Eskom	Strategy	Engineering

Title:	**Contract: Rubber lining of pipes & vessels on as and when required basis for Duvha Power Station for a period of 5 years - Technical Evaluation Strategy**	Unique Identifier:	**N/A**
		Alternative Reference Number:	**N/A**
		Area of Applicability:	**Engineering**
		Documentation Type:	**Strategy**
		Revision:	**0**
		Total Pages:	**11**
		Next Review Date:	**N/A**
		Disclosure Classification:	**CONTROLLED DISCLOSURE**

Compiled by	Supported by	Functional Responsibility
.....	.....	.....
Sonwabo Xaba	**Yamkela Mgwebi**	**Tembeka Tshamano**
Senior Advisor	**System Engineer**	**Manager Technical Support**
Date: 2026/10/06	Date: 2026/10/06	Date: 2026/10/07

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1. INTRODUCTION

Rubber lining of pipes & vessels at Duvha Power Station. Rubber lining includes, inspecting, testing, rubber removal, sand blasting, rubber lining patch repairs and rubber lining full repairs of equipment.
The following sub- systems shall be rubber lined be the contractor:

- Demin Train vessels & pipes
- CPP Train vessels & pipes
- CPP & Demin hot water tank & pipes
- Chemical Bulk tanks pipes

The scope of work includes but not limited to the following:

- The Contractor & Eskom must conduct a detailed visual inspection and pin-hole detection testing (no more than 3 kilovolts per mm) on the existing rubber to check the condition of the rubber lining and identify the defects. Identify and mark-up the defects or the areas requiring the repairs.
- The Contractor must strip & re-rubber line the damaged area the vessel using 6mm Grade A butyl rubber. Sandblast the whole vessel with silica free sand blasting grit.
- The Contractor must ensure that there is a system installed which will remove the dust created during sandblasting and must be exhausted outside the building in a designated area.
- The contractor should take note that this is a demineralisation plant and hence the cleanliness during blasting operations is of outmost importance to prevent contamination during production. Refer specifications on surface preparation and rubber lining.
- Table can be used to determine the rubber lining requirements for the vessel. The supports must also be rubber lined with 6 mm Grade A butyl rubber. The supports must be straightened before rubber lining is done.
- The floor of the vessel must also be rubber lined.
- The manholes must also be rubber lined.
- Eskom will be responsible to remove, nozzles, laterals and pipes inside the vessels for access & install back after rubber lining is completed.
- Test sample panels shall be (100mm X 200mm X 2mm) will be required per vessel.
- Inlet & outlet pipes that need rubber lining will be removed by Eskom, Contactor will collect from Duvha Power station to their site to re-rubber line and deliver back to the station.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the technical evaluation process and criteria for the rubber lining of vessels and pipes at Duvha Power Station.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and Technical Evaluation Team (TET) member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

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2.1.2 Applicability

This document applies to Duvha Power Station and all relevant stakeholders interested in this document.

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] 382-171881 – Duvha Power Station Rubber Lining Scope of Work.

[2] 32-1034 – Eskom procurement and supply chain management

[3] 240-48929482: Tender Technical Evaluation Procedure

2.2.2 Informative

- N/A

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
QCP	Quality Control Plan
TET	Technical Evaluation Team
WTP	Water Treatment Plant
N/A	Not Applicable

2.5 ROLES AND RESPONSIBILITIES

Roles and responsibilities are as per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

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3. TENDER TECHNICIAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered compliant from a technical perspective is 70%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Sonwabo Xaba	Senior Advisor Maintenance
TET 2	Yamkela Mgwebi	System Engineer
TET 3	Mapelo Gqwede	Technician Maintenance

During the tender evaluations the following table shall be used by the TET members to score each criterion on a scale of 0 to 5 as per Table 2.

Table 2: Qualitative Evaluation Criteria

Score	(%)	Definition
5	100	**COMPLIANT** • 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; • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions.
2	40	**NON-COMPLIANT** • 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**
Note 1: The scoring table does not allow for scoring of 1 and 3. **Note 2**: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.		

Table 4 indicates the qualitative technical evaluation criteria that shall be used by the technical tender evaluation team.

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2 defines all the Mandatory Evaluation Criteria to be used as well as the reference to the specification and motivation for Criteria use. These criteria will not be scored. Each tender will be assessed on a yes/no basis.

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	**PROVIDE VERIFIABLE REFERENCES THAT THE MANUFACTURER & THE INSTALLER HAVE SUCCESSFULLY APPLIED CHEMICAL RESISTANT RUBBERLINING IN A VESSEL** • The verifiable evidence shall include contact details, previous work related to the scope of work signed QCPs or Release Certificates for the listed reference projects.	The verifiable evidence shall include: • Clients contact details, • Project description, • Project Duration • Fully **SIGNED** QCPs or **SIGNED** Release/Completion Certificates for the listed reference projects. **Note 1:** Purchase order with no reference letter or verifiable evidence will not be acceptable.	This criterion is required to ensure that the contractor is competent to perform the work as per the scope of work and a requirement of the spec RTD/MAT/20/159

