Eskom	Strategy	Engineering

Title: **Tender evaluation strategy for Diesel Generator Replacement at Duvha Power Station**

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TABLES

1. INTRODUCTION

Duvha Power Station aims to secure a contract that covers the design, supply, installation, integration, and commissioning of diesel generators at Duvha Power Station.

The scope of work includes the following disciplines:

- Electrical: The electrical project boundary is limited to the diesel generator room and includes the diesel generators (engines and alternators) together with all associated auxiliaries. These auxiliaries comprise the diesel generator control panels, starting systems, protection systems, and circuit breakers. The scope further includes power cabling up to the 380 V Diesel Generator Board.
- Control and Instrumentation (C&I): The C&I project boundary extends from the existing controllers and includes junction boxes, field instrumentation, control cabling, and interfaces from the Engine Operating Device (EOD) to the unit control room. This enables monitoring of alarms, status, and operational parameters of the diesel generators.
- Low Pressure Services (LPS): The LPS scope is confined to the diesel generator room and includes the diesel generators (engines and alternators) and associated auxiliary systems. These systems comprise the bulk fuel oil supply system, cooling system, HVAC, and fire protection system. All systems will be assessed, with repair or replacement undertaken where required.
- Civils and Structures: The civils and structures scope covers areas within the diesel generator room and extends to external installations, including water cooling towers and diesel storage tanks. Structural assessments will be conducted, including load verification for all new equipment installations.

This document outlines the technical evaluation criteria and defines the methodology for assessing the technical returnable documents submitted by tenderers for the execution of the replacement of Diesel Generators Scope of Work.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the different aspects that will be evaluated and scored by the Technical Evaluation Team (TET). 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 shall apply to Duvha Power Station, Group Technology Engineering and the Contractor.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 NORMATIVE

[1] 240-168966153: Tender Technical Evaluation Procedure

[2] 32-1034: Eskom Procurement Policy

2.2.2 INFORMATIVE

[3] 240-53113685: Design Review Procedure

[4] 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

N/A

3. TENDER TECHNICAL EVALAUTION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

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 the 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 tenderer to be considered from a technical perspective is 70%.

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 3.

3.2 TET MEMBERS

The technical evaluation team will consist of the following team members (in-line with the Tender Engineering Evaluation Procedure, 240-168966153) in Table 1:

Table 1: TET Members

TET number	TET Member Name	Designation
1	Masilo Sekhele	Systems Engineer - Electrical Engineering
2	Virginia Mangwiro	Senior Engineer – Electrical Engineering
3	Sibonokuhle Tapala	Senior Engineer - Auxiliary Engineering
4	Thabiso Masethe	Systems Engineer – Auxiliary Engineering
5	Vusi Chirwa	Systems Engineer - Auxiliary Engineering

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 excluding 1 and 3.

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 2: Mandatory Technical Evaluation Criteria

No	Mandatory Technical Criteria Description	Tender Returnable	Motivation for use of Criteria
1	ISO 9001 Certification ISO 3834 Part 2 Certification	ISO 9001 Certificate ISO 3834 Certificate	Quality
2	ECSA registered Technologist/ Engineers in Electrical, Mechanical Civil Engineering	ECSA certificates that show registration as Electrical/Mechanical/Civil Engineer/Technologist. Provide: 1X ECSA Professionally Registered Electrical Engineer/ Technologist (Pr. Eng/ Pr.Eng Tech). And 1X ECSA certificate for Mechanical Engineer/Technologist (Pr. Eng/ Pr.Eng Tech). And 1x ECSA Professionally Registered (Pr. Eng/ Pr.Eng Tech) Civil Engineer or Technologist. Submission of a CV reflecting experience in civil and structural consulting works, certified copies of relevant Civil Engineering qualification and ECSA Pr certificate. (certification of copies shall be within 6 months of submission date).	Ensures the tenderer has proven competence in designing and relevant resources

3.4 QUALITATIVE CRITERIA EVALUATION

During the tender evaluations, the following Table 3 shall be used by the TET members to score each criterion:

