>	<p>20%</p>	<p>0 = No detail Method Statement covering Scope issued</p>	<p>2 = In Sufficient Method Statement for the Scope Issued</p>	<p>4 = Sufficient Method Statement covering 95% of the Scope Issued</p>	<p>5 = Adequate Method Statement covering 100% Scope Issued</p>	
		<p>QCP's and certified letters to be provided for proof of previous similar activities done with references of previous activities done. This must be based on the Scope submitted</p>	<p>20%</p>	<p>0 = No detail Method Statement covering Scope issued</p>	<p>2 = In Sufficient Method Statement for the Scope Issued</p>	<p>4 = Sufficient Method Statement covering 95% of the Scope Issued</p>	<p>5 = Adequate Method Statement covering 100% Scope Issued</p>	

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CV of key contract resources	45%	Site Manager	10%	0 = No Submission	2 = CV + ND (S4) Plus 2 year Experience	4 = CV + National Diploma (S4) plus 3 year Experience	5 = CV + ND (S4) Plus more than 3 years' Experience	
		Supervisor	10%	0 = No Submission	2 = CV + ND (N6) Plus 2 year Experience	4 = CV + ND (N6) Plus 3 year Experience	5 = CV + N D (N6) more than 5 years'	
		Artisans (Fitters/Rigger/Boiler Maker/Welder)	15%	0 = No Submission	2 = CV + N4 + Trade Test Plus 2 year Experience	4 = CV + N4 + Trade Test Plus 3 years' Experience	5 = CV + N4 + Trade Test Plus more than 3 years' Experience with PSR Authorization (3 Artisan)	
		Safety Officer	5%	0 = No Submission	2 = CV + ND Safety Management Plus 2 Years' Experience	4 = CV+ ND Safety Management Plus 3 Years' Experience	5 = CV + ND Safety Management with SAMTRAC Plus 3 year Experience	
		Semi - Skilled	5%	0 = No Submission	2 = CV + Gr12 Plus 2 year Experience	4 = CV + N3 Plus 3 year Experience	5 = CV + N3 + more than 3 year Experience.	

2.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4
1.				
1.1	X	X	X	X
1.2	X	X	X	X
1.3	X	X	X	X
1.4	X	X	X	X
1.5	X	X	X	X

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2.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

2.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	N/A
2.	N/A

Table 6: Unacceptable Technical Risks

Risk	Description
1.	The company that does not have experience in maintenance of ash plant
2.	Inexperience team
3.	N/A
4.	N/A

2.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	The proof of working in the similar systems that contain conveyors and similar product like fly ash and coarse ash.

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Zero experience in dealing with conveyors.

3. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Egard van Rensburg	Auxiliary Engineering	
Monyane Mokoena	Auxiliary Engineering Manager	
Rhulani Lowani	Ash Plant Maintenance manager	

4. REVISIONS

Date	Rev.	Compiler	Remarks
November 2020	0.1	T Mamphogoro	Draft document for comment
November 2020	1	T Mamphogoro	Approval

5. DEVELOPMENT TEAM

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

- Thabelo Mamphogoro

6. ACKNOWLEDGEMENTS

N/A

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