

Title: **Tender Technical Evaluation  
Strategy for Lethabo Power  
Station Workshop & Stores  
Building Steel Roof**

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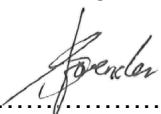
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Compiled by



**Suven Govender  
Civil Engineer  
Lethabo Power Station**

Date: 10/08/2021

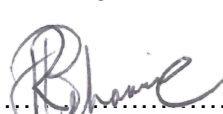
Functional Responsibility



**Johan Brink  
OPE Manager  
Lethabo Power Station**

Date: 2021-08-10

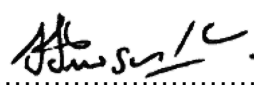
Approved by

p.p. 

**Nombuyiselo Molosiwa  
D&S Manager  
Lethabo Power Station**

Date: 2021-08-10

Authorised by



**Harry Sewsunker  
Engineering Manager  
Lethabo Power Station**

Date: 2021/08/10

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## **1. INTRODUCTION**

Lethabo Power Station is a coal fired power plant, which is situated in the Northern Free State. The station comprises of six of 618 MW Units. All equipment and materials required to maintain the operations of the station are stored in the main Workshop and Store building. Due to the inconsistent maintenance of this building, the existing Trisomet roof cladding has deteriorated which has resulted in water leaks during rainy season. This has compromised the stored equipment and materials as well as the safety of the employees using this building.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document provides the tender technical evaluation strategy for the demolition and replacement for the roof cladding system at the Workshop & Stores building at Lethabo 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 TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as a basis for the tender technical evaluation process.

#### **2.1.2 Applicability**

This document applies to Lethabo Power Station only.

### **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] ISO 9001 Quality Management Systems
- [3] 32-1034 Eskom Procurement Policy
- [4] 375-LET-AABZ18-PN0017-3: Lethabo Power Station Scope of Works for Workshop & Stores Building Steel Roof
- [5] 375-LET-AABB-D00138-94: Lethabo Power Station Workshop and Stores Building Steel Roof Replacement Project

#### **2.2.2 Informative**

- [6] 240-53113685: Design Review Procedure
- [7] 240-53114026: Project Engineering Change Management Procedure
- [8] 240-53114002: Engineering Change Management Procedure

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## **2.3 DEFINITIONS**

<b>Definition</b>	<b>Description</b>
Contractor/Tenderer	Refers to the corporation appointed to perform the concrete repair works
Employer	Refers to Eskom Holdings State Owned Company
Eskom Plant Engineering	Refers to the Eskom Engineering team who will perform the reviews and provide technical assistance for the work performed by the appointed Contractor.
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns
The Client	The end user will be Eskom who will be represented by Lethabo Power Station throughout the duration of the Project.

### **2.3.1 Classification**

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

## **2.4 ABBREVIATIONS**

<b>Abbreviation</b>	<b>Description</b>
ECSA	Engineering Council of South Africa
OPE	Outside Plant Engineer
TET	Technical Evaluation Team

## **2.5 ROLES AND RESPONSIBILITIES**

As per Tender Technical Evaluation Procedure [1].

## **2.6 PROCESS FOR MONITORING**

N/A

## **2.7 RELATED/SUPPORTING DOCUMENTS**

N/A

## **3. TENDER TECHNICAL EVALUATION STRATEGY**

### **3.1 TECHNICAL EVALUATION METHOD**

The basic steps for a technical evaluation must be followed as per the Tender Technical Evaluation Procedure [1].

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A two stage Technical Evaluation Strategy is set out.

**Stage 1:** Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted or point scored, but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and the tenderer shall not be further evaluated against Qualitative Criteria.

**Stage 2:** 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 Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion.

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

A weighted scorecard approach is used to evaluate the technical compliance of the tenders against the specifications.

The technical criteria and weighting is broken down as follows:

**a) Civil & Structural Engineering: 100%**

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 follows:

SCORE	PERCENTAGE	DESCRIPTION
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"><li>Meet technical requirement(s) AND;</li><li>No foreseen technical risk(s) in meeting technical requirements.</li></ul>
4	80	<b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b> <ul style="list-style-type: none"><li>Meet technical requirement(s) with;</li><li>Acceptable technical risk(s) AND/OR;</li><li>Acceptable exceptions AND/OR;</li><li>Acceptable conditions.</li></ul>
2	40	<b>NON-COMPLIANT</b> <ul style="list-style-type: none"><li>Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR;</li><li>Unacceptable exceptions AND/OR;</li><li>Unacceptable conditions.</li></ul>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>

The evaluation scores will be weighted as follows:

Engineering (100%)	
Civil & Structural Engineering	100%
<b>TOTAL (100%)</b>	
<b>Overall minimum threshold for qualification (70%)</b>	

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### **3.2 TECHNICAL EVALUATION THRESHOLD**

