

Title: **Tender Technical Evaluation
Strategy for Camden Power
Station Cooling Tower 4 Year
Maintenance Contract**

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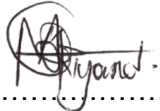
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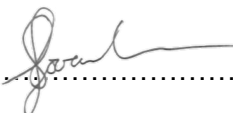
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1. INTRODUCTION

Camden Power Station started operating in 1967 and comprised six natural draught, asbestos cement packed, hyperbolic type Cooling Towers. The Cooling Towers were originally constructed and packed by Hamon Group. The cooling tower internals, includes the fill material, distribution pipework and drift eliminators which has been replaced with PVC material.

Upon Camden RTS, some minor refurbishment was carried out on the Cooling Towers by IWC Pty Ltd which included replacement of drift eliminator structure with HDPE, repair and replacement of broken distribution pipes with PVC, replacement of sprayers and repairs.

1.1 SCOPE

The scope covers the technical specification and tender returnables.

1.1.1 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. This document will also provide the technical evaluation weighting, acceptable and unacceptable risks.

1.1.2 Applicability

This document only applies to Camden Power Station.

1.2 NORMATIVE/INFORMATIVE REFERENCES

1.2.1 Normative

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] 32-1034 Eskom Procurement and Supply Chain Management Procedure

1.2.2 Informative

- [3] 559-38530401 - Scope of Work for maintenance of Camden cooling towers for 4 years

1.3 DEFINITIONS

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

1.4 ABBREVIATIONS

Table 1. Abbreviation table

Abbreviation	Description
TET	Technical Evaluation Team
SOW	Scope of Work

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1.5 ROLES AND RESPONSIBILITIES

As per 32-1034 Eskom Procurement and Supply Chain Management Procedure

1.6 PROCESS FOR MONITORING

N/A

1.7 RELATED/SUPPORTING DOCUMENTS

559-38530401 – Scope of Work for maintenance of Camden cooling towers for 4 years

2. TENDER TECHNICAL EVALAUTION STRATEGY

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications or ability to perform the work. Tenderers need to obtain a minimum weighted score of 70% overall to technically qualify for further evaluation.

2.1 TECHNICAL EVALUATION TEAM

Table 2: TET members

TET number	Evaluators name	Designation
TET 1	Mxolisi Nyandeni	Cooling Water System Engineer
TET 2	Stefan Erasmus	Chief Technologist GX Engineering Feed heating and Condensate
TET 3	Sabelo Mthethwa	Cooling Water System Engineer
TET 4	Giel Kruger	Snr Technician: Common Plant Maintenance

2.2 RESPONSIBILITIES

Table 3. Responsibilities of TET members

Mandatory criteria number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	X	X	X	X
Qualitative criteria number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X
4	X	X	X	X

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2.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Gatekeepers identified in the tender document will be “must meet” criteria identified in tabular questionnaire form. The tenderer’s submission will be assessed based upon questionnaire seeking **YES** or **NO** response from the tenderers with no point scores or weighted averaged assigned to the response.

Response of **NO** against any criteria will be elimination of the tenderer’s submission for further consideration or short listing for detailed technical evaluation. Gatekeepers will be minimum criterion elements with most significant and critical parameters applicable to the successful execution of the SOW.

Table 4. Mandatory technical evaluation

	Mandatory Technical Criteria Description	Motivation for use of Criteria
1.	Contractor must supply a valid certificate stating that the company is certified to handle and dispose asbestos products to a recognized hazardous waste disposal site(s).	OHSA requires that with removal of asbestos the contractor shall have a certified waste disposal certificate/certification.
2.	The Contractor shall submit a verifiable reference list demonstrating successful execution of Cooling Tower maintenance work, including high-pressure water cleaning (minimum 200 bar), completed within the last five (5) years. The experience may have been gained under a single contract, a single purchase order, or multiple contracts and/or purchase orders, provided that the work corresponds with the SOW. The reference details shall be provided in the format shown in Tables 5, 6 & 7. The submitted references shall be verifiable through the contact details provided The following shall NOT be accepted as valid references: 1. Maintenance work done was not on cooling towers or does not correspond with the SOW. 2. Reference could not be verified with the contact details that were supplied. 3. Work was performed earlier than 2021. 4. High pressure water cleaning with water pressures less than 200 bar. 5. Tables 5, 6 & 7 not fully completed.	The maintenance of Natural Draft Cooling Towers involves complex mechanical, structural, and corrosion protection activities that require specialized technical expertise, extensive on-site experience and strict adherence to safety and quality standards.

