Eskom	TECHNICAL EVALUATION CRITERIA	GROOTVLEI POWER STATION

Title: **Supply, delivery, and Installation of Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) instrument. Train staff on how to use it and service the supplied instrument for 60 months on as and when required basis.**

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1. Introduction

Grootvlei Power Station consists of 3 wet cooled units which produce 200MW each at full load, during the process of electricity generation, the station uses cation results from Inductively Coupled Plasma Optical Emission Spectroscopy to minimize scaling cations. These ions contribute to condenser scaling, that results in load losses. Grootvlei power station require this instrument to be able to perform the necessary chemistry monitoring.

2. Supporting Clauses

2.1 Scope

Supply, delivery of Inductively Coupled Plasma Optical Emission Spectroscopy, install instrument, train staff on how to use it and service the supplied instrument for 60 months on as and when required basis. Supply of consumables.

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 shall apply to Grootvlei Power Station.

2.1.3 Effective date

Not Applicable

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] The provision of Inductively Coupled Plasma Optical Emission Spectroscopy Instrument at Grootvlei Power Station, Water laboratory.

2.2.2 Informative

Not Applicable.

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
TET	Technical Evaluation Team
N/A	Not Applicable
ICP-OES	Inductively Coupled Plasma Optical Emission Spectroscopy
PBB	Parts Per Billion
PPM	Parts Per Million

2.5 Roles and Responsibilities

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 Process for Monitoring

Not applicable

2.7 Related/Supporting Documents

Not applicable

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THERESHOLD

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 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.

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 75% on Section 1 and 100% on section 2 of technical evaluation. Section 2 is considered the most important section since it talks more about instrument performance and production of reliable results.

3.2 TET MEMBERS

Table 1: TET MEMBERS

TET number	TET Member Name	Designation
TET 1	Sabelo Hlatshwayo	Snr Supervisor Tech Chemistry
TET 2	Mpho Netshidzati	Snr Supervisor Tech Chemistry
TET 3	Beverly Makaleng	Technician Chemistry

3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	**Motivation for use of Criteria**
1	Technical Data Sheet of the instrument including drawings and how it operates. (This must include full view of instrument)	Instrument that does not have technical data sheet does not give details of how it operates.
2	Supplier Must have workshop. (Show the pictures of the workshop and the address of the workshop)	Supplier workshop that will be used to repair instruments and testing.
3	Supplier Must be the OEM or having long term agreement with the OEM signed and stamped by OEM. Or The supplier is the sole supplier in South Africa.	This will help with after sale service for 60 Months.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

Detailed technical evaluation: Section one to be completed before visiting workshop of suppliers for Section 2

Section 1:

	Factor	Weight	feedback	Score of Weight	Suppliers Score		
1	Instrument able to detect the following elements or more in ppb and ppm from periodic table: Silver, Aluminium, Boron, Barium, Calcium, Cadmium, Cobalt, Chromium, Copper, Iron, Potassium, Magnesium, Sodium, Manganese, Lead, Zinc, and other elements	60%	Instrument detects all 16 mentioned elements and more.	100			
			Instrument detects 12 to 15 mentioned elements and more.	70			
			Instrument detects 8 to 11 mentioned elements and more	40			

			Instrument detects less than 8 mentioned elements and other more	10			
2	Instrument must use computer, Auto sampler, software and data stored in software with traceability.	40%	Uses computer, software in computer and Auto sampler. Data stored in computer and software for traceability	100			
			Instrument does not use computer with software to run instrument. But with Auto sampler	40			
			Instrument does not use computer with software to run	20			

			instrument. Without Auto sampler				
	Total	100%					

Threshold

The threshold on the technical evaluation criteria is 75%for section 1. Suppliers / Service providers would be deemed technically unacceptable if they score less than the threshold score and will thus not be evaluated further to section 2.

Section 2 All who passed section one technical evaluation will be evaluated further to section 2. End-user to visit workshops of suppliers to do analysis of supplier standards (ppb and ppm standard) using instrument that is similar to the one that is to be supplied to Grootvlei power station.

	Factor	Weight	feedback	Score of Weight	Suppliers Score		
1	Instrument analysing known concentration standard in PPB (ranges between 2.5ppb to 100ppb) and standard in PPM (1ppm to 1000ppm).	100%	Results within ±2 x standard deviation of true value.	100			
			Results above ±2 x standard deviation and below ±3 x standard deviation of true value.	70			
			Results reading outside control limits, above ±3 x standard deviation of true value.	10			
	Total	100%					

For supplier to be considered technical acceptable should pass the second section of technical evaluation by 100%. Suppliers who passed will be evaluated further.

Feedback:_____
_____
_____

Rating for Technical Criteria

Rating for Individual Technical Criteria	%
Completely Meets Technical Requirement	100
Mostly Meets Technical Requirement	75
Partially Meets Technical Requirement	50
Mostly Does Not Meet Technical Requirement	25
Does not Meet Technical Requirement	0

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	
Section 1			
1	X	X	X
2	X	X	X
3	X	X	X
Section 2			
1		X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

Table 5: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 6: Unacceptable Technical Risks

Risk	Description
1.	N/A

3.7 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

4. Acceptance

This document has been seen and accepted by:

5.Revisions

Date	Rev.	Compiler	Remarks
October 2025	1		Final Document

6. Development Team

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

7. Acknowledgement

None