

Title: **Duvha Power Station Tender
Technical Evaluation Strategy –
Surrounding Land Fence**

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CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
2.1 SCOPE	3
2.1.1 Purpose	3
2.1.2 Applicability	3
2.2 NORMATIVE/INFORMATIVE REFERENCES	3
2.2.1 Normative	3
2.2.2 Informative	4
2.3 DEFINITIONS	4
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	4
2.6 PROCESS FOR MONITORING	4
2.7 RELATED/SUPPORTING DOCUMENTS	5
3. TENDER TECHNICAL EVALUATION STRATEGY	5
3.1 TECHNICAL EVALUATION THRESHOLD	5
3.2 TET MEMBERS	5
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	6
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	7
3.5 QUALITATIVE CRITERIA EVALUATION	9
3.5.1 TET Member Responsibilities	10
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	10
3.6.1 Risks	10
3.6.2 Exceptions / Conditions	11
4. AUTHORISATION	11
5. REVISIONS	11
6. DEVELOPMENT TEAM	11
7. ACKNOWLEDGEMENTS	11

TABLES

Table 1: Core and Optional TET Members	5
Table 2: Mandatory Technical Evaluation Criteria	6
Table 3: Qualitative Technical Evaluation Criteria	7
Table 4: TET Member Responsibilities	10
Table 5: Acceptable Technical Risks	10
Table 6: Unacceptable Technical Risks	10
Table 7: Acceptable Technical Exceptions / Conditions	11
Table 8: Unacceptable Technical Exceptions / Conditions	11

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1. INTRODUCTION

Eskom land is beyond the Duvha Power Station footprint which includes Ikageng and the village. The land only has a damaged barbed wire fence along the adjacent farmland and mostly not fenced.

Due to the potential intrusion into the Eskom property and the Duvha ash dam, it is imperative to provide the security and ensure controlled access to the premises including the ash dam and the low-level dam. The purpose of the project is to install fences that will provide security to the Duvha land and provide control un-authorised access of both human and livestock around the ash dam premise as per the National Water Act, 1998 (Act No. 36 of 1998) requirements.

The following is a high-level scope that will need to be completed as part of the Works:

- Deconstruction and removal of the existing fence, posts and post foundations,
- Design, supply and install/construct a 16.8km long, 1.8m high category 1 high security mesh fence and 7m wide access sliding gates for the Duvha land perimeter.
- Design, supply and install the new 4.2km long, 1.8m high welded mesh fence as well as a vehicle access gate around the ash dam premises.

A technical specification has been developed to outline the technical requirements for the works. A tender will be advertised for the works required and will be evaluated technically based on the strategy indicated herein.

2. SUPPORTING CLAUSES

2.1 SCOPE

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 applies 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.

2.2.1 Normative

[1] 240-48929482: Tender Technical Evaluation Procedure

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- [2] ISO 9001: Quality Management Systems
- [3] 240-44682850: PCM - Provide Engineering During Project Sourcing
- [4] 32-1033: Eskom Procurement and Supply Chain Management Policy
- [5] 32-1034: Eskom Procurement and Supply Management Procedure

2.2.2 Informative

- [6] 382-170012: Duvha Power Station – Construction of the Surrounding Land Fencing – Technical Specification
- [7] General Authorisation (GA) in terms of Government Notice 509 for Duvha Power Station Surrounding Land Fencing Development in quaternary B11G in Duvha Power Station, Emalahleni, Mpumalanga

2.3 DEFINITIONS

Definition	Description
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
CV	Curriculum Vitae
ECSA	Engineering Council of South Africa
EDWL	Engineering Design Work Lead
GA	General Authorization
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

The primary process that shall be used for monitoring the application of this document is 240-48929482: Tender Technical Evaluation Procedure

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2.7 RELATED/SUPPORTING DOCUMENTS

- [8] 240-53716746: Tender Technical Evaluation Report Template
- [9] 240-53716712: Tender Technical Evaluation Results Form Template
- [10] 240-53716726: Tender Technical Evaluation Scoring Form Template

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

- a) Engineering: 100%
- b) Safety Health Environmental and Quality (SHEQ): Objective

The SHEQ objective criteria are not included in this document as it does not form part of the Engineering scope.

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

The scoring method will be as stipulated in Table 2-4.

