

	Strategy	Engineering
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Title: **Tender Technical Evaluation
Strategy – Submerged Scraper
Conveyor (SSC) Drives Gearbox
Replacement.**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Strategy**

Revision: **2.0**

Total Pages: **14**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED
DISCLOSURE**

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Date: 2026/06/30	Date: 2026/06/30	Date: 2026/07/03

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1. INTRODUCTION

Matimba Power Station is designed to have the SSC employed underneath the boiler for the purpose of boiler bottom ash (BBA) and slag removal, as well as furnace sealing. SSCs are driven by an input gearbox which is directly connected to the first reduction gearbox, the variable speed drive links these gearboxes to the electric motor. This drive assembly is supplied by PIV Gearboxes and Drives and produces 75 000 Nm of torque.

The failure rate of these drives is high and has resulted in UCLF being incurred by the station. Secondly, these drives have a long lead time resulting in the plant running at risk when spares are exhausted, and a failure occurs. Finally, these drives have reached the end of their life cycle, usually failing with no notice and the condition monitoring systems onsite struggle to obtain accurate readings.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope in this Tender Technical Evaluation Strategy covers the technical requirements that will be applied during the technical evaluations phase of the tender to guide in evaluating the proposals received from the market to appoint the suitable contractor to design and install submerged scraper conveyor drives gearbox replacement.

Technical Evaluation Strategy (TTES) defines the following with regards to this works:

- Qualitative Evaluation Criteria
- Technical Evaluation Team (TET) Member Responsibilities
- Acceptable / Unacceptable Qualifications

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the 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 the Matimba Power Station Submerged Scraper Conveyor (SSC) Drives Gearbox Replacement.

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] ISO 9001 Quality Management Systems.

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2.2.2 Informative

[3] 240-53716726: Tender Technical Evaluation Scoring Form Template.

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
BBA	Boiler Bottom Ash
ISO	International Organization for Standards
PIV	Positive Infinitely Variable
QCP	Quality control plan
SSC	Submerged Scraper Conveyor
TET	Technical evaluation Team
TTES	Tender technical evaluation strategy
UCLF	Unplanned capability loss factor

2.5 ROLES AND RESPONSIBILITIES

The Technical Evaluation Team (TET) will be responsible for setting up the technical evaluation criteria and evaluating the bidding candidates' submissions. The TET will perform their duty as prescribed and dictated by the guidelines of the Eskom's Tender Evaluation Procedure with the intent of appointing a competent contractor to execute the works.

Below are some of the key roles and responsibilities as prescribed in the Tender Technical Evaluation Procedure:

- **Engineering Manager:** All Engineering Managers throughout Eskom shall ensure that all staff, in their respective areas understand and adhere to this procedure.
- **Technical Evaluation Team (TET):** The delegated engineers/technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy.

2.6 PROCESS FOR MONITORING

The TET will perform their evaluations and provide their recommendations as per the Eskom's Tender Evaluation Procedure.

2.7 RELATED/SUPPORTING DOCUMENTS

Not Applicable

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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	Sizwe Buthelezi	Mechanical Engineer
TET 2	David Du Plessis	Mechanical Engineer
TET 3	Wandile Mjuqu	Electrical System Engineer
TET 4	Boleo Lesejane	Electrical System Engineer
TET 5	Vukani Gebashe	C&I System Engineer

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3.3 MANADATORY 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.	All (Mechanical, Electrical and C&I) discipline engineers are required to be professionally recognised/registered engineer/technologist with ECSA.	Provide valid ECSA certification.	Design Integrity (requirement for all individuals performing engineering design work).

3.4 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.	Company's Capacity to execute the works			40		
	1.1	Related Experience	The contractor must have successfully completed projects of similar scope of work. In the case of Joint venture, a letter of agreement and clearly indicate all the details. Proof to be submitted as follows: - Project name - Project Description - Signed Certificate of completion	Proof submitted indicating 5 or more successfully completed hydraulic drives projects.	5	40
				Proof submitted indicating 3 to 4 successfully completed hydraulic drives projects.	4	
				Proof submitted indicating 1 to 2 successfully completed hydraulic drives projects.	2	
				Not submitted, Experience not relevant or satisfactory.	0	

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2.	Method statements				55		
	2.1		2.1.1	Method statement clearly demonstrate compliance with the full scope of works as detailed in the works information. Method statement must include but not limited: • Drive solution including (CAD 3D model, schematics, technical specification, and bill of material. • Installation, Safety & Environment, Testing and commissioning	Method Statement(s) demonstrates good understanding of the scope of work and meet technical requirement(s), safety, and environment.	5	15
					Method statement(s) has partial limitation /partial understanding of the scope ofwork.	4	
					Method Statements lack details and doesnot meet technical requirement(s),safety and environment.	2	
					No method statement submitted.	0	
			2.1.2	Provide CV's and qualification of Key Resources personnel for electrical works. • Pr Eng Mechanical Engineer • Site Manager • Safety officer • Mechanical Fitter • Quality Control Inspector • Rigger	Mechanical registered engineer or Technologist with 7 or more years design experience.	5	4
					Mechanical registered engineer or Technologist with 4 to 6 years design experience.	4	
					Mechanical registered engineer or Technologist with a 2 to 3 years design experience.	2	
					No submission or not relevant experience	0	

