

Title: **Tender Technical Evaluation
Strategy for Seven-Year Dam
De-Silting & Lining Project**

Unique Identifier:

Alternative Reference Number: **N/A**

Area of Applicability: **Civil Engineering**

Documentation Type: **Strategy**

Revision: **0**

Total Pages: **13**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED
DISCLOSURE**

Compiled by

Functional Responsibility

Authorised by

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Date:

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1. INTRODUCTION

Hendrina Power Station is situated in Mpumalanga Province, approximately 30 km from both Hendrina Township and Middelburg.

The Seven Year Dam is an unlined earth embankment constructed to collect runoff originating from the eastern side of the power station and the adjacent coal stockyard.

Stormwater and station effluent are collected by a subsurface drainage system located east of the chimneys and precipitator plant and are conveyed through a 1050 mm concrete pipe into an underground culvert discharging into the dam.

Additional runoff from the stockpile area is directed via two channels into a concrete settling sump, with overflow from the sump also feeding into the same 1050 mm pipeline.

Furthermore, a concrete pre-settling channel positioned along the security fence conveys runoff from the southeastern section of the station to the dam inlet culvert.

The Seven Year Dam is designed to accommodate a 1:50-year flood event and has a maximum storage capacity of approximately 18,000 m³, with a dam wall height of 3.6 m.

The structure comprises a sandy-clayey core embankment and incorporates a concrete-lined spillway, approximately 2 m long and 300 mm high, to manage overflow during periods of high rainfall.

The spillway has an estimated maximum discharge capacity of 18,588 m³.

2. SUPPORTING CLAUSES

2.1 SCOPE

The document covers the tender technical returnable required for the technical evaluation purpose for De-silting & Lining of the seven-year dam. The tender returnable comprises of mandatory and qualitative requirements.

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 is applicable to Hendrina 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.

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2.2.1 Normative

- [1] 240-168966153: Tender Technical Evaluation Procedure
- [2] 32-1034 Eskom Procurement and Supply Chain Management Procedure

2.2.2 Informative

- [3] None

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
7YD	Seven Year Dam
TET	Technical Evaluation Team
CIDB	Construction Industry Development Board
ECSA	Engineering council of south Africa
HDPE	High-density polyethylene
SANS	South African National Standards
TET	Technical Evaluation Team
ZLED	Zero Liquid Effluent Discharge

2.5 ROLES AND RESPONSIBILITIES

as per 240-168966153: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

Seven-year De-Silting & Lining Project Scope of Work

3. TENDER TECHNICAL EVALUATION 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%.

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Table 1: Qualitative Evaluation Criteria Scoring Table.

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.		

3.2 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1		Civil Engineer
TET 2		Civil Engineer

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	ECSA Registered Civil Engineer	Certified Professional registration certificate	Ability of the contractor to certify/interpret as built drawings.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

Category	Points	Sub Criteria	Score	Source Evidence	Reason for Requirement
Experience of Company	10	This sub criterion covers the experience of the company in Civil Engineering Construction projects with experience in live/operational environments (e.g., power stations, mining).		Company Profile with a track record of the works done thus far.	Construction Regulation 5 (h);
		More than 5 years. (100% = 5 points).	10		
		5 years and less, but more than 3. (80% = 4 points).	8		
		3 years and less, but more than 1. (40% = 2 points).	4		
		1 year and less. (0% = 0 points).	0		
Completed Similar Projects	30	This sub criterion covers the number of completed projects of similar nature (dam lining, HDPE works). Include letter of appointment & completion certificates.		List of completed similar work with references/ Completion Certificate	Construction Regulation 5 (h);
		6 or more similar projects successfully completed. (100% = 5 points).	30		
		4 similar projects successfully completed. (80% = 4 points).	24		
		2 similar projects successfully completed. (40% = 2 points).	12		
		0 similar projects successfully completed. (0% = 0 points).	0		

