Eskom	Strategy	Engineering

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	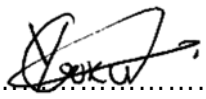	
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TABLES

1. INTRODUCTION

Due to conditions on-site, specific design changes are necessary to ensure that all designs meet the prescribed standards and Clients requirements.

An Enquiry will be issued to request for tenderers to submit bids for this additional scope at Kusile Power Station. This document sets out the method and criteria that will be used to evaluate all the tenders resulting from an open Enquiry.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the Miscellaneous Building Structures at Kusile Power Station. The scopes of the project are as described in the Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05, Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01 and Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04.

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 a basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to the Tender Evaluation Team for the Kusile Power Station Miscellaneous Building Structures (Phase 2), FGD WWTP Solid Waste Holding Facility and the Mill Maintenance.

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

2.2.2 Informative

[2] 366-423660: Kusile Power Station Technical Specification Miscellaneous Building Structures (Phase 2)

[3] 366-420791: Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification

[4] 366-449731: Kusile Power Station Mill Maintenance Technical Specification

2.2.3 Classification

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

2.2.4 Enquiry

A competitive or non-competitive request for information, interest, quotations, or proposals made to a supplier, a group of suppliers or the market at large.

2.2.5 Tender

A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

2.3 ABBREVIATIONS

Abbreviation	Description
CQA	Construction Quality Assurance
ITP	Inspection Test Plan
QCP	Quality Control Plan
PEC	Professional Engineering Certificate
SHEQ	Safety, Health, Environment and Quality
TET	Technical Evaluation Criteria
WBS	Work Breakdown Structure
WWTP	Wastewater Treatment Plant

2.4 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	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.
Technical Evaluation Team (TET) member	The delegated engineers / technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy

2.5 PROCESS FOR MONITORING

N/A

2.6 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

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 Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05, Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01 and Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04. 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 minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 70%.

The evaluation scores will be weighted as follows per disciplines:

Table 2: Weighted percentages according to disciplines

Technical (100%)	
1. Civil, Structural & Geotechnical Engineering	65%
2. Electrical Engineering	15%
3. LPS Engineering	10%
4. Controls & Instrumentation	5%
5. System Integration	5%
TOTAL (100%)	

Overall minimum threshold for qualification (70%)

3.2 TET MEMBERS

Table 3: TET Members – Civil, Structural & Geotech Engineering

TET number	TET Member Name	Designation
TET 1	Thabani Mdlalose	Lead Discipline Engineer: Civil
TET 2	Nhlanhla Tshabalala	Senior Civil Engineer
TET 3	Sbusiso Mabena	Site Civil Engineer
TET 4	Zinikele Mbotshelwa	Engineering Geologist

Table 4: TET Members – Electrical Engineering

TET number	TET Member Name	Designation
TET 5	Navash Brigman	Senior Electrical Engineer
TET 6	Nonkqubela Mqikela-Mjiwu	Electrical Engineer

Table 5: TET Members – LPS Engineering inclusive of Fire Protection

TET number	TET Member Name	Designation
TET 7	Tiyani Malwandla	Mechanical Engineer
TET 8	Dhiresh Ram	Mechanical Engineer (Fire)

Table 6: TET Members - C&I Engineering

TET number	TET Member Name	Designation
TET 9	Preshen Moodley	Senior Engineer: C&I
TET 10	Tseliso Msimanga	C&I Engineer

Table 7: System Integration

TET number	TET Member Name	Designation
TET 11	Vusi Lubisi	Senior Advisor: Design Tools
TET 12	Tshisikhawe Makwarela	Engineer Industrial

Table 8: Optional TET Members

TET number:	TET Member Name	Designation
TET 13: Civil Engineering	Phathamandla Sithole	Civil Engineer
TET 14: LPS Engineering	Willie van der Heever	Lead Discipline Engineer: LPS
TET 15: Electrical Engineering	Goldstone Khumalo	Lead Discipline Engineer: Electrical
TET 16: C&I Engineering	Sugan Moodley	Lead Discipline Engineer: C&I
TET 17: System Integration	Shamita Lalla	Technical Lead: System Integration