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					Site Manager with 6 or more years relevant experience.	5	3
					Site Manager with 4 to 5 years relevant experience.	4	
					Site Manager with 2 to 3 years relevant experience.	2	
					No submission or not relevant experience	0	
					Safety Officer with 6 or more years relevant experience.	5	2
					Safety Officer with 4 to 5 years relevant experience.	4	
					Safety Officer with 2 to 3 years relevant experience.	2	
					No submission or not relevant experience	0	
					Qualified Mechanical Fitter with 7 or more years relevant experience.	5	2
					Qualified Mechanical Fitter with 4 to 6 years relevant experience.	4	
					Qualified Mechanical Fitter with 2 to 4 years relevant experience.	2	
					No submission or not relevant experience	0	

					Quality Control Inspector with 6 or more years relevant experience.	5	2
					Quality Control Inspector with 4 to 5 years relevant experience.	4	
					Quality Control Inspector with 2 to 3 years relevant experience.	2	
					No submission or not relevant experience	0	
					Rigger with a minimum of 6 or more years relevant experience.	5	2
					Rigger with 4 to 5 years relevant experience.	4	
					Rigger with 2 to 3 years relevant experience.	2	
					No submission or not relevant experience	0	
	2.2	Electrical works	2.2.1	Method statement clearly demonstrate compliance with the full scope of works as detailed in the works information. Method statement must include but not limited: Concept/Basic Design, electrical connection diagram and electrical interface.	Method Statement(s) demonstrates good understanding of the scope of work.	5	5
					The method statement submitted explains how some of the activities on the scope will be executed but not all of them.	4	
					The method statement provided is not applicable to the scope or refers to other work or work done in the past.	2	
					No method statement submitted.	0	

			2.2.2	CV's and qualification of Key Resources personnel for electrical works. - ESCA Professional registered Electrical Engineer - Installation Electrician	Both electrical key personnel CVs and qualification submitted with 5 or more years' experience in similar works	5	5
				Both electrical key personnel CVs and qualification submitted with 3 to 4 years' experience in similar works	4		
				Both electrical key personnel CVs and qualification submitted with 1 to 2 years' experience in similar works	2		
				No submission or submitted with deviations	0		
	2.3	C&I works	2.3.1	Method statement for execution of the C&I works	1. Method statement detailing how Control System IO Allocation and HMI will be executed on Teleperm ME & Teleperm XP. and 2. Method statement detailing how Field Instrument, Control Panel, Black box interface, Splitter Box, Junction Box, Cabling and racking works will be executed. and 3. Verifiable experience with Control and Instrumentation Project on Siemens DCS.	5	10
				Method statement detailing how the work will be executed showing a thorough understanding of C&I Scope of the works.	4		
				Method statement detailing a high-level Control System concept.	2		
				No Submission	0		

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			2.3.2	CV's and qualification of Key Resources personnel for C&I works	ECSA Professionally registered Control and Instrumentation Engineer or Technologist with at least 5 or more similarverifiable Project work Experience, Technician with relevant Project experience and Artisan with Trade Test.	5	5
					ECSA Professionally registered Control and Instrumentation Engineer or Technologist with 3 to 4 years verifiable Project work Experience, Technician with relevant experience andArtisan with Trade Test.	4	
					ECSA Candidate C&I Engineer or Technologist with similar 1 to 2 Project work Experience, Technician with relevant experience and Artisan with Trade Test.	2	
					No Submission	0	
3.	Project Schedule				5		
	3.1	Project Schedule		Tenderer to provide a detailed project schedule/program that indicates critical project milestones and durations of all project work to be done by the contractor and the work covered by the contract that is being done by the subcontractors if any.	Detailed project schedule submitted that indicates critical project milestones and durations.	5	5
					Standard project schedule submitted that indicates project activities and durations.	4	
					Project schedule not submitted, or schedule is not relevant to the scope.	0	

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				TOTAL: 100	
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3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1.	X	X	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1.						
1.1	X	X				
1.2	X	X				
2.						
2.1.						
2.1.1.	X	X				
2.1.2.	X	X				
2.2.						
2.2.1.			X	X		
2.2.2.			X	X		
2.3.						
2.3.1					X	X
2.3.2					X	X
3.						

3.1	X	X				
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3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Company's experience related to other plant system hydraulic drives.
2.	

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Exclusions of scope specified in the employer's requirements.

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Accept deviation with technical qualification

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualification not accepted

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Sizwe Buthelezi	SSC System Engineer
Tshegofatso Modiba	Coal Plant System Engineer
Wandile Mjuqu	Electrical System Engineer
Boleo Lesejane	Electrical System Engineer
Vukani Gebashe	C&I System Engineer
Gift Nkuna	Auxiliary Engineering Manager
Jacky Mathobela	Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2024	1.0	SM Buthelezi	Final Document
June 2026	2.0	SM Buthelezi	Addition of Mandatory Requirements and electrical resources.

6. DEVELOPMENT TEAM

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

- Sizwe Buthelezi
- Wandile Mjuqu
- Vukani Gebashe

7. ACKNOWLEDGEMENTS

N/A