



Strategy

Engineering

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Strategy for Duvha Power
Station Turbine Plant Coating**

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1. INTRODUCTION

The Duvha Power Station is situated approximately 15 kilometres from the town of Witbank in Mpumalanga. Access to the station is by road. The Power Station comprises of 6 x 600 MW turbo-generator boiler units.

Various coating and painting is required during outage opportunities as corrosion protection or general upkeep of the plant, specifically within the Turbine plant area.

2. SUPPORTING CLAUSES

2.1 SCOPE

The works is for the specialized painting/coating of various oil tanks, coolers and water boxes on the turbine plant as well as floor and handrails. Prices quoted will be per m² of area coated.

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 shall apply to Duvha 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.

- [1] 240-48929482 Tender Technical Evaluation Procedure
- [2] 240-163544997 Duvha Power Station Turbine Plant Coating and Painting Works Information

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2.3 DEFINITIONS

Definition	Description
Data sheet	A data sheet is a document supplied by the OEM that states all the technical information regarding the supplied component.
Contractor	The coating applicator or Contractor having the main Contractual responsibility to Eskom.
Coat/coating/film	A continuous film of paint resulting from a single application on the outer surface of a component.
Coating/paint system	"Coating/paint system" is an all-embracing term including method and degree of surface preparation, generic type, thickness and number of coats and the method of application of the coats.
External	The outside of a specified component, normally the dry side
Internal	The inside of a specified component, normally the wetted side
Organogram	Chart that represents the organizational structure of different departments within a company

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
ISO	International Organization for Standardization
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

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3. TENDER TECHNICAL EVALUATIONSTRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

- The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%. Should no Contractor meet the minimum threshold of 70% Eskom reserves the right to negotiate and/or consider Contractors that obtained between 65% and 69%.
- If any technically unacceptable deviations or exclusions are listed in the tender, the tender will be deemed as an alternative tender and considered to be non-responsive and it shall not be evaluated. No alternative tenders are allowed. If no technical deviations are mentioned in the tender it will be assumed that the Contractor shall fully comply with the scope of work.
- If the tender returnables are not provided the scoring for the specific criteria shall be zero as described in Table 1: Scoring of Qualitative Criteria. If the mandatory requirements are not submitted the tender shall be seen as non-responsive.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1		Senior Engineer
TET 2		Senior Engineer
TET 3		Chief Engineer
TET 4		System Engineer

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

NOTE: The Mandatory Criteria set out in Table 2 below must be met first. Suppliers who fail to meet these criteria will be disqualified and not be considered further for this evaluation.

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Motivation for use of criteria
1.	Provides demonstrable evidence that key personnel working for the applicator, which shall be responsible for the coating of the waterboxes, have previously successfully, coated power plant main turbine condenser waterboxes of a similar size in the previous 2 years. Proof of at least four condenser waterboxes needs to be provided. Acceptable proof: Eskom contract manager contact details and close out report	To ensure high quality of workmanship
2.	Proof of valid ISO 9001 Certification	To ensure document traceability

3.4 TECHNICAL EVALUATION CRITERIA

The following section will be scored as detailed in the tables below

Table 3: Qualitative Evaluation Criteria Scoring Table

Score	(%)	Definition
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 Meet technical requirement(s) with; <ul style="list-style-type: none">• 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

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference	Criteria Weighting (%)
1	Document Requirements relative to the scope of work			
	1.1	The method statement for surface preparation and application of coating of the waterboxes shall include, but not limited to, dust management, soluble salt measurement and control, storage of grit, curing times, prevention of grit and coating material from entering tube ends and prevention of spent grit from entering drains and vents.	Works information - Section 3.2	30
	1.2	The method statement for surface preparation and application of coating of a lube oil tank shall include, but not limited to, dust management, storage of grit, curing times, prevention of grit and coating material from entering the tanks and prevention of spent grit from entering the turbine hall.	Works information - Section 3.1	30
	1.3	Supply a company organogram showing site management as a minimum.		5
	1.4	Supply the latest revision of the specified material product data sheets and material safety data sheets for all applications mentioned in the scope.		5
	1.5	Non-adherence to the scope of work must be stipulated. Full adherence to the scope of work must be stated. Any technical deviations shall be clearly indicated.		30
				TOTAL: 100

3.5 TET MEMBER RESPONSIBILITIES

Table 5: 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	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

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	
2.	
3.	
4.	

Table 7: Unacceptable Technical Risks

Risk	Description
1.	No method statement supplied
2.	Insufficient coating experience
3.	Dust entering the turbine hall during blasting

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	All requirements must be adhered to.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
	Turbine Engineering Manager
	Chief Engineer
	Senior Engineer
	System Engineer
	System Engineer

5. REVISIONS

Date	Rev.	Compiler	Remarks
May 2021	1		First Draft
Nov 2021	2		Added acceptable proof to Table 2

6. ACKNOWLEDGEMENTS

Not Applicable

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