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

### **3.3 TET MEMBERS**

**Table 1: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Suven Govender	Civil Engineer: Lethabo Power Station
TET 2	Nicolan Govender	Civil Engineer: Lethabo Power Station
TET 3	Vincent Motaung	Mechanical Engineer: Lethabo Power Station

**Table 2: Optional TET Member**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 4	Johnson Zwane	Civil Maintenance Manager: Lethabo Power Station

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### 3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

**Table 3: Mandatory Technical Evaluation Criteria**

	<b>Mandatory Technical Criteria Description</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.1	<p>The Tenderer is to provide a valid ECSA Professional Registration certificate or registration number for the Lead Civil Design Engineer/Technologist who will be professionally accountable and responsible for these works.</p> <p>NB. Professional registration status can be confirmed via the ECSA website: <a href="https://www.ecsa.co.za/SitePages/Who%20is%20Registered.aspx">https://www.ecsa.co.za/SitePages/Who%20is%20Registered.aspx</a></p>	Tender Returnables – ECSA Professional Registration Certificate/Registration Number of Lead Civil Design Engineer/Technologist	Criteria assists to mitigate the risk of Tenderer with inexperienced/not suitably qualified personnel executing these Works.

### 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 (%)
2.	<b>Civil &amp; Structural Criteria</b>			<b>100</b>	
	2.1	<p><b>Technical proposal/Method Statement</b> detailing the installation and demolition methodology, which is in compliance to the full scope and describes how the scope will be executed.</p> <p>High level method statement and constructability analysis for the installation, demonstrating understanding of the scope and includes the following as a minimum:</p> <ul style="list-style-type: none"> <li>Proposed plant, equipment and tools</li> <li>Methodology for inspection, demolition/removal and installation of the new roof cladding system</li> <li>Proposed material to replace the current roof cladding</li> <li>Foreseen risks and concerns</li> <li>Required temporary works (if any)</li> </ul> <p>Scoring Criteria:</p> <p>5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> <li>Technical proposal details fully how scope will be met and provides comprehensive methodology of approach</li> </ul> <p>4 = 80% = COMPLIANT WITH ASSOCIATED QUALIFICATIONS</p> <ul style="list-style-type: none"> <li>Technical proposal describes how scope will be met and includes minor details on methodology of approach</li> </ul>	375-LET-AABZ18-PN0017-3 - Lethabo Power Station: Scope of Work for the Workshop and Stores Building Steel Roof		50



		<p>2 = 40% = NON-COMPLIANT</p> <ul style="list-style-type: none"> <li>Technical proposal does not contain methodology of approach but contains high level descriptions of how the works will be conducted OR Technical proposal reiterates the Employer's scope of works</li> </ul> <p>0 = 0% = TOTALLY DEFICIENT</p> <ul style="list-style-type: none"> <li>No submission made</li> </ul>			
	2.2	<p><b>Supplier's company profile showing relevant experience on similar projects (i.e. replacement and/or repairs to industrial roofs).</b></p> <p>List of verifiable references must be provided. The Tenderer must submit evidence of <u>completed projects</u> with the following information:</p> <ul style="list-style-type: none"> <li>Completion certificate or letter of completion from Client</li> <li>Project Name</li> <li>Description of work performed (description must be detailed enough to demonstrate that work performed on the project is similar in nature to the works required on this project)</li> <li>Project cost (Engineering and Construction work where applicable)</li> <li>Project start and end date</li> <li>Name, designation and contact details of the reference person</li> </ul> <p><u>Scoring Criteria:</u></p> <p>5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> <li>Work conducted on 3 or more projects of similar scope</li> </ul> <p>4 = 80% = COMPLIANT WITH ASSOCIATED QUALIFICATIONS</p>	Tender Returnable – List of completed projects		35

		<ul style="list-style-type: none"> <li>• Work conducted on 2 projects of similar scope 2 = 40% = NON-COMPLIANT</li> <li>• Work conducted on 1 project of similar scope 0 = 0% = TOTALLY DEFICIENT</li> <li>• No work done on previous projects of similar scope OR no submissions made</li> </ul>			
	2.3	<p><b>Lead civil engineer/technologist and construction manager experience:</b></p> <p>CV's of the proposed key resources each having a minimum of 5 years' relevant experience for the construction manager and site engineer/agent.</p> <p><u><i>NB. Letter of intent signed by both parties where sub-Contractor to be used for designer else CV not considered</i></u></p> <p><u>Scoring Criteria:</u> 5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> <li>• Meet technical requirement(s)/AND</li> <li>• No foreseen technical risk(s) in meeting technical requirements.</li> <li>• More than 5 years relevant experience for lead engineer/technologist and construction manager.</li> </ul> <p>4 = 80% = COMPLIANT WITH ASSOCIATED QUALIFICATIONS</p> <ul style="list-style-type: none"> <li>• 5 years relevant experience for lead engineer/technologist and construction manager.</li> </ul> <p>2 = 40% = NON-COMPLIANT</p> <ul style="list-style-type: none"> <li>• Less than 5 years relevant experience for lead engineer/technologist and construction manager</li> </ul> <p>0 = 0% = TOTALLY DEFICIENT</p> <p>No submissions made</p>	Tender Returnables – Provide CV of professionally registered lead civil engineer/technologist and construction manager		10

