

	Strategy	Generation Engineering
---	-----------------	-------------------------------

Title: **Lethabo Power Station Tender Technical Evaluation Strategy for Carbon Online Grid Installation.**

Unique Identifier: **375-172886**

Alternative Reference Number: **25639629**

Area of Applicability: **Generation Engineering**

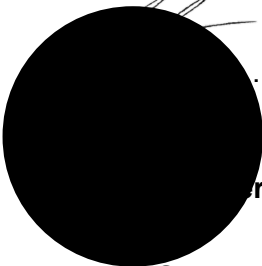
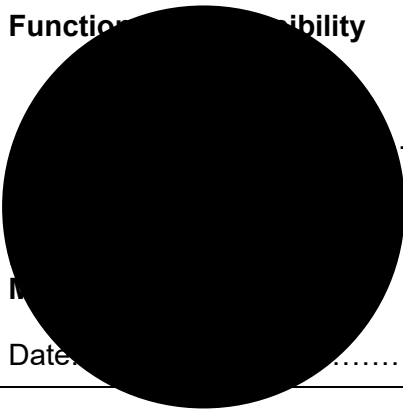
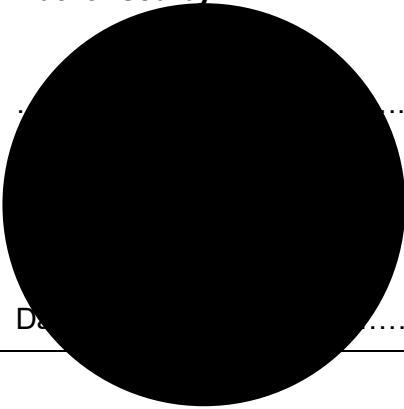
Documentation Type: **Strategy**

Revision: **0.1**

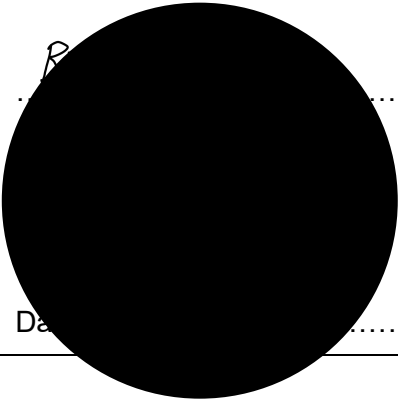
Total Pages: **11**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

Compiled by	Function	Responsibility	Authorised by
			
Date: 15 September 2026	Date:	Date:	

Supported by



Date:

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	4
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	4
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
TET MEMBER RESPONSIBILITIES	9
3.4.1 Risks	10
4. AUTHORISATION	11
5. REVISIONS	11
6. DEVELOPMENT TEAM	11
7. ACKNOWLEDGEMENTS	11

TABLES

Table 1: TET Members	5
Table 2: Mandatory Technical Evaluation Criteria	6
Table 3: Qualitative Technical Evaluation Criteria	7
Table 4: Scoring guide for TET	8
Table 5: TET Member Responsibilities	9
Table 6: Acceptable Technical Risks	10
Table 7: Unacceptable Technical Risks	10

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

1. INTRODUCTION

Carbon On-line Grid is a cyclone sampling system that is used to extract fly-ash from the economiser outlet flue gas ducts, to analyse the flue for carbon in ash (unburned coal). Fly ash sampling is a requirement for CO₂ emissions which is included in Eskom's Integrated Report and is used to compile an annual compliance greenhouse gases (GHG) emissions report submitted to the Department of Fisheries Forestry and Environment (DFFE). Lethabo Power Station is currently taking fly ash to comply to the Fossil Fuel Fired Regulation on first field of the electrostatic precipitator to mitigate noncompliance to fly ash analysing carbon in refuse. The document outlines the technical evaluation criteria for the procurement and installation the new isokinetic samplers as specified in the technical specification document.

The configuration of the new fly-ash samplers consists of the base plate which connects the sampling probe and the reject pipe to the economiser ducting. This is a compact system that consists mainly of the probe, the cyclone, the collecting jar, the reject line and the probe attached with a nozzle at the tip connected to a sampling tube with all components assembled on the base plate in mention.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document aims to provide guidance on the technical evaluation process to be followed when evaluating the tender submissions for Lethabo Power Station Carbon On-line Grid project. The detailed scope of work can be seen in the Works information.

High Level breakdown of the scope: Design, supply and installation of fly ash sampler.

The technical evaluation requirements consist of the following criteria:

- ☐ Mandatory Evaluation Criteria
- ☐ Qualitative Evaluation Criteria
- ☐ Acceptable / Unacceptable Technical Risks

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

The document applies to Lethabo Power Station and the Lethabo Carbon On-line Grid Sampler team.

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

2.2.1 Normative

- [1] 240-168966153: Generation Tender Technical Evaluation Procedure.
- [2] 240-48929482: Tender Technical Evaluation Procedure (Transmission and Distribution).
- [3] 32-1034 Eskom Procurement Policy.
- [4] 375-172849: Lethabo Power station Carbon On-line Grid Installation Technical Specification.

