Eskom	Tutuka Power Station Strategy	Engineering

Title:	**Tender Technical Evaluation Strategy for C&I Outage Resources at Tutuka Power Station**	Unique Identifier:	**15ENG C&I-8038**
		Alternative Reference Number:	**N/A**
		Area of Applicability:	**Outages**
		Documentation Type:	**TES Strategy**
		Revision:	**02**
		Total Pages:	**15**
		Next Review Date:	**N/A**
		Disclosure Classification:	**CONTROLLED DISCLOSURE**

Compiled by	**Functional Responsibility**	**Authorised by**
Date: ……	Date: ……	Date: ……

CONTENTS

TABLES

1. INTRODUCTION

This document provides the technical mandatory and qualitative criteria on which to evaluate potential contractors for the control and instrumentation resources during outages at Tutuka Power Station. This includes Turbine Plant, Turbine Auxiliary, Boiler Feed Water Pumps and their Auxiliaries, Condensate Polishing Plant, Boiler and associated plant and Coal plant.

1.1 SCOPE

This document will only cover the technical tender evaluation criteria for the Tutuka PS C&I Outage resources contract.

1.1.1 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.

1.1.2 Applicability

The document will apply to the Tutuka Turbine plant, Turbine Auxiliary, Boiler Feed Water Pumps and their Auxiliaries, Condensate Polishing Plant, Boiler Plant and Boiler Auxiliaries Coal Incline and Coarse Ash Handling Plant.

1.2 NORMATIVE/INFORMATIVE REFERENCES

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

1.2.1 Normative

[1] 240-48929482: Tender Technical Evaluation Procedure

[2] 240-53716726: Tender Technical Evaluation Scoring Form

1.2.2 Informative

[1] N/A

1.3 DEFINITIONS

1.3.1 Classification

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

1.4 ABBREVIATIONS

Abbreviation	Description
CoE	Centre of Excellence
C&I	Control and Instrumentation
EDWL	Engineering Design Work Lead
ISO	International Standards Organisation
OHSA	Occupation Health and Safety Act
TET	Technical Evaluation Team

1.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure [1].

1.6 PROCESS FOR MONITORING

N/A

1.7 RELATED/SUPPORTING DOCUMENTS

N/A

2. TENDER TECHNICAL EVALUATION STRATEGY

2.1 TECHNICAL EVALUATION METHOD

The evaluation method will be based on similar projects done by the tenderers in the past. The tenderers will need to provide the necessary documentation proof of being able to execute the Control and Instrumentation scope as outlined in the outage scope of work developed by C&I engineering. The tendering contractors have to proof that the onsite technical team have been interviewed and passed the minimum requirements during tendering process. A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

a) Control and Instrumentation Outage Resource Contractor: 100%

The evaluation of the tender submission will be based on the tenderer's ability to meet the C&I Outages scope execution requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

The scoring method will be as follows:

Score	Points awarded
5	**100**
4	**80**
2	**40**
0	**0**

2.2 TECHNICAL EVALUATION THRESHOLD

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

2.3 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1		C&I Maintenance Supervisor
TET 2		C&I Maintenance Supervisor
TET 3		C&I Senior Technician
TET 4		Senior Advisor Outage Coordinator

2.4 MANDATORY TECHNICAL EVALUATION CRITERIA

Mandatory Technical Evaluation Criteria is not applicable

2.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 2: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Tender Returnable	Criteria Weighting (%)	Score	Sub Criteria Weighting (%)
1.	**Combined Technical Team Experience**			**30%**		
	1.1	Years' C&I maintenance experience on Power Stations or Production plants. As a minimum the reference list must contain: - Contact person(s) - Contact Number(s) - Detailed description of work experience	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating knowledge and experience.	>5 Years	5	30%
				3-4 Years	4	
				1-2 Years	2	
				No Experience	0	
				Sub score:		
	1.2	Years' C&I maintenance and protection experience on Boiler and Turbine Plants. As a minimum the reference list must contain: - Contact person(s) - Contact Number(s) - Detailed description of work experience	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating knowledge and experience.	>5 Years	5	40%
				3-4 Years	4	
				1-2 Years	2	
				No Experience	0	
				Sub Score:		
	1.3	Supervisor, Senior Technicians and Technicians' experience on Boiler and Turbine protections and experience on Peabody Oil Burners and Plant Safety Regulations (PSR). As a minimum the reference list must contain: - Contact person(s) - Contact Number(s) - Detailed description of work experience	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating knowledge and experience.	>5 Years	5	30%
				3-4 Years	4	
				1-2 Years	2	
				No Experience	0	
				Sub Score:		

