 Eskom	Strategy	Engineering
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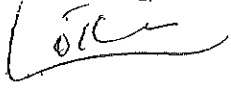

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Compiled by	Functional Responsibility	Authorised by
		
Maria Majake	Stanley Motha	Lindokuhle Ngobese
Senior Technician Chemistry	Chemical Services Manager	Acting Engineering Manager
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1. INTRODUCTION

This document is aimed at setting the standard technical evaluation criteria to be used when evaluating the tender submissions for the supply and delivery of dosing chemicals for the cooling water (CW) system at Matla P/S. The scope entails the requirements and expectations from suppliers for the selection, supply and delivery of pre-treatment chemicals for the main CW system. As raw water is used to supplement the water losses by evaporation from the cooling tower ponds, pre-treatment of the station's cooling water is imperative to remove suspended solids and natural organic matter to protect the condensers downstream of the plant.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the technical evaluation process and criteria for the selection, supply and delivery of pre-treatment chemicals for the main cooling water and distribution system at Matla Power Station.

The technical evaluation will consist of a first and second stage evaluation phase.

- During the first stage evaluation, the jar test results will be evaluated (both from the supplier and Eskom RT&D department) and a minimum of 55% (out of 75%) qualifying score should be obtained for a supplier to proceed to the second evaluation phase.
- During the second evaluation phase, the chosen suppliers will be allowed to conduct plant trials for the proposed chemical systems as per the first stage recommendations. The plant trial results will be evaluated (both from the supplier and Eskom RT&D department), a minimum qualifying score of 15% (out of 25%) should be obtained in order to proceed to the final combined scoring evaluation.
- The final combined score of 70% for the first and second stage evaluation should be obtained in order for the supplier's proposed cooling water pre-treatment chemical system to be deemed technically suitable 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 Technical Evaluation Team (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 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.

List the references under the following paragraphs, without indicating the date.

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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
- [5] 240-150393224 Water Treatment Plant Pre-Treatment Chemicals Scope of Work Guideline

2.2.2 Informative

- [6] MEP – 051315 Scope of Work for supply and delivery of raw water pre-treatment chemicals for Potable production at Matla Power Station on an as and when required basis

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
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 compliant from a technical perspective is 70%

Evaluation of tenders will comprise of two stages in which the first stage identifies suppliers which will be allowed to do plant trials of their proposed chemicals and second stage will be the outcome of the plant trials. Evaluation Stages and weighting should be as per Table 1 below

Table 1 Technical Evaluation Weight allocation

Evaluation Stages	Weighting	Minimum Threshold
Stage 1	75%	55%
Stage 2	25%	15%
Final (Sum of Stages 1 and 2)	100%	70%

3.2 TET MEMBERS

Table 2 TET Members

TET number	TET Member Name	Designation
TET 1	Bertie Venter	Matla PS Chemical Engineering
TET 2	Maria Majake	Matla PS Chemical Services

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 3 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 3 Mandatory Technical Evaluation Criteria

No.	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1	The proposed coagulant and flocculant should be a blended product and should be in the liquid form.	SOW MEP-051316, Section 2.2/Tender returnable should be detailed 16 point Material/Product Data sheets indicating that the chemicals are in liquid state and a blended product.	The plant design/configuration only allows for liquid dosing of chemicals.

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 Error! Reference source not found

Table 4 Qualitative Technical Evaluation Criteria

Score	(%)	Definition
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 Meet technical requirement(s) with, <ul style="list-style-type: none"> 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
Note 1: The scoring table does not allow for scoring of 1 and 3 Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy		

Table 5 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 5 Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	Technical Requirements				
Stage 1 Evaluation Criteria	1	Technical Personnel Qualification - Diploma in Analytical Chemistry or Water Care and work experience in plants of similar design	SOW MEP-051316, Section 2.17/CV of the responsible person with related work experience on pre-treatment plants of similar design & copy of certificate for Diploma in Analytical Chemistry or Water care	75%	20%
	2	Detailed previous jar test reports for previous work in plants of similar design	SOW MEP-051316 Section 2.5/Jar test reports with all 6 points mentioned as per SOW Section 2.16		20%
	3	Detailed MSDS	SOW MEP-051316 Section 2.10 & 2.11/Detailed 16 point Material Data and Specification Sheets for proposed chemicals		10%
	4	Jar test results as per RT&D report	SOW MEP-051316, Section 2.5/Test results as mentioned in Eskom RT&D test report and the supplier's test report		25%
Stage 2 Evaluation Criteria	5	Trial test results as per Eskom RT&D report	SOW MEP-051316, Section 2.6/Trial test results as mentioned in the Eskom RT&D trial report and the supplier's trial report	25%	-
				TOTAL 100	

3.5 TET MEMBER RESPONSIBILITIES

In Table 6 identify the TET members allocated to review/evaluate each Qualitative criterion (minimum 2 evaluators per criteria / sub-criteria)