3.2 TET MEMBERS

The full time core technical evaluation team will consist of the following team members (in-line with the Tender Engineering Evaluation Procedure, 240-48929482)

The part time/support team member shall be required to fill in a technical evaluation form, if their names are marked as mandatory (X), next to a criterion. The part time/ support team member may not be required to fill in a technical evaluation form, if their names are marked as optional (O) next to a criterion, but shall assist the main members where necessary.

Table 1: Core and Optional TET Members

TET number	TET Member Name	Designation
TET 1	Thapelo Lesame	Engineer – Structural Design
TET 2	Vusi Chirwa	Civil Technician

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3.3 MANDATORY 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.	Professional Civil Engineering registration as a Technologist /Engineer with ECSA to sign off the designs	Copy of minimum Qualification/ Certificates required and a CV with contact references. Certified copy of the ECSA registration certificate	Compliance (<i>Design is to be executed and approved by registered professionals</i>)
2.	Has the Tenderer agreed to comply to the Environmental requirements and the general authorization stipulated in the Scope of Works	Letter indicating the Tenderer is aware that the works is within the wetland and shall comply to the GA	Compliance

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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.	Civil and Structural Works		80	
	1.1 The tenderer shall submit a project list of traceable references and three (3) completion certificates which adequately proves that the Tenderer has completed at least three (3) contracts successfully of similar scope in the last five (5) years?	<p>Tender Returnable-</p> <p>Completion certificates for the project completed in the last five (5) years and the relevant company experience (Track record);</p> <p>Not submitted: 0 Less than three completion certificates: 2 Two completion certificates within the five years and one beyond the period: 4 Three completion certificates: 5</p>		50
	1.2 Preliminary Method Statement for execution of the works including design philosophy and construction/ sequence of erection – how will the expected work be performed	<p>Tender Returnable-</p> <p>Preliminary method statement for execution of the works including design philosophy (Codes and standards to be used in design of civil and structural incl. architectural</p>		50

			components) and construction/ sequence of erection; Not submitted: 0 Completeness (less than 80%): 2 Completeness (80% or above): 4 Complete: 5		
2.	General			20	
	2.1	Proposed Staff allocation to project (Organogram with key staff indicated for design and construction supervision)	Tender Returnable- Proposed organogram (for design and construction supervision); Not submitted: 0 Completeness (less than 80%): 2 Completeness (80% or above): 4 Complete: 5		25
	2.2	CVs of all technical personnel with their relevant experience and track record (i.e. project manager, site agent).	CVs of all technical personnel and their track records; Not submitted: 0 80% of the team is inexperienced personnel: 2 More than 80% of the team has relevant experience: 4 Relevant experience: 5		25
	2.3	Level 3 Programme inclusive of all works associated with the scope	Tender Returnable- Level 3 Project Schedule Not submitted: 0 Completeness (less than 80%): 2		50

			Completeness (80% or above): 4 Complete: 5		
				TOTAL: 100	

3.5 QUALITATIVE CRITERIA EVALUATION

During the tender evaluations, the following Table 4 shall be used by the TET members to score each criterion on a scale of 0 to 5:

Table 3: Qualitative Evaluation Criteria Scoring Table

SCORE	PERCENTAGE	DESCRIPTION
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 <ul style="list-style-type: none"> Meet technical requirement(s) with; 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
Note : The scoring table does not allow for scoring of 1 and 3		

3.5.1 TET Member Responsibilities

Key: X = Mandatory; O = Optional

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
1.1	X	X
1.2	X	X
2.1	X	X
2.2	X	X
2.3	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Alternative solutions with same or better performance

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Not meeting the technical skill required, All conditions must be met
2.	Exclusions of scope specified in the employer's requirements
3.	Exclusion of project specific schedule

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3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

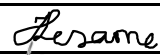
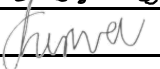
Risk	Description
1.	None

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Not meeting the technical skill required, All conditions must be met

4. AUTHORISATION

This document has been seen and accepted by:

TET Number	Name	Designation	Signature
1	Thapelo Lesame	Engineer- Civil and Structural Engineering	
2	Vusi Chirwa	Civil Technician	

5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2023	0.1	T Lesame	Draft, circulated for internal review
November 2023	1.0	T Lesame	Final document

6. DEVELOPMENT TEAM

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

- T Lesame

7. ACKNOWLEDGEMENTS

- Vusi Chirwa

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