Experience Construction Manager	15	This sub-criterion evaluates the overall professional experience of the proposed Construction Manager, specifically the total period served in a Construction Management capacity and their proven track record in the planning, coordination, supervision, and delivery of Civil Engineering Construction Projects. The proposed Construction Manager must possess a certified Bachelor's Degree in Civil Engineering, Construction Management, Project Management, or a closely related built environment discipline.		CV of the proposed Construction Manager with a proven track record with certified certification.	Construction Regulation 8 (1)
		More than 5 years. (100% = 5 points).	15		
		5 years and less, but more than 3. (80% = 4 points).	12		
		3 years and less but more than 1. (40% = 2 points).	6		
		1 year and less. (0% = 0 points).	0		
Experience Welding Artisan	15	This sub criterion covers the experience of the proposed Welding Artisan (total duration of professional activity as a Welding Artisan) in projects that entails HDPE welds.		CV of the proposed Artisan who specialises in Wedge & Fusion welds with certified certification.	Construction Regulation 8 (1)
		More than 5 years. (100% = 5 points).	15		
		5 years and less, but more than 3. (80% = 4 points).	12		
		3 years and less but more than 1. (40% = 2 points).	6		
		1 year and less. (0% = 0 points).	0		

Construction Method Statement	30	This sub criterion covers the contents of construction method statement dealing with a Detailed method statement for: De-silting, Subgrade preparation & Sectional lining with water control.			Detailed Method Statement with relevant standards, programme, equipment list, execution plan & inspection methods.	Assessment of the ability of the contractor to execute the work safety and technically acceptable within the standards
		List of relevant standards/specifications (i.e., SANS)	Submitted list of standards: (100% = 5 points).	5		
			No submission: (0% = 0 points).			
		Construction programme/ Gantt chart.	Submitted Gantt chart with project timelines: (100% = 5 points).	5		
			No submission: (0% = 0 points).			
		List of Equipment, Resource, Material.	Submitted list of equipment, resources & material: (100% = 5 points).	5		
			No submission: (0% = 0 points).			
		Technical Execution - Activities, Methods, level controls, etc..	Submitted execution plan with detailed activities, methods & control measures: (100% = 10 points).	10		
			No submission: (0% = 0 points).			
		Inspections and Testing / QCP	Submitted inspection & testing QCP's: (100% = 5 points).	5		
No submission: (0% = 0 points).						

3.5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
ECSA Registered Engineer	X	X
Qualitative Criteria Number	TET 1	TET 2
Experience of Company	X	X
Completed Similar Projects	X	X
Experience of Construction Manager	X	X
Experience of Welding Artisan.	X	X
Construction Method Statement	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Controlled Residual Moisture in Subgrade
2.	Minor Differential Settlement
3.	Controlled Seaming Variability
4.	Temporary Water Ingress During Sectional Works
5.	Surface Imperfections Within Tolerance
6.	Environmental Disturbance During De-silting

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Inadequate Subgrade Preparation
2.	Liner Installation on Wet or Unstable Surface
3.	Failed or Untested Weld Seams
4.	Absence of Anchor Trenches
5.	Uncontrolled Water Flow During Construction
6.	Lack of Geotextile Protection (Where Required)
7.	Non-Compliance with Environmental Regulations
8.	Inadequate Quality Control / Documentation

9.	Use of Incorrect or Substandard Materials
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3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Minor Surface Irregularities Within Tolerance
2.	Localised Repairs to Subgrade
3.	Controlled Sectional Construction Without Full Isolation
4.	Minor Weld Rework
5.	Temporary Access Over Prepared Areas

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Use of Unapproved Materials
2.	No Water Control During Sectional Works
3.	Installation on Wet or Contaminated Subgrade
4.	Omission of Anchor Trenches
5.	Omission of Subgrade Preparation
6.	Reduction in HDPE Liner Thickness
7.	Acceptance of Failed Welds

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Murendeni Mashamba	Civil Engineer
	Civil Engineering Manager [Act]
	Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
26/08/2026	0		Draft document

6. DEVELOPMENT TEAM

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

7. ACKNOWLEDGEMENTS

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