2.	**Individual Technical Team Members Experience**			**40%**		
	2.1	**Supervisor:** Plant Certification At least one member of the team must have both boiler fuel oil burners training certificate and SAQCC gas equipment installation certificate/license Years of experience in supervising a high-performance C&I Maintenance team. • Controlling daily work plan activities. • Supervising staff. • Implementing plant safety programs. • Verifying info on work orders are correct.	Certified copies of boiler fuel oil burners certificate and SAQCC gas installation certificate/license Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating required knowledge and experience.	>5 Years	5	25%
				4-5 Years	4	
				2-4 Years	2	
				0-2 Years	0	
					Sub score:	
	2.2	**Senior Technician and Technician:** Years' experience in fault finding and maintenance on the following **Protection** systems: • Siemens Teleperm C Boiler Protection. • ABB P14 Boiler Protection. • ABB P14 Turbine Protection.	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating required knowledge and experience.	>4 Years on all 3 systems	**5**	10%
				>4 Years on 2/3 systems	**4**	
				>4 Years on 1/3 systems	**2**	
				No Experience	**0**	
					Sub score:	
	2.3	**Senior Technician and Technician:** Years' experience in fault finding and maintenance on the following Control systems:	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references	>4 Years	**5**	5%
				3-4 Years	**4**	
				1-2 Years	**2**	

		• Siemens Teleperm C and Iskamatic B	clearly indicating required knowledge and experience.	No Experience	**0**	
					Sub score:	
	2.4	**Senior Technician and Technician:** Years' experience in fault finding and maintenance on the following DCS systems: • ABB P14 Pro-control	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating required knowledge and experience.	>4 Years	**5**	5%
				3-4 Years	**4**	
				1-2 Years	**2**	
				No Experience	**0**	
					Sub score:	
	2.5	**Senior Technician and Technician:** Years' experience in fault finding and maintenance on the following Turbovisory systems: • GEC Type7 • Bentley Nevada 3500 MHME	Competency certificate (Nated Diploma or National Diploma and/or Trade Certificate) and/or CV with references clearly indicating required knowledge and experience.	>3 Years on 2/2 systems	**5**	5%
				>3 Years on 1/2 systems	**4**	
				1-2 Years on 1/2 systems	**2**	
				No experience	**0**	
					Sub score:	
	2.6	**Mechanician (All):** Years' experience in fault-finding, maintenance and stroking of the following pneumatic positioners: • Fischer Pneumatic positioners. • ABB TZID • Siemens SIPART. • Metso	Competency certificate (Nated Diploma and/or Trade Certificate) and/or CV with references clearly indicating required knowledge and experience.	>3 Years on all four systems	**5**	10%
				>3Years on ¾ systems	**4**	
				>3 Years on 2/4 systems	**2**	
				>3 Years on ¼ systems	**0**	
					Sub score:	
	2.7	**Mechanician (All):** Years' experience in fault-finding and maintenance on Smart/HART field instrumentation.	Competency certificate (Nated Diploma and/or Trade Certificate) and reference able CV clearly indicating knowledge and experience.	>4 Years	**5**	5%
				3-4 Years	**4**	
				1-2 Years	**2**	
				No Experience	**0**	