Table 6 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						
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						
5	X	X						

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1	N/A

Table 8: Unacceptable Technical Risks

Risk	Description
1	N/A

3.6.2 Exceptions / Conditions

Table 9: Acceptable Technical Exceptions / Conditions

Risk	Description
1	N/A

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1	N/A

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
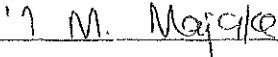
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4. AUTHORISATION

This document has been seen and accepted by

Name	Designation	Signature
Bertie Venter	Matla PS Chemical Engineering	
Maria Majake	Matla PS Chemical Services	

5 REVISIONS

Date	Rev.	Compiler	Remarks
May 2021	0	Bertie Venter	Draft document sent for signatures
May 2021	1	Bertie Venter	Signed document

6. DEVELOPMENT TEAM

Natalie Naidoo

Bertie Venter


7. ACKNOWLEDGEMENTS

None

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APPENDIX A: TECHNICAL EVALUATION CRITERIA

				PART A: MANDATORY TECHNICAL REQUIREMENTS	
MATLA POWER STATION: COOLING WATER PRE-TREATMENT CHEMICALS					
	Yes		No	Required (Mandatory) - PLEASE ATTACH THE FOLLOWING:	
The coagulant and flocculant should be a blended product and should be in the liquid form				Plant configuration	
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".					

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PART B TECHNICAL EVALUATION CRITERIA SUPPLY AND DELIVERY OF COOLING WATER PRE-TREATMENT CHEMICALS									
<p>* First stage Evaluation Tender documents and Jar Test Results Proposals will be required to meet 55% qualifying score in order to be allowed to do Pre-contract trials (2nd stage) on the plant</p> <p>* Second Stage Evaluation Pre contract Trial Proposals will be required to meet 15% qualifying score in order to be considered for total score evaluation</p> <p>* Total Score Evaluation Proposals will be required to meet a total combined score of 70% to be deemed technically suitable</p>									
Sections	KPI Criteria Evaluation Indicator	Source	%	0	2	4	5	Score	
SECTION 1 TECHNICAL REQUIREMENTS									
Nr	Technical requirements			0%	40%	80%	100%		
1	Technical Personnel Qualification Diploma in Analytical Chemistry or Water Care and work experience in plant of similar design	SOW MEP-051316 Section 2.17	20%	CV of the responsible person with related work experience on pre-treatment plants of similar design & copy of certificate for Diploma in Analytical Chemistry or Water Care	< 2 years of work experience and/or the work experience mentioned is not of similar design	≥ 2 but < 4 years with related work experience on pre-treatment plants of similar design	≥ 4 but < 5 years with related work experience on pre-treatment plants of similar design	≥ 5 years with related work experience on pre-treatment plants of similar design	
2	D.L. and previous Jar test reports for pre-treatment plant of similar design	SOW MEP-051316 Section 2.16	20%	Jar test reports with at least one mentioned as per SOW Section 2.16	0 references or references not mentioned but with no additional details	1-3 references and most of the points mentioned in each reference	3-4 references and most of the points mentioned in each reference	5 or more references in report and at least 5 points mentioned in each reference	
3	Detailed MSDS	SOW MEP-051316 Section 2.10 & 2.11	10%	Detailed 15 points Material Safety Data Sheet (MSDS) with a South African contact number for each chemical. The MSDS must state the main active ingredient and the concentration thereof	0 MSDS attached	MSDS attached for both chemicals but not detailed		Detailed MSDS attached for both chemicals	
4	Jar test results as per Eskom RT&D report	SOW MEP-051316 Section 2.5 Eskom Chemistry and Microbiology Standard for Cooling Water 240 55854767 Section 3.5	25%	Test results as mentioned in Eskom RT&D test report and supplier report	Turbidity > 15 NTU	Turbidity > 10 but ≤ 15 NTU	Turbidity > 10 but ≤ 15 NTU	Turbidity B.A. ≤ 5 NTU	
TOTAL SCORE FOR 1ST STAGE EVALUATION								must be 55% to commence 2nd stage	
5	Jar test results as per Eskom RT&D report	SOW MEP-051316 Section 2.6 Eskom Chemistry and Microbiology Standard for Cooling Water 240 55854767 Section 3.5	25%	Jar test results as mentioned in the Eskom RT&D test report and supplier report	Turbidity > 15 NTU	Turbidity > 10 but ≤ 15 NTU	Turbidity > 5 but ≤ 10 NTU	Turbidity B.A. ≤ 5 NTU	
TOTAL SCORE FOR 2ND STAGE EVALUATION								must be 15% to allow for total score evaluation	
TOTAL SCORE FOR STAGE 1 AND STAGE 2 EVALUATION								must be 70% to be deemed technically suitable	