

Title: **Tender Technical
Evaluation Strategy for
Tutuka and Thuthukani
Sewage Treatment Plants
Operation**

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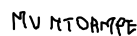
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CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
2.1 SCOPE	3
2.1.1 Scope of Work	Error! Bookmark not defined.
2.1.2 Purpose	3
2.1.3 Applicability	3
2.2 NORMATIVE/INFORMATIVE REFERENCES	3
2.2.1 Normative	3
2.2.2 Informative	4
2.3 DEFINITIONS	4
2.3.1 Classification	4
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	4
2.6 PROCESS FOR MONITORING	4
2.7 RELATED/SUPPORTING DOCUMENTS	4
3. TENDER TECHNICAL EVALUATION STRATEGY	4
3.1 TECHNICAL EVALUATION THRESHOLD	5
3.2 TET MEMBERS	6
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	7
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	8
3.5 TET MEMBER RESPONSIBILITIES	11
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	12
3.6.1 Risks	12
3.6.2 Exceptions / Conditions	12
4. AUTHORISATION	13
5. REVISIONS	13
6. DEVELOPMENT TEAM	13
7. ACKNOWLEDGEMENTS	13

TABLES

Table 1: Qualitative Evaluation Criteria Scoring Table	5
Table 2: TET Members	6
Table 3: Mandatory Technical Evaluation Criteria	7
Table 4: Qualitative Technical Evaluation Criteria	8
Table 5: TET Member Responsibilities	11
Table 6: Acceptable Technical Risks	12
Table 7: Unacceptable Technical Risks	12
Table 8: Acceptable Technical Exceptions / Conditions	12
Table 9: Unacceptable Technical Exceptions / Conditions	12

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1. INTRODUCTION

Activated sludge process is one of the oldest and well- established technologies. This technology has been proven effective for municipal as well as industrial wastewater treatment. In this process, bacterial mass is grown through the degradation of pollutants under aerobic environment. This bioreactor allows simultaneous treatment of organics, nutrients and other micropollutants. Both sewage treatment plant are BNR and utilizes activated sludge process.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope is for the Tutuka and Thuthukani Sewage Treatment Plants Operation

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 to evaluate all tenders received from the Service Provider(s) in response to the Enquiry.

2.1.2. Applicability

This document is applicable to all appointed and involved in the technical tender evaluation of tenders received from the Service Provider(s) in response to conduct Tutuka and Thuthukani Sewage Treatment Plants Operation.

2.1.3. Effective Date

When the document is authorized.

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] 240-53716726 Technical Scoring Form;
- [3] 240-53716712 Technical Evaluation Results;
- [4] 240-48929482: Tender Technical Evaluation Procedure;
- [5] 32-1034 Eskom Procurement Policy;
- [6] Occupational Health and Safety Act No. 85 of 1993
- [7] ISO 9001 Quality Management Systems

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2.2.2 Informative

[1] 240-135715334 Sewage Treatment Plant Operating Guideline

2.3 DEFINITIONS

Definition	Description
Employer	Tutuka Power Station
Principal Contractor	a. As per OHS Act (85/1993)

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
OHS	Occupational Health and Safety
P&ID	Piping and Instrumentation Diagram
PS	Power Station
QCP	Quality Control Plan
Rev	Revision
SANS	South African National Standard

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

As per section 2.2

3. TENDER TECHNICAL EVALUATION STRATEGY

The evaluation criteria will be based upon a two-step process:

Mandatory Criteria Evaluation

All TET members as defined in the Tender Technical Evaluation Strategy (and specifically TET member responsibilities) shall independently evaluate each tender in terms of compliance to the defined Mandatory Evaluation Criteria. Each TET member shall provide an individual scoring form on the compliance / non-compliance of all tenderers' responses to the Mandatory Evaluation Criteria. Each TET member shall provide clear justification(s) for each Mandatory Criteria evaluated as non-compliant ('NO'). All individual

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scoring forms shall be evaluated to check for consistency in scoring of the Mandatory Evaluation Criteria. Should there be inconsistency in the scoring, an internal clarification meeting shall be conducted with all TET members (who performed the evaluation) in the presence of the Commercial Representative. This meeting shall aim to jointly establish which of the tenderers qualify for the next phase of Qualitative Technical Evaluation. In the case where no tenderer meets all Mandatory Evaluation Criteria this shall be formally escalated to the Commercial Representative who shall guide the subsequent process. All meeting minutes shall be recorded and distributed to the Commercial Representative and included in the Tender Technical Evaluation Report.