				Sub score:		
	2.8	**Mechanician (Outside/Plant):** Years' experience in fault-finding and maintenance on Submerged Scraper Conveyor and Coarse Ash Conveyor plant.	Competency certificate (Nated Diploma and/or Trade Certificate) and reference able CV clearly indicating knowledge and experience.	>4 Years	**5**	5%
				3-4 Years	**4**	
				1-2 Years	**2**	
				No Experience	**0**	
	2.9	**Safety Officer:** Years' experience in safety management. National Diploma in Safety Management with a minimum of 2 years' experience.	Competency certificate (Nated Diploma in Safety Management and reference on CV clearly indicating knowledge and experience.	>4 Years	**5**	20%
				3-4 Years	**4**	
				1-2 Years	**2**	
				No Experience	**0**	
	2.10	**Mechanician (Turbine & Boiler.):** Years' experience in fault-finding and maintenance of hydraulic powered valves and drives. (HP By-pass, LP By-pass and Electro Hydraulic Governor valves and Hagglund drives).	Competency certificate (Nated Diploma and/or Trade Certificate) and reference able CV clearly indicating knowledge and experience.	3-4 Years	**4**	10%
				1-2 Years	**2**	
				No Experience	**0**	
				>3 Years on ¼ systems	**0**	
				Sub score:		
3.	**Qualitative Technical Criteria Description**			**Criteria Weighting**	**Score**	**Sub Criteria Weighting (%)**
	Method Statement.		**Tender Returnable**	**30%**		
	3.1	**Organogram:** Detailed organogram indicating each role of the maintenance team related to this contract: Must clearly indicate qualifications and experience of the individual's for the dedicated plant areas (Turbine, Boiler, and Outside Plant) within the organogram.	Organogram to be supplied	Organogram supplied with all team members with their respective qualifications and roles shown in organogram. Representing an experienced supplier confirming skilled and qualified resources as required within power industry.	5	15%

				No organogram supplied	0	
				Sub score:		
	3.2	**Work force selection:** Detailed method statement indicating how the company ensure a qualified, competent team selection for the required scope of work on the different plant areas for this contract.	Method statement	Method statement clearly indicating internal processes and company requirements for required positions	5	40%
				Method statement not supplied	0	
				Sub score:		
	3.3	**Workweek Management:** Method statement indicating the process to be used by the Supervisor to control the workload within the section as to comply with Eskom's workweek management requirements.	Method statement	Method statement clearly indicating internal processes ensuring compliance to Eskom requirements.	5	15%
				Method statement not supplied	0	
				Sub score:		
	3.4	**Transportation:** Method statement indicating internal processes to safely transporting workforce to Tutuka site during normal working hours and after hours during Standby, ensuring compliance to National and Eskom specific vehicle safety.	Method statement	Method statement clearly indicating internal processes ensuring compliance to Eskom requirements.	5	15%
				Method statement not supplied	0	
				Sub score:		
	3.5	**Field Instrumentation:** Method statement for maintenance, inspection & testing of the following instrumentation: Thermocouple loops & Controllers.	Method statement	Method statement for all maintenance and inspection/testing supplied	5	15%
				Method statement not supplied	0	
				Sub score:		

	3.6	**Field Instrumentation:** Method statement for maintenance, inspection & testing of the following instrumentation: Pressure transmitters; Flow transmitters; DP Transmitters; Positioners (electronics pneumatic) and pressure switches	Method statement	Method statement for all maintenance and inspection/testing supplied	5	5%
				Method statement not supplied	0	
				Sub score:		
				TOTAL: 100		

2.6 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
Not applicable				
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**
1.1	X	X	X	X
1.2	X	X	X	X
1.3	X	X	X	X
2.1	X	X	X	X
2.2	X	X	X	X
2.3	X	X	X	X
2.4	X	X	X	X
2.5	X	X	X	X
2.6	X	X	X	X
2.7	X	X	X	X
2.8	X	X	X	X
2.9	X	X	X	X
2.10	X	X	X	X
3.1			X	
3.2	X	X	X	X
3.3	X	X	X	X
3.4				

3.5	X	X	X	X
3.6	X	X	X	X
3.7	X	X	X	X

2.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

2.7.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	**20% of Mechanician not meeting all the requirements.**
2.	**Contractor meeting 70% or more for all criteria.**

Table 52: Unacceptable Technical Risks

Risk	Description
1.	**Contractor not having technical qualifications**
2.	**Contractor not having required experience in instrumentation and control field**

2.7.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**Material not meeting Eskom standards**
2.	**Unsafe work practices**

3. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
	C&I Senior Supervisor
	C&I Senior Supervisor
	C&I Senior Supervisor
	C&I Senior Technician
	Engineering Manager
	Senior Advisor Outage Coordinator

4. REVISIONS

Date	Rev.	Compiler	Remarks
August 2025	01	Mboneni Ngwenyama	To define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation
March 2026	02	Mboneni Ngwenyama	Corrected scoring, updated Safety Officer criterion and revised Technicians scoring

5. DEVELOPMENT TEAM

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

6. ACKNOWLEDGEMENTS

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