Eskom	Strategy	Engineering

Title: **Tender Technical Evaluation Strategy for Kusile Fuel Filling Station**

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CONTENTS

TABLES

1. INTRODUCTION

This strategy defines the Technical Evaluation Team (TET), their responsibilities and the criteria to be used to evaluate the Kusile Fuel Filling Station project Engineering, Procure and Construct (EPC) turnkey tender.

An invite will be issued calling for interested parties to participate in the tender process for the design, procurement, fabrication, manufacture, factory testing, storage, delivery to Kusile Power Station site, off-loading, erection, installation, site testing, cold and hot commissioning, project management, and quality control of a fully functional Fuel Filling Station at Kusile Power Station. This document sets out the method and criteria that will be used to evaluate the tenders that will result from the enquiry invite.

2. SUPPORTING CLAUSES

2.1 SCOPE

This strategy defines the TET, their responsibilities, and the criteria to be used to evaluate the Kusile Fuel Filling Station project.

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 strategy document applies to the engineering team working on the Kusile Fuel Filling Station project.

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] 32-1034: Eskom Procurement Policy

2.2.2 Informative

[3] 366-3352: Stakeholder Requirements Definition for the Kusile Fuel Filling Station Project

[4] 240-142010037: Technical Specification for Kusile Fuel Filling Station

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
C&I	Control & Instrumentation
CoE	Centre of Excellence
DCS	Distributed Control System
EMP	Environmental Management Plan
EPC	Engineer, Procure & Construct
kV	Kilovolt
LDE	Lead Discipline Engineer
NTT	Notes To Tender
OEM	Original Equipment Manufacturer
PEIC	Production Engineering Integration Coal
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

Compiler	The document compiler is responsible for ensuring that this document is up-to-date and that this document is not a duplication of an existing documentation, regarding the document's objectives and content.
Functional Responsibility (CoE Manager)	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation.
Authoriser (Senior Manager)	The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorise the release and application of the document.
Lead Discipline Engineers	Provide input to the technical tender evaluation strategy and associated engineering activities.
Configuration Management Lead	Is accountable for ensuring that the engineering documentation, engineering systems and databases are correctly configured. As part of this role, the Configuration Practitioner is responsible for the development of the configuration management plan; configuration and management of the PBS and the management of plant item Tags.

2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by Design Review Procedure (240-53113685), this entails assuring that the design achieves the requirements set out in this document. Any changes to this document will be performed as per Project Engineering Change Management Procedure (240-53114026).

2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2.

3. TENDER TECHNICAL EVALUATION STRATEGY

TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70% as defined in the Tender Technical Evaluation Procedure (240-48929482).

To be eligible for evaluation, the tenderer shall meet all the mandatory requirements.

The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified in the Kusile Filling Station Technical Specification. A weighted score card approach will be used to evaluate the tenders against the Employer's requirements. The following scoring method will be used in general. It will be specified where other scoring methods is used.

Table 1: Scoring Method

SCORE	PERCENTAGE	DESCRIPTION
5	100	**COMPLIANT** • Meet technical requirement(s)/AND; • No foreseen technical risk(s) in meeting technical requirements.
4	80	**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**

The evaluation scores will be weighted as follows according to disciplines:

Table 2: Evaluation Scores

Technical (100%)	
6.1 Civil	50%
6.2 Mechanical	40%
6.3 Control & Instrumentation	10%
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

4. TECHNICAL EVALUATION TEAM MEMBERS

Table 3: TET Members

TET number	**Designation**
TET 1	Senior Engineer: Civil Engineering
TET 2	Engineer: Civil Engineering
TET 3	Chief Engineer: Low Pressure Services Engineering
TET 4	Engineer: Low Pressure Services Engineering
TET 5	Senior Engineer: C&I Engineering
TET 6	Engineer: C&I Engineering

5. MANDATORY TECHNICAL EVALUATION CRITERIA

To be eligible for evaluation, the tenderer shall meet the gatekeepers specified on the table below:

Table 4: Mandatory Evaluation Criteria

	Mandatory Technical Criteria Description	Source of Evidence	Motivation for use of Criteria
1.	Tenderer submits a letter stating confirmation to full compliance to the scope of work, National & International Standards and Eskom Technical Requirements & Specifications that are relevant	• Provides a signed letter of full compliance to the scope of works; National & International Standards, and Eskom requirements & specifications without any exclusions	Demonstrates full responsibility and accountability to the full scope of works.
2.	Submission of bidder's relevant experience in the design and construction of projects related to fuel filling stations with underground storage tanks. List of verifiable references must be provided (including as a minimum: client, contact details of client, duration and location, and project description) indicating the Contractor's capability and experience.	• Provide at least of one (1) reference indicating completion of similar scope of works. • • Proof of completion shall contain the following information for evaluation purposes: • • 1) Name of Client where project was executed • 2) Project Description • 3) Construction period • 4) Contract value • 5) Contact person	Ensures Design and Construction Integrity including Contractor's Capability and Experience

6. QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

- Where no information is offered by the Tenderer, no points shall be scored.

6.1 CIVIL & STRUCTURAL (50%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
6.1	**Civil & Structural Evaluation Criteria**				
6.1.1	**Design**:	**20%**			
6.1.1.1	The tenderer submits the qualifications and previous work experience of the Lead Civil or Structural Design Engineer		40%	1. CV of the Lead Civil or Structural Design Engineer (At least 5 years relevant experience post registration). 2. All relevant and valid registration certificates (At least 5 years' relevant experience post registration).	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.1.1.2	Design Methodology for the design of civils and structural works: The Design Methodology is to clearly provide typical details of the design method to be followed.		60%	1. Typical design methodology to be used for: a) Proposed Geotechnical Investigations and Safe Underground Excavations. b) Sketch of Proposed General Arrangement for all Equipment (underground storage tanks, fuel dispensers, oil separators, offloading slab, piping route and digital tyre inflator. c) Proposed Civil and Structural Works execution plan which includes high level list and schedule of deliverables. d) Proposed Construction Supervision and Design Assurance, highlighting all intervention points	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.

