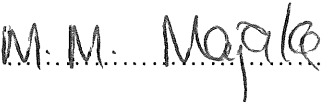




	<b>Strategy</b>	<b>Engineering</b>
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<b>Title:</b>	<b>Tender Technical Evaluation Strategy for operation of the Sewage Treatment Plant at Matla P/S</b>	<b>Unique Identifier:</b>	<b>373-MAT--AABZ31-SG0002-11</b>
		<b>Alternative Reference Number:</b>	<b>N/A</b>
		<b>Area of Applicability:</b>	<b>Engineering</b>
		<b>Documentation Type:</b>	<b>Strategy</b>
		<b>Revision:</b>	<b>1</b>
		<b>Total Pages:</b>	<b>13</b>
		<b>Next Review Date:</b>	<b>N/A</b>
		<b>Disclosure Classification:</b>	<b>CONTROLLED DISCLOSURE</b>

<b>Compiled by</b>	<b>Functional Responsibility</b>	<b>Authorised by</b>
		
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Date: 2024-05-09	Date: 2024-05-09	Date: 14/05/2024

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## **1. INTRODUCTION**

This document is aimed at setting the standard technical evaluation criteria to be used when evaluating the tender submissions for the proposed day to day operation of the sewage treatment plant at Matla. In alignment with Eskom's Zero Liquid Effluent Discharge (ZLED) philosophy, the collection, treatment and recovery / release of domestic wastewater effluent becomes Eskom's responsibility.

As such, each of Eskom's Power Stations is commissioned with a sewage treatment plant, which serves to provide for the collection, treatment, and recycling or disposal of sewage wastes

Sewage treatment refers to the process of removing contaminants from sewage waste. It includes the physical, chemical and biological procedures used to achieve a specified water quality and a solid waste that can be disposed of. The objective of the sewage treatment plant is to produce water that meets the quality of being hygienically safe, inoffensive to the eye and nose, compliant with legislative requirements and not become a pollution or health hazard. The dosing of pre – treatment chemicals is required to ensure that the final effluent water produced meets the quality defined in terms of all microbiological, physical, chemical and aesthetic determinants.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document covers the technical evaluation process and criteria required to be met for the day to day operation of the sewage treatment works at Matla Power Station.

#### **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 is applicable to Matla Power Station

### **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] 32-1034 – Eskom procurement and supply chain management
- [2] 240-48929482: Tender Technical Evaluation Procedure
- [3] 240-53716712: Tender Technical Evaluation Results Form Template
- [4] 240-53716726: Tender Technical Evaluation Scoring Form Template

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## **2.2.2 Informative**

[5] Scope of work for operation of the Sewage Treatment Plant at Matla Power Station – MEP - 0501319

## **2.3 DEFINITIONS**

### **2.3.1 Classification**

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

## **2.4 ABBREVIATIONS**

<b>Abbreviation</b>	<b>Description</b>
OEM	Original Equipment Manufacture
TET	Technical Evaluation team

## **2.5 ROLES AND RESPONSIBILITIES**

Roles and responsibilities are as per 240-48929482: Tender Technical Evaluation Procedure.

## **2.6 PROCESS FOR MONITORING**

N/A

## **2.7 RELATED/SUPPORTING DOCUMENTS**

Refer to Section 2.2

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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%.

#### **3.2 TET MEMBERS**

**Table 1: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1		
TET 2		

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### 3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2 defines all the Mandatory Evaluation Criteria to be used as well as the reference to the specification and motivation for Criteria use. These criteria will not be scored. Each tender will be assessed on a yes/no basis.

