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Raw Water Reservoir Leakage
Detection Sumps Tender
Technical Evaluation Strategy**

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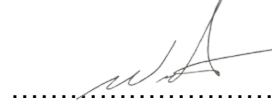
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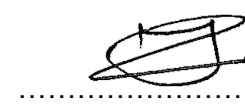
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1. INTRODUCTION

This document sets out the method and criteria that will be used to evaluate the tenders for the Kusile Ash Dump Dirty Dam & Raw Water Reservoir Leakage Detection Sumps project.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the Kusile Ash Dump Dirty Dam & Raw Water Reservoir Leakage Detection Sumps project. The scope of the project is as described in Kusile Ash Dump Dirty Dam & Raw Water Reservoir Leakage Detection Sumps Technical Specification (366-259152).

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 applies to the Tender Evaluation Team for the Kusile Ash Dump Dirty Dam & Raw Water Reservoir Leakage Detection Sumps 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 and Supply Chain Management Procedure, Rev. 4
- [3] 240-53113685: Design Review Procedure

2.2.2 Informative

- [4] 366-259152 - Kusile Ash Dump Dirty Dam & Raw Water Reservoir Leakage Detection Sumps Technical Specification, Rev 0

2.3 DEFINITIONS

Definition	Description
Contractor/Tenderer	Refers to the corporation appointed to perform the engineering, procurement, and construction works required for the project.
Employer	Refers to Eskom Holdings State Owned Company
Eskom Plant	Refers to the Eskom Engineering team who will perform the reviews and provide technical assistance for the work performed by the appointed Contractor.

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Definition	Description
Engineering	
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns
The Client	The end user will be Eskom who will be represented by Kusile Power Station throughout the duration of the Project.

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 and Instrumentation
TES	Tender Evaluation Strategy
TET	Technical Evaluation Team
VDSS	Vendor Document Submittal Schedule
ADDD	Ash Dump Dirty Dam
RWR	Raw Water Reservoir

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

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

N/A.

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

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

The technical criteria and weighting is broken down as follows:

- a) Engineering: 100%

The evaluation of the tender submission is based on the tenderer's ability to meet the Engineering 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:

Table 1: Scoring Method

SCORE	PERCENTAGE	DESCRIPTION
5	100	COMPLIANT <ul style="list-style-type: none">• Meet technical requirement(s) AND;• No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS <ul style="list-style-type: none">• Meet technical requirement(s) with;• Acceptable technical risk(s) AND/OR;• Acceptable exceptions AND/OR;• Acceptable conditions.
2	40	NON-COMPLIANT <ul style="list-style-type: none">• 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

In order to be eligible for evaluation, the contractor shall meet all the mandatory requirements.

The evaluation of tenders will be based on the contractor's ability to meet the requirements specified the 366-259152 - Kusile Ash Dump Dirty Dam & Raw Water Reservoir Leakage Detection Sumps Technical Specification ^[4].

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).

Individual engineering discipline specific criteria weighting is as follows:

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Table 2: Evaluation Scores

Discipline	Weighting (%)
Low Pressure Services	70
Control and Instrumentation	10
Electrical	15
System Integration	5

3.2 TET MEMBERS

Table 3: TET Members

TET number	TET Member Name	Designation
TET 1	Willie van den Heever	Low Pressure Services LDE
TET 2	Chris Odendaal	Low Pressure Services Engineer
TET 3	Preshen Moodley	C&I Engineer
TET 4	Sicelokuhle Miya	Electrical Engineering LDE
TET 5	Sihle Mbatha	Electrical Engineer
TET 6	Shamita Jagjiwan	System Integration
TET 7	Simon Peter	System Integration

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 4: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Tenderer must submit a signed letter stating full compliance to the scope of works without any exclusions (366-259152)	A signed compliance letter.	Demonstrate compliance to the full scope of works.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 5: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	LPS Evaluation Criteria			70	
	1.1	Company's background and experience in construction of mechanical and underground services with mechanical equipment and piping installation construction projects or similar works as detailed in the scope of works.	<p>Specification 366-259152: Section 3.1.1 - 3.1.2.</p> <p>Demonstrate experience on similar projects.</p> <p>Provide Testimonials or Completion Certificates for completed projects consisting of the following information:</p> <ul style="list-style-type: none"> • Name of company where project was executed • Project Description • Construction period • Contract value • Contact person 	60%	Technical
	1.2	Organogram and CV's of key personnel	<p>Provide organogram of key personnel of the main contractor and subcontractors:</p> <p>Organogram should include key personnel as follows(as minimum):</p>	10%	