6.1.2	**Construction**	**30%**			
6.1.2.1	Typical construction methodology clearly detailing the construction approach and method to be adopted for all related civil and structural infrastructures.		60%	1. Typical construction methodology, typical method statements for the execution of works: a) Submit typical method statement for Civil and structural works (excavation works, concrete works, structural steel works and storage tanks fabrication & installation) and clearly demonstrating due care for already existing infrastructure. b) Submit typical inspection and test plans for construction activities detailing interventions and inspection by the Contractor, Sub-Contractor and the Employer. c) Submit typical risk assessment for construction activities and risk management plan. d) Submit Commissioning and Handover process to be used	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.1.2.2	Contractor's including subcontractor's previous experience of similar civil and structural works including underground storage tanks **(At least in the 10 years).**		20%	Proof of completion shall contain the following information for evaluation purposes: 1) Name of Client where project was executed 2) Project Description 3) Construction period 4) Contract value 5) Contact person (*Provide a list of verifiable references or signed completion certificates*)	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.1.2.3	Project Manager Professionally Registered with SACPCMP (At least 5 years relevant experience post registration).		20%	Tender Returnable include: • CV of the Project Manager • Attach copies of relevant and valid registration certificate/s	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.

6.2 MECHANICAL EVALUATION CRITERIA (40%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
6.2	**Mechanical Evaluation Criteria:**	**40%**			
6.2.1	Mechanical Construction Scope Capacity. Tenderer submits Typical Method Statements which clearly provides details of the construction method to be adopted to execute the Works.		50%	Tenderer to submit a typical method statement encompassing the activities listed below as a minimum, provide details including typical data sheets for the proposed equipment: 1) Fabrication & Installation of underground storage tanks 2) Fabrication & Installation of all piping and piping supports (where applicable), pumps, valves, dispensers, oil separators, digital pre-set tyre inflator and any other ancillary mechanical equipment's fabrication and installation. 3) Welding and Bolting (where required) 4) Hydrostatic and/or Pressure testing (where required) 5) Flushing and Cleaning of Piping	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.2.2	CV of Mechanical Engineering Resources dedicated to this project and ECSA registration status.		25%	The tenderer to submit, as a primary contractor or as part of a joint venture, the following information for verification purposes: 1. CV of the Mechanical Engineer with a minimum of five years related experience. 2. ECSA professional registration (Pr.Eng/Pr. Tech Eng) of the Mechanical Engineer	
6.2.3	Mechanical Design Scope Capacity. Tenderer submits Previous Typical design documentation: 1) HAZOP Report 2) FMECA Report 3) Pipe & Instrumentation and General Arrangement Drawings 4) Operating Philosophy		25%	Mechanical Design Scope Capacity. Tenderer submits Previous Typical design documentation: 1) HAZOP Report 2) FMECA Report 3) Pipe & Instrumentation and General Arrangement Drawings 4) Operating Philosophy	

6.3 CONTROL AND INSTRUMENTATION EVALUATION CRITERIA (10%)

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
6.3	**Control and Instrumentation Evaluation Criteria**	**10%**			
6.3.1	Propose operating concept of Fuel Management System		50%	Provide typical operating concept of Fuel Management System capable of performing the following functions: 1. Identify the Filling Station Operator to prevent unauthorized use of fuel. 2. Identify the vehicle being filled. Only authorized Eskom Fleet vehicles shall be filled at this Filling Station. 3. Only authorized individual(s) should be able to override the system. 4. Proposal of how Fuel Management System data will be captured and extracted for reporting purposes.	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.3.2	Tenderer submits the typical Fuel Station Network Architecture		12.5%	Tenderer submits the typical Fuel Station Network Architecture	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.3.3	Tank level measurement methodology to be used		12.5%	Tenderer submits the Typical Tank Level Measurement Details	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.
6.3.4	Location of C&I Equipment and Environmental and Hazardous Location Protection		25%	Tenderer submits a signed declaration that the C&I Equipment will be suitable for environment it is located and operated in.	**Please refer to Appendix A:** Fuel Filling Station Tender Technical Evaluation Scorecard.

7. TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
5 (1)	X	X	X	X	X	X
5 (2)	X	X	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 6**
6.1 Civil & Structural	X	X				
6.2 Mechanical			X	X		
6.3 C&I					X	X

A. FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

i. Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Exclusions of scope specified in the employers' requirements
2.	Irrelevant design and construction experience in relation to the Employers' issued scope of work

ii. Exceptions / Conditions

Table 8: Acceptable Technical Exceptions/ Conditions

Risk	Description
	N/A

Table 9: Unacceptable Technical Exceptions/ Conditions

Risk	Description
1.	N/A

8. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
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9. REVISIONS

Date	Rev.	Compiler	Remarks
February 2024	0	T Mgangxela	First Draft
February 2024	1	T Mdlalose	Final Report

Date	Rev.	Compiler	Remarks
April 2024	2	T. Mdlalose	Updated comments from the committee

10. DEVELOPMENT TEAM

All Technical Evaluation Team Members, as listed in Table 1, were involved with the development of this document.

11. ACKNOWLEDGEMENTS

N/A

APPENDIX A: FUEL FILLING STATION TECHNICAL EVALUATION SCORECARD