**Table 2: Mandatory Technical Evaluation Criteria**

No.	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Assurance that the staffing numbers and qualifications meet the requirements for water and wastewater process operations and control.	<p>SOW MEP – 051319 (2.8)</p> <p>(1) Certified copies of Iris classification certificate for all personnels (the qualification shall be in line with DWS IRIS classification certificate)</p> <ul style="list-style-type: none"> <li>▪ Class 0 Operator</li> <li>▪ Class III Operator</li> <li>▪ Class V Site inspector</li> <li>▪ Class V Supervisor</li> </ul> <p>(2) Submit the Process Controller information(experience) for all above personnels as per DWS IRIS form for Process Controllers as per Appendix C.</p>	Legislative requirements as per the Water Services Act 1997 Regulation 36958 relating to compulsory Nation Standards for Process Controllers and Water Services Works (2013).
2.	All chemical analysis should be performed by an accredited laboratory by using SANS accredited methods of analysis.	<p>SOW MEP – 051319 (2.43)</p> <p>(1) Signed letter on company letterhead highlighting the SANS accredited facility that will perform the chemical analysis <u>as well as</u> the ability to perform SANS accredited analysis on the full set of composite samples required as per SOW MEP – 051319 (2.42).</p> <p>(2) Attach Certified copy of the SANS accreditation certificate of the facility that will perform the chemical analysis.</p>	<p>Requirement as per the Eskom Holdings (Pty) Ltd: Matla Power Station Water Use Licence (2013) 04/B11D/BCFG/2293 Appendix IV</p> <p>Analysis must be carried out in accordance with methods prescribed by and obtainable form the South African National Standards (SANS), in terms of the Standard Act, 1982 (Act 30 of 1982).</p>

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

During the tender evaluations the following table shall be used by the TET members to score each criterion on a scale of 0 to 5 as per Table 3.

**Table 3: Qualitative Technical Evaluation Criteria**

Score	(%)	Definition
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"> <li>Meet technical requirement(s) AND.</li> <li>No foreseen technical risk(s) in meeting technical requirements.</li> </ul>
4	80	<b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b> Meet technical requirement(s) with; <ul style="list-style-type: none"> <li>Acceptable technical risk(s) AND/OR;</li> <li>Acceptable exceptions AND/OR,</li> <li>Acceptable conditions.</li> </ul>
2	40	<b>NON-COMPLIANT</b> <ul style="list-style-type: none"> <li>Does not meet technical requirement(s) AND/OR;</li> <li>Unacceptable technical risk(s) AND/OR;</li> <li>Unacceptable exceptions AND/OR,</li> <li>Unacceptable conditions.</li> </ul>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>
<p><b>Note 1:</b> The scoring table does not allow for scoring of 1 and 3.</p> <p><b>Note 2:</b> Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

Table 4 indicated the qualitative technical evaluation criteria that shall be used by the technical tender evaluation team. Appendix A contains the detailed mandatory and qualitative evaluation criteria scoring sheets.

**Table 4: Qualitative Technical Evaluation Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Sub Weighting (%)
	Technical Requirements			
Evaluation Criteria	1	Historic data of previous operations with sewage plant works with reputable contact details of clients	Signed letter/report on company letterhead stating a summary of previous operations and analysis conducted as well as type of clarifier operated with reputable contacts for each of the works performed	40%
	2	Process monitoring equipment that will be provided for daily process control sample analysis required as per the SOW	Signed letter on company letterhead stating a list of the equipment that will be provided for all the required process control parameters to be analysed daily per shift in order to implement the required process adjustments	20%
	3	Availability of disinfectant chemical (chlorine gas) for proper treatment of the wastewater for discharge purposes.	Signed letter on company letterhead highlighting the agreement between the contractor and the chemical supplier for confirmation of continued supply of the disinfectant chemical as and when required.	25%
	4	Operational plan	Detailed operational plan on a company letterhead as per the requirements.	15%
				TOTAL :100



### 3.5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

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

### 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.6.1 Risks

**Table 6: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	None.

**Table 7: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	None.

#### 3.6.2 Exceptions / Conditions

**Table 8: Acceptable Technical Exceptions / Conditions**

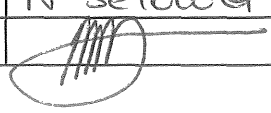
<b>Risk</b>	<b>Description</b>
1.	None

**Table 9: Unacceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1	None

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Maria Majake	Senior Technician Chemistry	M.M. Majake
Nthabiseng Selowa	Chemical Services Manager	N Selowa
Lindokuhle Ngobese	Engineering Manager	

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks

#### 6. DEVELOPMENT TEAM

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

Maria Majake

Natalie Naidoo

Bertie Venter


#### 7. ACKNOWLEDGEMENTS

None.

