Eskom	Strategy	Matla Power Station Generation

Title	**Tender Technical Evaluation Strategy – Matla unit 1 to unit 6 Main and BFPT Condenser, Various Turbine Coolers, and screens HP Cleaning and Screens inspections and Repairs**	Unique Identifier	
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1. INTRODUCTION

Matla Power Station is intending to request *Contractors* to tender for HP cleaning of Main and BFPT condensers, Turbine oil coolers and EFP oil coolers and inspection and refurbishment of main and BFPT Screens

2. SUPPORTING CLAUSES

2.1 SCOPE

- HP cleaning of Main and BFPT condensers,
- HP cleaning of Turbine oil coolers,
- HP cleaning of EFP oil coolers,
- Inspection and refurbishment of main and BFPT Screens

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

Applicable to Matla 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

2.3 DEFINITIONS

None

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
QC	Quality Control
QCP	Quality Control Plan
BFPT	*Boiler Feed Pump Turbine*

Abbreviation	Description
EFP	Electric Feed Pump
HP	High pressure
CE	European Economic Area Conformity Marking
HPWJ	High Pressure Water Jetting Pressure from 700 – 1700 bar
ID	Internal Diameter
OD	Outside Diameter
psi	Pounds per Square inch
QCP	Quality Control Plan
WJA	Water Jetting Association UK
WJTA	Water Jet Technology Association

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

Tender Technical Evaluation Scoring Form

3. TENDER TECHNCIAL EVALAUTION 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	Thandeka Mkhonza	System Engineer (Turbine)
TET 2	Onkokame Setidisho	System Engineer (Turbine)
TET 3	Collins Phooko	System Engineer (Turbine)

3.3 MANDATORY EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Evaluation Criteria	Reference to Technical Specifications	Motivation and Comments
	N/A		

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

KPA - Area of Evaluation	Weight (%)	KPI - Criteria Evaluation Indicator	Minimum Criteria Evaluation Requirements	Source	Unit	Scale				Score	TOTAL RATING
Company Technical resources availability (Human)	10%	Experience	• Project / site manager / accountable person with 2 years minimum relevant experience (incl CV) or Supervisor with 2 years minimum relevant experience (incl CV)	CV including technical qualifications /Experience and employment	%	*No evidence of the recognized certificate to operate the high-pressure water jetting equipment =0%*	*Experienced Project / site manager /supervisor and less than 2 years' experience in said position (incl CV) =40%*	*Experienced Project / site manager /supervisor and 2-3years experience in said position (incl CV= 80%*	Experienced Project / site manager /supervisor with 3-+ years in said position(incl CV= *100%*		
Company Technical resources availability (Human)	10%	Technical resources	8x High Pressure Wash Jet (HPWJ) Machine Operators with 2 years minimum relevant working experience and trained and certified by an independent affiliate WJA or WJTA	The qualifications and experience of the resources (CV)shall demonstrate reasonable knowledge in the field of (HPWJ) All resources shall have a minimum of 2 years working experience in HPWJ Operators shall submit the certificates of operating the HPWJ issued by an independent affiliate WJA or WJTA	%	*Not submitted= 0%*	4 trained certified operators with 2 years minimum relevant experience in HPWJ (incl CV) = *40%*	*4 trained certified operators with 2-3 years minimum relevant experience in HPWJ (incl CV) = 80%*	*4 trained certified operators with 3-4years minimum relevant experience in HPWJ (incl CV) = 100%*		
Company Capability (5 1 3)	*20%*	*Experience*	*Verifiable Reference list HPWJ cleaning (minimum of 500 bar working pressure) of industrial heat exchangers in the last 5 years Verifiable references of at least 3 shell and tube heat exchanger projects successfully conducted in the past 5 years*	*Reference list of works executed where HPWJ was done list must contain - contact details of where previous works was completed, and the scope of work performed with cleaning pressures and heat exchangers detailed*		Did not submit information of previous work on HPWJ=0%	Verifiable references of at least 3 shell and tube heat exchanger projects successfully conducted in the past 5 years at a minimum of less than required 300 -499 bar in the past 5 years= *40%*	Verifiable references of at least 3 shell and tube heat exchanger projects successfully conducted in the past 5 years a minimum of 500-699 bar = *80%*	Verifiable references of at least 3 shell and tube heat exchanger projects successfully conducted in the past 5 years at a minimum of 700-1000 bar = *100%*		

Pumps and Hoses technical details and compliance level to the HPWJ specification 5 1 7 & 5 1 8 &5 1 9	40%	Resources	The contractor shall submit the technical datasheets for the HPWJ pumps to be used onsite The details of the cleaning components connected on the pumps shall be submitted in the schematic format for evaluation The technical details (flow rates at 1000 bar and pressure ratings) of each component connected on the pump shall be submitted for evaluation Components to be evaluated for compliance are the following a) HPWJ pumps capacity and total number to be available on site b) Number of nozzles connected on each pump	Pumps and compon ents informati on's shall be evaluate d against the specifica tion 240-1076779 40 for complia nce		The supplier did not submit the relevant information, or submitted information does not meet requirement as stipulated in section 4 5 =0%	The submitted technical datasheets of the pumps, hoses and foot valves as well as the proposed connection setup is fully compliant to the specification 240-107677940 section 4 5 the minimum nozzle flow rate shall be 50 litre/min at 1 000 bar working pressure with a minimum of a) HPWJ pumps with 1000 bar capacity 3 off for main condenser and 1 off on BFPT condenser b) Number of nozzles connected on main condenser to be 3 off and 1 off on the BFPT condenser = 40%	The submitted technical datasheets of the pumps, hoses and foot valves as well as the proposed connection setup is fully compliant to the specification 240-107677940 section 4 5 the minimum nozzle flow rate shall be 50 litre/min at 1 000 bar working pressure with a minimum of a) HPWJ pumps with 1000 bar capacity 4 off for main condenser and 1 off on BFPT condenser b) Number of nozzles connected on main condenser to be 4 off and 2 off on the BFPT condenser = 80%	The submitted technical datasheets of the pumps, hoses and foot valves as well as the proposed connection setup is fully compliant to the specification 240-107677940 section 4 5 the minimum nozzle flow rate shall be 50 litre/min at 1 000 bar working pressure with a minimum of a) HPWJ pumps with 1000 bar capacity 5 off for main condenser and 2 off on BFPT condenser b) Number of nozzles connected on main condenser to be 5 off and 3 off on the BFPT condenser = 100%		

3.5 TET MEMBER

RESPONSIBILITIES Table 4:

TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
1	X	X
2	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**
1	X	X
2	X	X
3	X	X
4	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1	N/A

4	
5	
6	

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1	N/A
2	
3	
4	
5	
6	
7	

4. AUTHORISATION

This document has been seen and accepted by

Name	Designation	Signature
Lindokuhle Ngobese	Acting Engineering Manager	

5. REVISIONS

Date	Rev.	Compiler	Remarks
27 October 2022	0	T Mkhonza	Original document

6. DEVELOPMENT TEAM

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

- T Mkhonza

7. ACKNOWLEDGEMENTS

None