	2.4	<p><b>Organogram of project team</b> to be provided clearly indicating the roles that the resources will fulfil in the project</p> <p><u>Scoring Criteria:</u>  5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> <li>• Meet technical requirement(s)/AND</li> <li>• No foreseen technical risk(s) in meeting technical requirements.</li> <li>• Organogram submitted clearly indicating the design team and associated roles</li> </ul> <p>0 = 0% = TOTALLY DEFICIENT  Organogram submitted does not clearly indicate the design team and associated roles OR organogram not submitted</p>	Tender Returnables – Provide organogram of design team		5
				<b>TOTAL: 100%</b>	

### 3.6 TET MEMBER RESPONSIBILITIES

**Table 5: TET Member Responsibilities**

<b>Mandatory Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4</b>
1.1	X	X	X	X
<b>Qualitative Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET</b>
2.1	X	X	X	X
2.2	X	X	X	X
2.3	X	X	X	X
2.4	X	X	X	X

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### **3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS**

#### **3.7.1 Risks**

**Table 6: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	Proposing Standards and Procedures (motivated in detail) other than the specified Standards and Procedures in the Technical Specifications

**Table 7: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	Non-compliance or deviation with sections of the scope of work and standards without adequate explanation or alternatives
2.	Exclusions of scope specified in the Scope of Works
3.	The approach is generic and not tailored to address the specific project objectives and requirements. The approach does not consider all the critical characteristics of the work
4.	The Contractor does not show a full understanding of the scope of work
5.	The experience level of the Contractor to perform such replacements/installation
6.	Change of Sub-Contractors after Tender award

#### **3.7.2 Exceptions / Conditions**

**Table 8: Acceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	<b>N/A</b>

**Table 9: Unacceptable Technical Exceptions / Conditions**

Risk	Description
1.	Deviations to any part of the technical specifications without providing alternate solutions
2.	The technical proposal/method statement is generic, incomplete and not tailored to address the specific project objectives, scope and constraints. It does not deal with the critical constraints and hazards of the project.

## 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Harry Sewsunker	Engineering Manager: Lethabo Power Station
Thelma Ndimande	Procurement Manager: Lethabo Power Station
Johan Brink	OPE Manager: Lethabo Power Station
Suven Govender	Civil Engineer: Lethabo Power Station
Nicolan Govender	Civil Engineer: Lethabo Power Station
Vincent Motaung	Mechanical Engineer: Lethabo Power Station

## 5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2020	0.1	S. Govender	First Draft for comments
October 2020	1.0	S. Govender	Document updated due to comments from IDR
November 2020	2.0	S. Govender	Document revised to include evaluation criteria for replacement of the roof cladding
July 2021	3.0	S. Govender	Evaluation criteria updated

## 6. DEVELOPMENT TEAM

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

- Suven Govender

## 7. ACKNOWLEDGMENTS

- TET Members

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## **APPENDIX A: LIST OF TECHNICAL TENDER RETURNABLES**

<b>Civil Requirements</b>		
<b>1</b>	<b>Technical Proposal/Method Statement</b>	
	Includes as a minimum <ul style="list-style-type: none"> <li>Proposed plant, equipment and tools</li> <li>Methodology for the proposed installation and demolition</li> <li>Foreseen risks and concerns</li> <li>Required temporary works (if any)</li> <li>Project specific health, safety and environment management plan</li> </ul>	
	The Technical Proposal indicates the Contractor's understanding of the works and scope to be executed.	
	The Technical Proposal is to clearly demonstrate the Contractor's compliance with the full scope of work as detailed in the technical specification	
<b>2</b>	<b>Contractor's Experience in the repair of concrete structures</b>	
	The risk of a contractor with no prior experience executing these works is unacceptable. A list of verifiable references within the last five (5) years must be provided for principal and/or subcontractors proposed indicating the following as a minimum: <ul style="list-style-type: none"> <li>Project name</li> <li>Description of work performed</li> <li>Project start and end date</li> <li>Name, designation and contact number of reference person</li> </ul>	
<b>3</b>	<b>Organogram/s of design and construction team</b>	
	Item identifies the role of each resource in order to evaluate them correctly	
<b>4</b>	<b>CV's qualifications and relevant experience of key personnel</b>	
	Item identifies relevant qualification and experience profile to demonstrate level of experience of resources. Supporting documents must include certified copies of ECSA certificates (and other relevant certificates and qualifications) and CV's.	

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