Qualitative Criteria Evaluation

Tenderers that have met all the Mandatory Evaluation Criteria shall be evaluated against the Qualitative Criteria as defined in the Tender Technical Evaluation Strategy. The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements. A score shall be allocated as per Table 2: Qualitative Evaluation Criteria Scoring Table, for each technical qualitative criterion. Each TET member shall populate a Tender Technical Evaluation Scoring Form [2] for each tenderer. Note: Individual Qualitative Criteria scores shall only be finalised after all clarification sessions have been concluded.

Table 1: Qualitative Evaluation Criteria Scoring Table

Score	%	Definition
5	100	COMPLIANT Meet technical requirement(s) AND. No foreseen technical risk(s) in meeting technical requirements.
4	70	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
<p>Note 1: The scoring table does not allow for scoring of 1 and 3.</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

3.1 TECHNICAL EVALUATION THRESHOLD

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

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3.2 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Nontobeko Nxumalo	Senior Supervisor Chemistry
TET 2	Nthabiseng Ntoampe	Senior Chemist Chemistry
TET 3	Michael Mukwevho	Chemistry Manager

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Contractor must have experience in operation of an activated sludge wastewater treatment plant	Supply reference letter from current/previous clients for the operation of an activated sludge wastewater treatment plant.	To ensure that suppliers are technically viable, reliable, and able to continuously operate the plant and meet the requirements of the station's water use licence. .

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3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Work experience		Technical returnables document	50%	
	1.1	Technical Personnel Qualification- Supervisor (National diploma in Chemistry/ Chemical engineering or Water care with a minimum of 3-years relevant experience, as well as regulation 3630 classification (class V)	Supply Qualifications of Split (x2) Site supervisors, DWS process controller Classification certificate Score distribution no qualification and process controller certificate =0 points 1X qualification and process controller certificate=2 points 2x qualification and process controller classification certificate=5 points		15%
	1.2	Chemical technician with a National diploma in Chemistry/ Chemical engineering or Water care with a minimum of 2-years relevant experience, as well as regulation 3630 classification certificate (Class V)	Proof of qualification, CV and Regulation 3630 classification as stipulated on the NEC. Score distribution no qualification, CV and regulation 3630 classification certificate =0 points		15%

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			qualification, CV and regulation 3630 classification certificate submitted =5 points		
	1.3	Related Work References	Provide proof of 3 recently conducted plant optimisation reports on the Wastewater treatment plant not older than 2 years. Score distribution 0 report=0 points 1 report= 2 points 2 reports= 4 points 3 reports= 5 points		20%
2.	General		Technical returnables document	50%	
	2.1	Provision of plant monitoring equipment's as stated on the NEC. (DO ₂ , Cl ₂ , pH and conductivity meter) for each plant	Provide proof that the supplier will be able to provide the following instruments: DO ₂ , Cl ₂ , pH and conductivity meters) for plant monitoring. Score distribution No proof submitted= 0 point Proof submitted= 5 points		5%

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	2.2	Secure transport for the Employees. Provide Eskom of proof.	Provide proof that secure transport will be provided to the employees. Score distribution No proof submitted = 0 point Proof submitted = 5 points		10%
	2.3	Previous experience in Operation of an Activated Sludge Treatment Plant	Reference from previous/current customers Score distribution 0 reference= 0 point 2 references = 2 points 3 or more references= 5 points		20%
	2.4	A Certificate that prove/indicate that Laboratory the contractor has employed is accredited by the South Africa National System (SANAS) according to the requirements of ISO 17025 for chemical and microbiological analysis as per Tutuka water use licence	Provide SANAS accreditation certificate for the laboratory that will be employed for chemical and microbiological analysis for the two wastewater plants Score distribution No submission= 0 point Submission of accreditation certificate = 5 points		15%
				TOTAL: 100	

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3.5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
1.1	X	X	X
1.2	X	X	X
1.3	X	X	X
2.1	X	X	X
2.2	X	X	X
2.3	X	X	X
2.4	X	X	X

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3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	None

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Contactors must have experience in operation of an activated sludge wastewater treatment plant

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Inability to execute the required works as per scope of work issued [1].

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Nontobeko Nxumalo	Senior Supervisor Chemistry
Nthabiseng Ntoampe	Senior Chemist Chemistry
Michael Mukwevho	Chemistry Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
April 2022	1	Nthabiseng Ntoampe	New Document
November 2023	2	Nontobeko Nxumalo	Reviewed technical acceptance criteria

6. DEVELOPMENT TEAM

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

N/A

7. ACKNOWLEDGEMENTS

N/A

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