Table 3: Qualitative Evaluation Criteria Scoring Table

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

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

Table 4: Qualitative Technical Evaluation Criteria

Technical Evaluation Criteria for the replacement of Diesel Generators.								
	KPA %	**Criteria**	**Minimum Requirements**	**Required Submissions**	**0 = 0%**	**2 = 40%**	**4 = 80%**	**5 = 100%**
1. Evaluation Criteria	**40%**	Five project experience in the replacement of diesel generator projects or similar work	Completed at least two (2) projects must be completed within the last five (5) years. Projects involving the replacement, installation, or refurbishment of diesel generator systems or similar.	List of completed projects including: Project title and description, Client name and contactable references, Scope of work performed, Completion certificates or signed reference letters from clients.	No relevant project experience submitted OR submissions do not meet minimum requirement	1–2 relevant projects submitted. Limited similarity in scope or insufficient supporting documentation.	3–4 relevant projects submitted. Projects largely meet scope requirements with adequate supporting documents.	5 or more relevant projects submitted Projects fully meet or exceed scope, complexity, and industry requirements. Complete and verifiable supporting documentation provided.
2. Evaluation Criteria	**10%**	Method Statement	Preliminary Method Statement (Electrical, C&I, Mechanical, Civil) on how the Scope of Work will be performed.	Relevant preliminary method statement (Electrical, C&I, Mechanical, Civil) for execution of the works including sequence the tasks relevant to the scope of work.	No Method statement (Electrical , C&I, Mechanic al, Civil) submitted	Method statement (Electrical, C&I, Mechanical, Civil) is submitted, but submission is generic and does not address diesel generator replacement scope and risks.	Method statement (Electrical, C&I, Mechanical, Civil) covers main diesel generator replacement tasks and risks with reasonable detail, but some aspects are not clearly defined.	Method statement (Electrical, C&I, Mechanical, Civil) clearly describes diesel generator replacement processes, safety and environmental controls, planning, spares and reporting.
	10%	Project-based Team Organogram (Structure Focus)	Project team structure and allocation	Project organogram diagram showing roles and reporting lines. Functional responsibilities.	No Organogram submitted.	No Organogram submitted.	Organogram submitted but without key personnel stated.	Organogram submitted with key personnel stated.

Technical Evaluation Criteria for the replacement of Diesel Generators.								
	KPA %	**Criteria**	**Minimum Requirements**	**Required Submissions**	**0 = 0%**	**2 = 40%**	**4 = 80%**	**5 = 100%**
3. Evaluation Criteria	**20%**	Proposed staff allocation (Competence Focus – CVs & Qualifications)	The proposed project team must include a: - electrical artisan, Auto electrician with Trade test. - mechanical artisan with Trade test. - quality controller with Occupational Certificate/relevant training.	Professional CVs highlighting relevant experience and certified copies of certifications of Trade Tests.	No CV's provided	CV and qualifications submitted with 0 or less than 2 years' experience.	CV and qualifications submitted with 2 or more than 2 years exp, but less than 4 years exp.	CV and qualifications submitted with 5 or more than 5 years' experience.
	10%	Proof of experience in installation of HVAC systems of similar projects within the last 5 years	At least three (3) signed client reference letters or completion certificates.	Ensures the tenderer has proven competence and experience in HVAC installations.	No proof of experience provided.	One signed client reference letters or completion certificates.	Two (2) signed client reference letters or completion certificates.	Three (3) or more signed client reference letters or completion certificates.
	10%	Tenderer or tenderer's sub-contractor's Civil Construction experience	Submit at least 3 completion certificates/ Completion letters for reinforced concrete which includes new buildings/ Structures or modification of existing buildings	Completion certificate	No submission or submitted completion certificates are older than 15 years.	1 verifiable completion certificate of similar works as per the requirements submitted and within the last 15 years.	2 verifiable completion certificates of similar works as per the requirements submitted and within the last 15 years.	3 verifiable completion certificates of similar works as per the requirements submitted and within the last 15 years.
Total	**100%**							

NB: A minimum total of 70% is required in this section for further consideration.

3.5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**
1. Company ISO 9001 Certification AND/OR ISO 3834 Part 2 Certification	**X**	**X**			
2. ECSA registered Technologist/ Engineers in Electrical, Mechanical and Civil Engineering	**X**	**X**	**X**	**X**	**X**
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**
Five project experience in the replacement of diesel generator projects or similar work	**X**	**X**			
Method Statement	**X**	**X**	**X**	**X**	**X**
Project based team Organogram	**X**	**X**	**X**	**X**	
Proposed staff allocation to the project	**X**	**X**	**X**	**X**	
Proof of experience in installation of HVAC systems of similar projects within the last 5 years			**X**		
Tenderer or tenderer's sub-contractor's Civil Construction experience					**X**

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 RISKS

Table 6: Acceptable Technical Risks

Risk	Description
1.	**None**

Table 7: Unacceptable Technical Risks

Risk	Description
1.	
2.	
3.	

3.6.2 EXCEPTIONS / CONDITIONS

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**
2.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Andile Nqayane	Duvha Power Station: Electrical Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
January 2025	0	Mxolisi Nhlengethwa	Original document
March 2026	1	Masilo Sekhele	Revised document

6. DEVELOPMENT TEAM

None

7. ACKNOWLEDGEMENTS

None