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Technical Evaluation Criteria for Water Treatment Plant rubber lining 5-year contract							
	KPA %	**Criteria**	**Minimum Requirements**	**Required Submissions**	**0 = 0%**	**2 = 40%**	**4 = 80%**	**5 = 100%**
2. Corrosion Protection requirements								
2. Evaluation Criteria	**15%**	**2.1. Product Data Technical Sheets**	Contractor must provide technical datasheets for all products as per the scope, i.e., blast media, primer, adhesive, rubber material. Note1: Material Safety Data sheet (MSDS) will not be acceptable.	As a minimum supply of individual product data sheets for: (1) Blasting grit. (2) Primer (3) Adhesives (4) Rubber	No data sheets provided.	Only adhesives and rubber datasheets provided as per the Corrosion Protection Specification.	Only primer, adhesives and rubber datasheets provided as per the Corrosion Protection Specification.	All data sheets provided and all information as per the Corrosion Protection Specification were provided.
	20%	**2.2. Method statements for work**	INSTALLATION METHOD STATEMENT/INSTALLATION PLAN Application method statement relevant to RTD/MAT/19/069: Corrosion Protection Specification – Duvha Power Station Demineralisation Trains. (1) Substrate surface preparation. (2) Rubber lining methodology. (3) Environmental Considerations. (4) Inspection and Testing.	Detailed Method Statements of the minimum evaluation criteria requirements	Method statement not received or lacking details requested.	Two (2) steps missing.	One (1) step missing.	All application steps provided.
	20%	**2.3. Quality Control Plan**	All installation steps and testing, inspections with criteria and required interventions required to monitor. (1) Substrate preparation. (2) Primer application. (3) Adhesive application. (4) Rubber application (5) testing requirements	Typical QCP submitted for a similar vessel	Relevant QCP not provided.	QCP missing two (2) steps missing.	QCP missing: One (1) step.	Detailed QCP indicating all steps, tests, standards, inspections criteria and interventions i.e. (1-6).

			(6) Environmental conditions acceptance.					
	10%	**2.4. Scope of Work Compliance**	The contractor fully complies with the SOW, conditions and with the technical scope as set out in the Scope of work. If deviations are listed – the deviations will be evaluated to determine if it is a risk to the scope.	A written, definitive statement on a company letterhead and signed.	Detrimental, technically unacceptable Deviations or Exclusions.		No definitive statement that there are any Deviations or Exclusions OR Acceptable Deviations or Exclusions.	A definitive statement that there are no Deviations or Exclusions.
	15%	**2.5 Project Program**	Contractor to submit a detailed project indicating the following milestones: 1. Start date & Completion date (estimated dates) 2. Procurement phase (Lead time) All activities included: 3. Removal of the internals 4. Removal of the rubber 5. Internal Inspection 6. Rubber lining	Microsoft program to be submitted.	No programme submitted or programme not relevant to the scope of work	Submitted program missing 3 of 6 requirements	Submitted program missing 2 of 6 requirements	Submitted program with all the milestones included.
	20%	**2.6 Personnel Experience (CVs) and Qualification**	**Project Manager**: Project manager with at least (3) projects completed as project management and verifiable references.	CV and project management qualification/certificate	No submission or submission not relevant to the requirements.	One (1) project completed experience as project manager	Two (2) project completed experience as project manager	Three (3) project completed experience as project manager
			Project Supervisor: three years of experience as a supervisor for rubber lining completed projects with verifiable references.	CV and Mechanical diploma qualification.	No submission or submission not relevant to the requirements.	1 year of experience as a supervisor with verifiable references	2 years of experience as a supervisor with verifiable references	3 years of experience as a supervisor with verifiable references
			Rubber lining Applicator/Liner with at least 3 years of experience in rubber lining, variable references to be included on the CV	Curriculum vitae and Matric Certificate	No submission or submission not relevant to the requirements.	1 year of experience as a rubber applicator with verifiable references	2 years of experience as a rubber applicator with verifiable references	3 years of experience as a rubber applicator/liner with verifiable references
	100%							

3.5 TET MEMBER RESPONSIBILITIES

In Table 5 identify the TET members allocated to review/evaluate each Qualitative criterion (minimum 2 evaluators per criteria / sub-criteria)

Table 4: TET Member Responsibilities

Mandatory Criteria Number	**TET 1**	**TET 2**	**TET 3**
1) Contractors experience in rubber lining	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**
2.1) Product Data Sheet	X	X	X
2.2) Method Statement	X	X	X
2.3) Quality Control Plan	X	X	X
2.4) Scope Compliance	X	X	X
2.5) Scope Program	X	X	X
2.6) Personnel Experience	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	**None**

Table 6: Unacceptable Technical Risks

Risk	Description
1.	If datasheets/method statements or QCP are not submitted, or incorrect documents are submitted
2.	

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**
2.	
3.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Sibonokuhle Tapala	Auxiliary Senior Engineer
Kuhlula Baloyi	Senior Supervisor – HMD

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2025	0	S Xaba	Original Document

6. DEVELOPMENT TEAM

None

7. ACKNOWLEDGEMENTS

Kuhlula Baloyi

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