2.2.2 Informative

- [5] 240-53113685: Design Review Procedure.
- [6] 240-53114026: Project Engineering Change Management Procedure.
- [7] 240-53114002: Engineering Change Management Procedure.
- [8] ISO 9001 Quality Management Systems.

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
CIR	Carbon In Refuse
DFFE	Department of Fisheries Forestry and Environment.
FFFR	Fossil Fuel Firing Regulation.
ITP	Inspection and Test Plan.
QCP	Quality Control Plan.
QMS	Quality Management Systems.
TET	Technical Evaluation Team.

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

32-1033: Eskom Procurement and Supply Chain Management Policy.

32-1034: Eskom Procurement and Supply Management Procedure.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The tender submission must contain the mandatory criteria before being assessed on the qualitative criteria. The minimum weighted final score (threshold) required with regards to the qualitative criteria for a tender to be considered compliant from a technical perspective is 70%. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Bakang Moletsane	Boiler Plant Engineer.
TET 2	Pertunia Mokoena	Senior Technician Performance & Test.
TET 3	Mekateko Matjeke	Boiler Combustion Engineer.
TET 4	Victor Gaonamong	Senior Technician Performance & Test.
TET 5	Koketso Rampyeshe	Senior Process Engineer.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	YES	NO	Motivation for use of Criteria
1.	Demonstration of an auditable Quality Management System (QMS) compliant with ISO 9001 or equivalent quality management framework.	Technical specification 4.2.1 Valid ISO 9001 certificate or documented QMS, together with QCP/ITP applicable to manufacture and installation of the fly ash samplers.			Ensures that manufactured components are controlled, traceable and subject to quality assurance processes necessary for reliable operation of the Carbon Online Grid system.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Technical Specification / Tender Returnable	Weighting (%)	Sub-Weighting (%)	Score
1.	Compliance of Proposed Sampling System to Technical Specification			50		
	1.1	The proposed system meets the specified functional and performance requirements for representative fly ash sampling, including isokinetic sampling and cyclone separation.	Technical proposal, GA drawings and design description.		40	
	1.2	The proposed materials are suitable for the specified operating temperature, abrasive fly ash environment, mechanical loading and required service life.	Bill of materials, material datasheets and material-selection justification.		30	
	1.3	The proposed arrangement is compatible with the existing plant interfaces and provides safe access for operation, inspection, maintenance and sample collection.	Interface details as per GA and maintainability description.		30	
2.	Engineering Approach and Design Methodology			30		
	2.1	The engineering methodology adequately addresses design verification, sample representativity, erosion control, equipment integrity and integration with existing plant.	Design philosophy and methodology document.		70	
	2.2	The proposed execution approach adequately covers quality control for installation, commissioning, performance verification and handover.	Design package, installation method statement and commissioning plan.		30	
3.	Experience			20		
	3.1	The tenderer provided evidence of successful delivery of fly ash, PF, isokinetic particulate or comparable cyclone-based sampling systems.	Project reference schedule stating the client, scope, system supplied, completion date.		70	
	3.2	The tenderer provided evidence that previously supplied systems achieved the required operational and performance outcomes.	Completion certificates or performance reports, supported by contactable references.		30	
			TOTAL:	100		

Table 4: Scoring guide for TET

Score	%	Definition
5	100	Fully compliant. Meets all requirements with no foreseen technical risk.
4	80	Compliant with acceptable technical risks, conditions or exceptions.
2	40	Non-compliant, or contains unacceptable risks, conditions or exceptions.
0	0	Totally deficient or non-responsive.

TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5
1	X	X	X	X	X
2	X	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5
1.1	X	X	X	X	X
1.2	X	X	X	X	X
2.1	X	X	X	X	X
2.2	X	X	X	X	X
2.3	X	X	X	X	X
3.1	X	X	X	X	X
3.2	X		X		
3.3	X		X		

Foreseen Acceptable / Unacceptable Qualifications

3.4.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Alternative inspection or testing methods are proposed.
2.	Poor selection of fitting gaskets or joining processes.

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Modification to plant or damage to neighbouring systems.
2.	Material of construction: under-designed components.
3.	The proposed arrangement restricts safe operation, inspection, maintenance or sample collection.

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

4. AUTHORIZATION

This document has been seen and accepted by:

	Designation	
	Boiler plant engineering manager.	
	Performance & Test manager.	
	Project Co-ordinator Technical.	

5. REVISIONS

Date	Rev.	Compiler	Remarks
February 2025	0.0	B Moletsane.	To facilitate the procurement processes.
September 2026	0.1	B. Moletsane	Updated Technical Evaluation Criteria.

6. DEVELOPMENT TEAM

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

- Bakang Moletsane
- Remofiloe Ranaka
- Muhammad Laher

7. ACKNOWLEDGEMENTS

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.