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Tender Returnable	Motivation for use of Criteria
1.	Signed compliance letters confirming full compliance to the scope of works without any exclusions.	Provide a signed letter of compliance without any exclusions to Eskom's requirements/specifications, as per: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. • Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. • Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04	• Demonstrates compliance to the full scope of works, national and international standards and Eskom Technical Requirements, without any exclusions to the scope of works. • Ensures adherence to minimum standards
2.	Provide a list of references of similar works for a minimum of one project completed in the last 10 years. *Submission of bidder's relevant experience in the design and construction of projects related to roads, earthworks, reticulation, civils & architectural and structural steelworks.*	Provide at least one proof of completion for projects undertaken. Proof of completion shall contain the following information for evaluation purposes: 1) Name of company where project was executed 2) Project Description 3) Construction period 4) Contract value 5) Contact person Summary of the above information in table format As per: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. • Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. • Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04	Demonstrate tenderer's ability to complete scope of work successfully

QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

1. An undertaking is required that resources identified would not be changed on award of the Contract.
2. The CV's of Key Personnel should have experience which is comparable in nature to the Works specified in this tender.
3. It is a requirement that the key personnel, in particular, have good communication skills in the English language.
4. Where no information is offered by the Tenderer no points shall be scored.

3.3.1 Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	**Civil Engineering:** Miscellaneous Building Structures modification works, Mill Maintenance & FGD WWTP Solid Waste Holding Facility			**65**	
	1.1	**Typical Method Statements:** The typical method statements shall provide typical details of the design & construction methods to be adopted to execute the Works. The typical method statements show correlation with the project programme. Typical method statements to be provided for the following civil and structural works: - Road and Earthworks - Piling Design & Construction - Concrete and Brickworks construction - Steel structure construction	Provide 3 Typical Method statements for the works to be designed and executed. As per: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. • Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01.		50

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
		Minimum High-Level requirements: - Construction approach/Description of the Works - Resource Responsibilities - Plant requirements where applicable	• Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		
	1.2	**Construction Experience in Comparable Projects:** A description of projects, with similar work that has been successfully completed in the last 10 years, including a list of verifiable references. This is inclusive of the subcontractor's records for works where services of a subcontractor will be utilised	Provide at least three testimonial(s) or Completion Certificate(S) or verifiable reference list as proof for projects undertaken. Testimonial(s) or completion or verifiable reference list certificates shall contain the following information for evaluation purposes: 1) Name of company where project was executed 2) Project Description 3) Construction period 4) Contract value 5) Contact person Summary of the above information in table format As per: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		50

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2	**Electrical Engineering:** Miscellaneous Building Structures modification works, Mill Maintenance & FGD WWTP Solid Waste Holding Facility			**15**	
	2.1	**The Contractor to provide the CV of the Professional Electrical Engineer/Technologist:** Who will work on this project. The Engineer's CV must show experience in design and construction of electrical plant (eg. electrical reticulation, cabling, racking, switchgear, motors, lighting, earthing and lightning protection). The CV must have a copy of the Professional Electrical Engineers/Technologist valid ECSA certificate. This certificate will indicate registration with ECSA as a Professional Electrical Engineer/Technologist	Provide 3 Typical Method statements for the works to be designed and executed. As per: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. • Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. • Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		30
	2.2	**Deviations listed under mandatory criteria, specifically related to:** SANS and IEC standards for the electrical scope of the Kusile Power Station Miscellaneous Building Structures (Phase 2), FGD WWTP Solid Waste Holding Facility and Mill Maintenance Projects Technical Specifications. If the Contractor will deviate from any of the electrical requirements, the Contractor to state these deviations accordingly.	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		20

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	2.3	**Construction Experience in Comparable Projects from an electrical perspective:** A description of projects, with similar work that has been successfully completed in the last 10 years, including a list of verifiable references. This is inclusive of the subcontractor's records for works where services of a subcontractor will be utilised	Provide at least three testimonial(s) or Completion Certificate(S) or verifiable reference list as proof for projects undertaken. Testimonial(s) or completion or verifiable reference list certificates shall contain the following information for evaluation purposes: 1) Name of company where project was executed 2) Project Description 3) Construction period 4) Contract value 5) Contact person Summary of the above information in table format As per: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		50

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
3	**LPS Engineering:** Miscellaneous Building Structures modification works, Mill Maintenance & FGD WWTP Solid Waste Holding Facility			**10**	
	3.1	Requirement for inclusion of full Mechanical (Low Pressure Services) scope of works including deviations listed under Mandatory (if applicable):	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		30
	3.2	Mechanical Construction & Commissioning Scope Capacity. Tenderer submits Typical Method Statements which clearly provides details of the construction & commissioning methods to be adopted to execute the Works. Minimum High Level requirements: · Construction approach/Description of the Works · Resource responsibilities · List of plant and equipment used to execute the works Tenderer to submit method statement(s) encompassing the activities listed below as a minimum, providing details as per above minimum high level requirement: · Piping, supports, and other mechanical equipment erection where applicable · Welding · Grouting and concrete works · Hydrostatic testing · Flushing and Cleaning of Piping .Commissioning of LPS systems	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 04. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		70

