

	Technical Evaluation Strategy	Engineering
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Lighting Systems Installation**

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Compiled by



S. Mnguni

Electrical Senior Technician

Date: 29/09/2020

Functional Responsibility



A. Nqayane

Duvha Electrical Eng Manager

Date: 30/09/2020

Authorised by



T. Madonsela

Duvha Middle Eng Manager

Date:

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1. INTRODUCTION

The Duvha Power Station's Coal Stock Yard, Cooling Tower Screen Washing Bays, Coal Stock Yard Tired Road, Ash Water Return, Sluice Booster and Process Pump Houses do not have sufficient lighting system installed. The deficiency of lighting in these areas presents safety risk for personnel who occupies or work at any of those areas during the night.

Safety Department conducted the lighting survey and recommended that a sufficient lighting system be installed in all areas.

The recommendation requisites a lighting system with lux level that complies with relevant Eskom Standard, SANS and Occupational Health and Safety Act to be installed in these areas.

This document outlines the technical evaluation criteria stating how the tenderer to execute the scope of work will be evaluated on the technical information that will be supplied

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the different aspects that will be evaluated and scored by the Technical Evaluation Team (TET) of Duvha Unit 3 Recovery Project for the installation of Ring Main Units and Miniature Substation. The team members are listed and appointed in this document along with their responsibilities.

The document also describes the acceptable and unacceptable risks and qualifications and/or conditions.

Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without appropriate authorisation.

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 tender technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to the Duvha Power Station: Lighting Systems installation.

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] 32-1034: Eskom Procurement Policy

- [3] 382-657 Duvha Unit 3 Recovery Project: Installation of Ring Main Units (Rmu) and Miniture Substation Scope

2.2.2 Informative

- [4] 240-53113685: Design Review Procedure
[5] 240-53114026: Project Engineering Change Management Procedure

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 Disclosure Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
EDWL	Engineering Design Work Lead
LDE	Lead Discipline Engineer
N/A	Not Applicable
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482, Tender Engineering Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. TENDER TECHNICAL EVALUTION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD & METHOD

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted nor point scored, but shall be assessed on a Yes/No basis as to whether or not the

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criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

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

The evaluation strategy for Planning, Safety, Health and Environmental as well as Quality is 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.

The scoring method will be as stipulated in Table 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) in Table 1:

Table 1: TET Members

TET number	TET Member Name	Designation
1	Sakhya Mnguni	Engineer - Electrical Engineering Lead
2	Thapelo Lesame	Engineer - Civil Engineering Lead
3	Thulani Dlamini	Engineer – Electrical Engineer

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. These members may be as follows in Table 2:

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

No	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Registration as an Electrical Contractor with Department of Labour	<i>"A certificate of registration as an Electrical Contractor from DoL"</i>	Legislative
2.	Registration as an Electrician with Department of Labour	<i>"A CV and certificate of registration as a Three Phase Electrician "</i>	Legislative
3.	ECSA Registered Electrical Engineer or Technologist	<i>"A CV and certificate of registration as a Pr Electrical Engineer or Technologist"</i>	Legislative. (Detailed Design is to be executed and approved by registered professionals)
4.	ECSA Registered Civil Engineer or Technologist	<i>"A CV and a certified of copy ECSA registration as a Pr Civil Engineer or Technologist"</i>	Legislative. (Detailed Design is to be executed and approved by registered professionals)

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3.4 QUALITATIVE CRITERIA EVALUATION

During the tender evaluations, the following Table 4 shall be used by the TET members to score each criterion:

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 1: The scoring table does not allow for scoring of 1 and 3		

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3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Electrical Engineering			70	
	1.1	Preliminary Method Statement for execution of the works including construction/ sequence of erection – how will the expected work be performed	<p>Preliminary method statement for execution of the works including construction/ sequence of erection; The completeness and relevance to the scope will be assessed.</p> <p>Not submitted : 0 Completeness (less than 80%) : 2 Completeness (80% or above): 4 Complete : 5</p>		30
	1.2	Proposed staff allocation to the project (Organogram with key staff indicated for design and construction).	<p>Proposed organogram (for construction supervision);</p> <p>Not submitted : 0 Completeness (less than 80%) : 2 Completeness (80% or above): 4 Complete : 5</p>		15
	1.3	CV's of all personnel and track record showing at least 8 years experience.	<p>CV's of all personnel and track record</p> <p>Not submitted : 0</p>		40

			0 – 5 year : 2 5 – 7 year : 4 8 years and above : 5		
	1.4	Level 3 Programme inclusive of all works associated with the scope.	Level 3 Project Schedule Not submitted : 0 Completeness (less than 80%) : 2 Completeness (80% or above): 4 Complete : 5		15
2.	Civil Engineering			30	
	2.1	Preliminary Method Statement for execution of the works including construction/ sequence of erection – how will the expected work be performed	Preliminary method statement for execution of the works including construction/ sequence of erection; The completeness and relevance to the scope will be assessed. Not submitted : 0 Completeness (less than 80%) : 2 Completeness (80% or above): 4 Complete : 5		30
	2.2	Proposed staff allocation to the project (Organogram with key staff indicated for design and construction).	Proposed organogram (for construction supervision); Not submitted : 0 Completeness (less than 80%) : 2 Completeness (80% or above): 4 Complete : 5		15

	2.3	CV's of all personnel and track record showing at least 8 years experience.	CV's of all personnel and track record Not submitted : 0 0 – 5 year : 2 5 – 7 year : 4 8 years and above : 5		40
	2.4	Level 3 Programme inclusive of all works associated with the scope.	Level 3 Project Schedule Not submitted : 0 Completeness (less than 80% : 2 Completeness (80% or above): 4 Complete : 5		15

3.5.1 TET Member Responsibilities

Key: X = Mandatory;

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
1	X	X
2	X	X
3	X	X
4	X	X
Qualitative Criteria Number	TET 1	TET 2
Mechanical		
1.1	X	
1.2	X	
1.3	X	
1.4	X	
Civil		
2.1		X
2.2		X
2.3		X
2.4		X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

It is anticipated that various risks, exceptions and conditions will be identified during the clarification and negotiation process. Each of those will be considered and evaluated individually to determine whether they are acceptable, unacceptable or whether suitable mitigation measures can be agreed upon.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Andile Nqayane	Duvha Electrical Engineering Manager
Nelly Hlophe	Duvha Auxiliary Plant Manager
Thembi Madonsela	Duvha Middle Engineering Manager

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5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2020	00	Sakhy Mnguni	1 st Issued

6. DEVELOPMENT TEAM

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

- Sakhy Mnguni
- Thapelo Lesame

7. ACKNOWLEDGEMENTS

David Kunene