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## APPENDIX A

 <b>PART A: MANDATORY TECHNICAL REQUIREMENTS</b> <b>MATLA POWER STATION: OPERATION OF THE SEWAGE TREATMENT PLANT</b>			
	Yes	No	Required (Mandatory) - PLEASE ATTACH THE FOLLOWING:
Assurance that the staffing numbers and qualifications meet the requirements for water and wastewater process operations and control.			<b>SOW MEP – 051319 (2.8)</b> (1) Certified copies of IRIS classification certificate for all personnel (the qualification shall be in line with DWS IRIS classification certificate). . Class 0 Operator . Class III Operator . Class V Operator (Site inspestor) . Class V Operator (Supervisor)  (2) Submit the Process Controller information (experience) for all above personnel as per DWS IRIS form for Process Controllers as per Appendix C.
Composite sample done by Accredited Laboratory (for all required analysis).			<b>SOW MEP – 051319 (2.43)</b> (1) Signed letter on company letterhead highlighting the accredited facility that will perform the chemical analysis as well as the ability to perform accredited analysis on the full set of composite samples required as per <b>SOW MEP – 051319 (2.42)</b> .  (2) Certified copy of the accreditation certificate of the facility that will perform the chemical analysis.
<b>NOTE: NON CONFORMANCE TO ANYONE OF THE ABOVE REQUIREMENTS DISQUALIFY THE RESPECTIVE CONTRACTOR. ALL BLOCKS MUST BE TICKED YES IN ORDER TO PROCEED TO PART B. IF PROOF NOT ATTACHED AS REQUIRED ON COLUMN L, THE CONTRACTOR WILL BE SCORED "NO".</b>			

PART B : TECHNICAL EVALUATION CRITERIA : OPERATION OF THE SEWAGE TREATMENT PLANT									
* Total Score Evaluation									
All submitted proposals will be required to meet a total combined score of 70% to be deemed technically suitable									
	Sections	KPI - Criteria Evaluation Indicator	Source	%	0	2	4	5	Score
SECTION 1: TECHNICAL REQUIREMENTS									
Nr	Technical requirements				0%	40%	80%	100%	
1	Historic data of previous operations with sewage plant works with reputable contact details of clients	SOW MEP-051319, Section 2 57	Signed letter/report on company letterhead stating a summary of previous operations and analysis conducted with reputable contacts for each of the works performed	40%	No previous experience mentioned or obtained and/or no references with reputable contact details	1 detailed reference provided meeting all requirements specified as per SOW with reputable contact details OR multiple references provided but not specifying all requirements as per the SOW	2 detailed references provided meeting all requirements specified as per SOW with reputable contact details	3 or more detailed references provided meeting all requirements specified as per SOW with reputable contact details	
2	Process monitoring equipment that will be provided for daily process control sample analysis required as per the SOW	SOW MEP-051319, Section 2 42	Signed letter on company letterhead stating a list of the equipment that will be provided for all the required process control parameters to be analysed daily per shift in order to implement the required process adjustments	20%	<4 list of equipment provided	4 - 5 parameters and sampling point(location) listed are mentioned with detailed equipment to analyse each parameter	5 - 6 parameters and sampling point(location) listed are mentioned with detailed equipments to analyse each parameter	6 or more parameters and sampling point(location) listed together with the detailed list of equipment to analyse each of the mentioned parameters	
3	Availability of disinfectant chemical (Chlorine gas to be provided by contractor) for proper treatment of the wastewater for discharge purposes	SOW MEP-051319, Section 2 12	Signed letter on company letterhead highlighting the agreement between the contractor and the chemical supplier for confirmation of continued supply of the disinfectant chemical on an as and when required basis	25%	No letter provided	Signed letter provided by contractor for assurance that a contract will be drawn up with a chemical supplier for continued supply of the disinfectant chemical	Signed letter provided reflecting proof of a previous contract (contract not more than five years ago) with a chemical supplier for disinfectant chemical	Signed letter provided reflecting a formal agreement between the contractor and the chemical supplier for continuous supply of disinfectant chemical on an as and when required basis	
4	Operational plan	SOW MEP-051319, Section 2 58	Detailed operational plan on a company letterhead as per the requirements	15%	<4 operational plan provided	4 - 5 Operational plan provided as per list on (4 1)	5 - 6 Operational plan provided as per list on (4 1)	6 or more Operational plan provided as per list on (4 1)	
	4 1 Operational plan to include 4 1 1 Details of staff immunisation plan 4 1 2 Record of all employees personal protective equipments (PPE) 4 1 3 Weekly report on plant condition and status to be send to the Eskom representative 4 1 4 Housekeeping of the plant and offices 4 1 5 Employees training plan 4 1 6 Monthly report including accredited laboratory analysis 4 1 7 Emergency plan incase of employees unrest 4 1 8 Operational procedure (e g primary & secondary treatment, disinfection, Final effluent discharge)								
TOTAL SCORE									≥70%