Eskom	Strategy	Tutuka Power Station Engineering

Title	**Supply and delivery of Ion Chromatography Dual (IC) and Inductively Coupled Plasma (ICP) at Tutuka WTP Tender Technical Evaluation Strategy**	Unique Identifier	**15ENG GEN-2667**
		Alternative Reference Number	**N/A**
		Area of Applicability	**Tutuka Power Station**
		Functional Area	**Chemical Services**
		Revision	**0**
		Total Pages	**13**
		Next Review Date	**N/A**
		Disclosure Classification	CONTROLLED DISCLOSURE

Compiled by	Functional Responsibility	Supported by	Authorized by
ZP Mbatha Snr Supervisor Chemistry	NM Mukwevho Chemical Services Manager	MV Ntoampe Snr Chemist Chemistry	L Masote Engineering Manager
Date 02/02/2024	Date 05/02/2024	Date 02/02/2024	Date 05/02/2024

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TABLES

1. INTRODUCTION

Eskom water laboratories uses different equipment to analyse water samples depending on the specific analysis required and concentration levels , in order to monitor water quality for various processes within the water treatment plant and cycle chemistry The instruments need to be reliable and meet core instrument availability at all times, this is achieved by ensuring that instruments are replaced within a 10 year replacement plan as per the OEM to avoid obsolescence

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope is for the supply and delivery of the following laboratory instrumentation Ion Chromatography dual-high and low level (IC dual-high and low level) and Inductively Coupled Plasma (ICP).

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 to evaluate all tenders received from the Service Provider(s) in response to the Enquiry

2.1.2 Applicability

This document is applicable to all appointed and involved in the technical tender evaluation of tenders received from the Service Provider(s) in response to conduct the supply and delivery of Ion Chromatography dual (IC) and Inductively Coupled Plasma (ICP) instruments at Tutuka Power Station

2.1.3 Effective Date

When the document is authorised

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] 240-53716726 Technical Scoring Form,

[3] 240-53716712 Technical Evaluation Results,

[4] 240-48929482 Tender Technical Evaluation Procedure,

[5] 32-1034 Eskom Procurement Policy,

[6] Occupational Health and Safety Act No 85 of 1993

[7] ISO 9001 Quality Management Systems

2.2.2 Informative

[1] Analytical Chemistry equipment user requirement specification guideline (Unique identifier 240-165441379)

2.3 DEFINITIONS

Definition	Description
Employer	Tutuka Power Station
Principal Contractor	a As per OHS Act (85/1993)

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
OHS	Occupational Health and Safety
P&ID	Piping and Instrumentation Diagram
PS	Power Station
QCP	Quality Control Plan
Rev	Revision
SANS	South African National Standard

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482 Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

As per section 2 2

3. TENDER TECHNCIAL EVALUATION STRATEGY

The evaluation criteria will be based upon a two-step process

3.1 MANDATORY CRITERIA EVALUATION

All TET members as defined in the Tender Technical Evaluation Strategy (and specifically TET member responsibilities) shall independently evaluate each tender in terms of compliance to the defined Mandatory

Evaluation Criteria Each TET member shall provide an individual scoring form on the compliance / non-compliance of all tenderers' responses to the Mandatory Evaluation Criteria Each TET member shall provide clear justification(s) for each Mandatory Criteria evaluated as non-compliant ('NO') All individual scoring forms shall be evaluated to check for consistency in scoring of the Mandatory Evaluation Criteria Should there be inconsistency in the scoring, an internal clarification meeting shall be conducted with all TET members (who performed the evaluation) in the presence of the Commercial Representative This meeting shall aim to jointly establish which of the tenderers qualify for the next phase of Qualitative Technical Evaluation In the case where no tenderer meets all Mandatory Evaluation Criteria this shall be formally escalated to the Commercial Representative who shall guide the subsequent process All meeting minutes shall be recorded and distributed to the Commercial Representative and included in the Tender Technical Evaluation Report

3.2 QUALITATIVE CRITERIA EVALUATION

Tenderers that have met all the Mandatory Evaluation Criteria shall be evaluated against the Qualitative Criteria as defined in the Tender Technical Evaluation Strategy The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements A score shall be allocated as per Table 2 Qualitative Evaluation Criteria Scoring Table, for each technical qualitative criterion Each TET member shall populate a Tender Technical Evaluation Scoring Form [2] for each tenderer Note Individual Qualitative Criteria scores shall only be finalised after all clarification sessions have been concluded

Table 1: Qualitative Evaluation Criteria Scoring Table

Score	%	Definition
5	100	**COMPLIANT** Meet technical requirement(s) AND, No foreseen technical risk(s) in meeting technical requirements
4	70	**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 1 The scoring table does not allow for scoring of 1 and 3 Note 2 Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy		

3.3 TECHNICAL EVALUATION THRESHOLD

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

3.4 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Zinhle Mbatha	Senior Supervisor Chemistry
TET 2	Nthabiseng Ntoampe	Senior Chemist Chemistry
TET 3	Michael Mukwevho	Chemistry Manager
TET 4	Muhle Gina	System Engineer C&I engineering

3.5 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 3 Mandatory Technical Evaluation Criteria-N/A