			<p>Professional Engineer(s) Mechanical,</p> <p>Note: Curriculum Vitae's of all key personnel must be included as part of Organogram tender submission.</p> <p>If a subcontractor is appointed then the tenderer shall demonstrate how tenderer's subcontractor and suppliers shall interface with the tenderer's project team through the organogram</p>		
	1.3	<p>Method Statements & Construction Quality Assurance.</p> <p>The Method Statement is to clearly provide details of the construction method to be adopted. The method statements should correlate with the project schedule.</p>	<p>Technical Specification 366-259152: Section 3 to 7.</p> <p>Provide project construction methodology and typical method statements detailing how the Tenderer proposes to execute the Works including de-commissioning, dismantling, transport, design, manufacture, delivery, erection, inspection, testing, commissioning and handover for each activity, including their typical quality control and Inspection test plans :</p> <ul style="list-style-type: none"> • Project construction methodology • Loading, Transporting and Offloading of material/plant • Piping, supports, pumps and other mechanical equipment erection • Welding (Steel and HDPE) • Excavation/Trenching • Welding 	30%	

			<ul style="list-style-type: none"> •Pre-casting •Grouting and concrete works •Hydrostatic testing (Carbon steel and HDPE) •Flushing and Cleaning of Piping • Asphalt replacement and earthworks (typical method statement and ITP) • Steel piping and HDPE Pipe installation and testing (typical method statement and ITP) •Pump installation and testing (typical method statement and ITP) •Lifting and rigging 		
2.	C&I Evaluation Criteria			10	
	2.1	Field Equipment Requirements	<p>Technical Specification: Sections 3.1.4.8.1 and 3.1.4.7 (Table 7).</p> <p>Tender Returnable: Kusile Leakage Detection Project CI Scorecard.</p>		55
	2.2	Documentation and Drawing Requirements	<p>Technical Specification: Section 3.2.4.1.1.4 (Table 9).</p> <p>Tender Returnable: Kusile Leakage Detection Project CI Scorecard.</p>		45
3.	Electrical Evaluation Criteria		Technical Specification 366-213052: Section 3.1.3 & Table 14	15	

	3.1	Technical Compliance	Signed letter confirming compliance to the Electrical <i>works</i> (i.e. Technical Specification, Section 3.1.3 - Electrical Design and Installation), and stating all deviations if any.		5
	3.2	Technical Schedule A&B	Technical Schedule A&B for all types of power and control cables offered.		5
	3.3	Motor Datasheets	All datasheets for the offered motors		5
4.	System Integration Evaluation Criteria			5	
	4.1	Configuration Management Tender /sub-Tenderer to confirm that Plant labelling will be done as per the relevant standards.	Section 3.2.5		50%
	4.2	<u>Document Management</u> Tenderer/sub-Tenderer provides letter of compliance to Eskom systems and processes i.e. 240-86973501 Engineering Drawing Standard and 240-53114186 Document and Record Management Procedure, as well as compliance to ISO 9001-2015, Quality standard Contractor to provide a letter confirming compliance to the VDSS and the Handover Plan as specified in section 5.3	Section 3.2.4		50%
				TOTAL: 100	

3.5 TET MEMBER RESPONSIBILITIES

Table 6: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7
1	X	X					
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7
1	X	X					
2			X				
3				X	X		
4						X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1.	
2.	
3.	
4.	
5.	
6.	
7.	

Table 8: Unacceptable Technical Risks

Risk	Description
1.	
2.	
3.	
4.	
5.	
6.	
7.	

3.6.2 Exceptions / Conditions

Table 9: Acceptable Technical Exceptions / Conditions


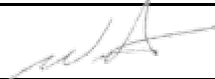




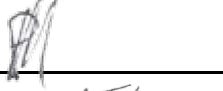

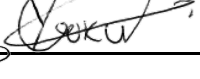

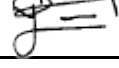

Risk	Description
1.	
1.	
2.	
3.	
4.	
5.	
6.	

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	
2.	
3.	
4.	
5.	
6.	
7.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Tumiso Railo	Project Engineering Manager	
Willie van den Heever	Lead Discipline Engineer: Low Pressure Services	
Chris Odendaal	Engineer: Low Pressure Services	
Ruan Beneke	Engineer: Civil and Structural	
Calvin Langley	Civil and Structural LDE	
Sugan Moodley	Lead Discipline Engineer: C&I Engineering	
Preshen Moodley	Senior Engineer: C&I Engineering	
Sicelokuhle Miya	Lead Discipline Engineer: Electrical Engineering	
Yuvir Gokul	Engineering Design Work Lead	
Shamita Jagjiwan	Lead Design Engineer: System Integration	
Vusi Lubisi	Senior Advisor: System Integration	
Sihle Mbatha	Senior Engineer: Electrical Engineering	

5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2020	0.1	RF Beneke	First draft for review.
February 2021	1.0	RF Beneke	Final document.

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6. DEVELOPMENT TEAM

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

- Ruan Beneke
- Jean van Zyl
- Preshen Moodley
- Sihle Mbatha
- Vusi Lubisi

7. ACKNOWLEDGEMENTS

N/A.

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