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
4	**C&I Engineering:** Miscellaneous Building Structures modification works, Mill Maintenance & FGD WWTP Solid Waste Holding Facility			**5**	
	4.1	**Experience in Comparable C&I Projects:** Proposal clearly demonstrates the Tenderer or Sub-Contractor's compliance with the full scope of work detailed in the section 2.7 and 3.4 of the Works Information. The proposal should address the following: - Company history and experience on installing and servicing of fire detection systems. Minimum of 3 projects - Provide a minimum of 3 contactable references in accompanied by signed reference letter for rendering similar service/work.	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		50
	4.2	**Key resources: Experience:** Demonstrate that a Fire Detection installer registered with SAQCC and has a minimum of 3 years' experience in installing and servicing fire detection systems.	Information provided indicates required qualification (SAQCC Certificate)		25
	4.3	**Key resources: Qualifications:** Demonstrate that a Qualified Technician and Commissioning Engineer/Technician is registered with SAQCC and has a minimum of 3 years' experience in Fire detection installation.	Information provided indicates required qualification (SAQCC Certificate)		25

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
5	**System Integration:** Miscellaneous Building Structures modification works, Mill Maintenance & FGD WWTP Solid Waste Holding Facility			**5**	
	5.1	**See Configuration Management Section + Document Management section of Technical Specifications.** Deviations listed under mandatory criteria.	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		25
	5.2	**Refer to Configuration Management Section - Plant Labelling and Coding of Technical Specifications.** Tender /sub-Tenderer to provide Portfolio of evidence reflecting over 2 years of experience of Plant labelling experience i.e Examples of labelling and coding (pictures/drawings can be submitted as evidence)	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		50
	5.3	**Refer to Document Management section of Technical Specifications.** Contractor to provide a typical Handover Plan as required in scope of work.	Technical Specifications' sections: • Kusile Power Station Technical Specification for Miscellaneous Building Structures (366-423660) Rev 05. •Kusile Power Station FGD WWTP Solid Waste Holding Facility Technical Specification (366-		25

	Qualitative Technical Criteria Description		**Reference to Technical Specification / Tender Returnable**	**Criteria Weighting (%)**	**Criteria Sub Weighting (%)**
			420791) Rev 01. •Kusile Power Station Mill Maintenance Technical Specification (366-449731) Rev 04		

3.3.2 TET Member Responsibilities

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7	TET 8	TET 9	TET 10	TET 11	TET 12
1	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 6**	**TET 7**	**TET 8**	**TET 9**	**TET 10**	**TET 11**	**TET 12**
1.	X	X	X	X								
2.					X	X						
3.							X	X				
4.									X	X		
5.											X	X

3.4 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.4.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	Alternative solutions with the same or better performance

Table 5: Unacceptable Technical Risks

Risk	Description
1	Exclusions of scope specified in the employer's requirements
2	Exclusion of Professional Registration Certificates for each aforementioned discipline
3	Exclusion of a project specific schedule and design regime.

3.4.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

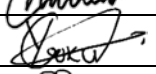
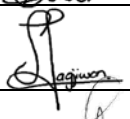
Risk	Description
	N/A

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
	N/A

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signatures
Thabani Mdlalose	LDE: Civil & Structural	
Yuvir Gokul	EDWL	
Shamita Lalla	Technical Lead: System Integration	
Goldstone Khumalo	LDE: Electrical	
Tseliso Msimanga	C&I Engineer	
~~Deshan Naidu~~	~~LPS: Mechanical Engineer~~	
Tiyani Malwandla	LPS: Mechanical Engineer	

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2021	0	C. Langley	Draft document for review
November 2021	1	C Langley	Addressing comments from MDR
April 2023	2	T. Mdlalose	Added scope for the Mill Maintenance & WWTP FGD Waste Salts Holding Facility, thereafter, revised the qualitative technical criteria weightings
June 2023	3	T. Mdlalose	Updated the project schedule high level requirements with input from the project planner
July 2023	4	S. Mabena	Removed planning qualitative criteria

6. DEVELOPMENT TEAM

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

- Thabani Mdlalose
- Sbusiso Mabena
- Zinikele Mbotshelwa
- Nhlanhla Tshabalala

7. ACKNOWLEDGEMENTS

- Nombuso Buthelezi – For contributions from Contracts Management
- Titus Tsiri – For contributions from Quantity Surveying