3.6 QUALITATIVE TECHNICAL EVALUATION CRITERIA

		Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Su[illegible] Weighting (%)	
1			***Inductively Coupled Plasma (ICP)***			
		1 1	**Technical information**	**Technical returnables**	**40%**	**100%**
		1 1 1	• Application Able to analyse water (aqueous) samples specifically from various processes such as demineralised, potable, wastewater, cooling and raw water samples • Able to analyse Cations and Anions at PPM and PPM levels less than 0 5ppb Cu and less than 0 35ppb Fe • Must have an autosampler At least 50 sample positions excluding STDs and QCs	Submit instrument manual **Score distribution** No submission of instrument manual indicating the instrument ability samples specifically from various processes such as demineralised, potable, wastewater, cooling and raw water samples, analysis of both anions and cations at both PPM and PPB levels submission of instrument manual indicating the instrument ability samples specifically from various processes such as demineralised, potable,			

				wastewater, cooling and raw water samples, analysis of both anions and cations at both PPM and PPB levels		
		1 2	**General**		**60%**	**100%**
		1 2 1	• The company must confirm installation, training, after sales support/maintenance & service by a competent service technician/engineer • Availability of spares/parts • Company must supply 3 referrals of companies where an ICP was sold and commissioned • Company must have at least 5 year experience in the sales of ICP • The ICP instrument must be supplied with at least 2 year warranty Demonstration of the instrument before purchase, at the company's premises or client's premises	Previous reference letters from previous/current clients for supply and delivery of a ICP, certification of competence for the installation, training and after sales support technician/engineer to be provided, confirmation of availability of spares/parts, letter indicating that demonstration of the instrument will be allowed, confirmation of 2 year warranty for the ICP Score distribution No reference letter, confirmation of spares, confirmation of warranty, confirmation of instrument demonstration and confirmation of ins confirmation of installation, training and after sales support by a competent	40%	

				service technician/engineer=0 points Reference letter, confirmation of spares, confirmation of warranty, confirmation of instrument demonstration and confirmation of installation, training and after sales support by a competent service technician/engineer=5 points		
		1 2 2	• Software that can be integrated with LIMS	Submit instrument manual indicating that the instrument have software that can be integrated with LIMS **Score distribution** No submission of instrument manual indicating the instrument software that can be integrated into LIMS=0 points Submission of instrument manual indicating the instrument	20%	

				software that can be integrated into LIMS=5 points			
					Total=100		
2			***Ion Chromatography Dual (High and Low level)***				
		2 1	**Technical information**	**Technical returnables**	**40%**		**100%**
			• Application Able to analyse water (aqueous) samples specifically from various processes such as demineralised, potable, wastewater, cooling and raw water samples • Able to detect Cations and Anions at ppm and ppb levels as well as less than 0 05ppb concentrations for Chlorides and Sulphate • Must have an autosampler At least 50 sample positions excluding STDs and QCs	Submit instrument manual **Score distribution** No submission of instrument manual indicating the instrument ability samples specifically from various processes such as demineralised, potable, wastewater, cooling and raw water samples, analysis of both anions and cations at both PPM and PPB levels and an autosampler functionality with 50 sample positions submission of instrument manual indicating the instrument ability samples specifically from various processes such as demineralised, potable,			

				wastewater, cooling and raw water samples, analysis of both anions and cations at both PPM and PPB levels and an autosampler functionality with 50 sample positions		
		2.2	**General**		**60%**	**100%**
		2 2 1	• The company must confirm installation, training, after sales support/maintenance & service by a competent service technician/engineer • Availability of spares/parts • Company must supply 3 referrals of companies where a dual IC was sold and commissioned • Company must have at least 5 year experience in the sales of IC instrument • The IC instrument must be supplied with at least 2 year warranty • Demonstration of the instrument before purchase, at the company's premises or client's premises	Previous reference letters from previous/current clients for supply and delivery of a IC, certification of competence for the installation, training and after sales support technician/engineer to be provided, confirmation of availability of spares/parts, letter indicating that demonstration of the instrument will be allowed, confirmation of 2 year warranty for the IC **Score distribution** No reference letter, confirmation of spares, confirmation of warranty, confirmation of instrument demonstration and confirmation of ins confirmation of installation, training and after	40%	

				sales support by a competent service technician/engineer=0 points Submission of a reference letter, confirmation of spares, confirmation of warranty, confirmation of instrument demonstration and confirmation of ins confirmation of installation, training and after sales support by a competent service technician/engineer=0 points			
		2 2 2	Software that can be integrated with LIMS	Submit instrument manual indicating that the instrument software can be integrated with LIMS **Score distribution** No submission of instrument manual indicating the instrument software can be integrated into LIMS=0 points Submission of instrument manual indicating the instrument	20%		

				software that can be integrated into LIMS=5 points			
					Total=100		

3.7 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

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

3.8 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.8 1 Risks

Table 5 Acceptable Technical Risks

Risk	Description
1	None

Table 6 Unacceptable Technical Risks

Risk	Description
1	Contactor not having experience in supply and delivery of ion chromatography and inductively coupled plasma at a power generating industry

3.8 2 Exceptions / Conditions

Table 7 Acceptable Technical Exceptions / Conditions

Risk	Description
1	None

Table 8 Unacceptable Technical Exceptions / Conditions

Risk	Description
1	Inability to execute the required works as per scope of work issued [1]

4. ACCEPTANCE

This document has been seen and accepted by

Name	Designation	
Nthabiseng Ntoampe	Senior Chemist Chemistry	
Zinhle Mbatha	Senior Supervisor Chemistry	
Muhle Gina	System Advisor C&I Engineering	
Michael Mukwevho	Chemistry Manager	

5. REVISIONS

Date	Rev.	Compiler	Remarks
03 January 2024	0	Zinhle Mbatha	Requirement as part of the procurement procedure

6. DEVELOPMENT TEAM

The following people were involved in the development of this document

7. ACKNOWLEDGEMENTS

N/A