Table 5: Mandatory Evaluation Criteria Submission Table

Cooling Tower Maintenance Reference 1		
No	Description	Contractor to Complete all the rows below
1	Project Description: Brief description of the maintenance activities performed on a natural draft cooling tower during the specific project.	
2	Physical location of the natural draft cooling tower on which maintenance activities was carried out.	
3	Date when the maintenance activities were done	
4	Water pressure that was used for cleaning of cooling tower distribution pipes (bar)	
5	Company name of the client	
6	Client engineer or client quality control representative details	Name and Surname: Contact Number: Company Email Address:

Table 6: Mandatory Evaluation Criteria Submission Table

Cooling Tower Maintenance Reference 2		
No	Description	Contractor to Complete all the rows below
1	Project Description: Brief description of the maintenance activities performed on a natural draft cooling tower during the specific project.	
2	Physical location of the natural draft cooling tower on which maintenance activities was carried out.	
3	Date when the maintenance activities were done	

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4	Water pressure that was used for cleaning of cooling tower distribution pipes (bar)	
5	Company name of the client	
6	Client engineer or client quality control representative details	Name and Surname: Contact Number: Company Email Address:

Table 7: Mandatory Evaluation Criteria Submission Table

Cooling Tower Maintenance Reference 3		
No	Description	Contractor to Complete all the rows below
1	Project Description: Brief description of the maintenance activities performed on a natural draft cooling tower during the specific project.	
2	Physical location of the natural draft cooling tower on which maintenance activities was carried out.	
3	Date when the maintenance activities were done	
4	Water pressure that was used for cleaning of cooling tower distribution pipes (bar)	
5	Company name of the client	
6	Client engineer or client quality control representative details	Name and Surname: Contact Number: Company Email Address:

2.4 QUALITATIVE EVALUATION CRITERIA

Table 8. Qualitative technical evaluation criteria

Qualitative technical evaluation criteria	Criteria Weighting										
1. Drift Eliminator Installation	20%										
The Contractor must provide a detailed method statement for the engineering design, supply, support, and installation of drift eliminators for off-line maintenance conditions. This method statement must include, at a minimum: • Structural design approach for drift eliminators, including support and bracing systems • Material specifications and flexibility/rigidity considerations • Fixing and mounting methodology/philosophy. • Handling and installation procedures during shutdown (off-line) maintenance. • Risk identification and mitigation related to structural integrity and operational performance • The Method statement must be on the Contractor's company letter head The scoring system that will be used is as follows: <table border="1" data-bbox="266 826 869 1129"> <thead> <tr> <th>Engineering Work Covered</th><th>Scores</th></tr> </thead> <tbody> <tr> <td>Less than 70% of Engineering work covered</td><td>0</td></tr> <tr> <td>Less than 80 % of Engineering work covered</td><td>2</td></tr> <tr> <td>Less than 90% of Engineering work covered</td><td>4</td></tr> <tr> <td>More than 90% of Engineering work covered</td><td>5</td></tr> </tbody> </table>	Engineering Work Covered	Scores	Less than 70% of Engineering work covered	0	Less than 80 % of Engineering work covered	2	Less than 90% of Engineering work covered	4	More than 90% of Engineering work covered	5	Client requires proof of competency of contractor for drift eliminator installations.
Engineering Work Covered	Scores										
Less than 70% of Engineering work covered	0										
Less than 80 % of Engineering work covered	2										
Less than 90% of Engineering work covered	4										
More than 90% of Engineering work covered	5										
2. Technical Personnel	20%										
Supervisor's relevant experience in natural draft cooling tower maintenance related activities. Contractor to provide the following information • Number of Years the supervisor has been supervising Cooling tower related maintenance activities. • Brief description of the maintenance activities which this supervisor overseen. • Physical location of the natural draft cooling tower on which this supervisor overseen maintenance activities carried out											

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The scoring system will be as follows:												
<table><tr><th>Years of Experience</th><th>Scores</th></tr><tr><td>Less than 1 year</td><td>0</td></tr><tr><td>Less than 3 years; more than 1 year</td><td>2</td></tr><tr><td>Less than 5 years; more than 3 years</td><td>4</td></tr><tr><td>More than 5 years</td><td>5</td></tr></table>	Years of Experience	Scores	Less than 1 year	0	Less than 3 years; more than 1 year	2	Less than 5 years; more than 3 years	4	More than 5 years	5		
Years of Experience	Scores											
Less than 1 year	0											
Less than 3 years; more than 1 year	2											
Less than 5 years; more than 3 years	4											
More than 5 years	5											
3. Quality Control Plan		20%										
The Contractor must submit a previously completed Quality Control Plan (QCP), completed within the last five (5) years, as evidence of successfully executing similar work. The QCP must be fully signed off by the Client Representative and shall cover the installation, cleaning and/or replacement of Drift Eliminators; cleaning and repair of Fill; repair of staircases and walkways; and the installation, maintenance and/or cleaning of Distribution Pipes, Sprayers and End Caps. The scoring system will be as follows: <table><tr><th>QCP contents</th><th>Scores</th></tr><tr><td>No QCP</td><td>0</td></tr><tr><td>QCP not fully signed</td><td>2</td></tr><tr><td>Fully signed but not including all the work stated above</td><td>4</td></tr><tr><td>Fully signed off in company tendering name by client and client representatives.</td><td>5</td></tr></table>		QCP contents	Scores	No QCP	0	QCP not fully signed	2	Fully signed but not including all the work stated above	4	Fully signed off in company tendering name by client and client representatives.	5	
QCP contents	Scores											
No QCP	0											
QCP not fully signed	2											
Fully signed but not including all the work stated above	4											
Fully signed off in company tendering name by client and client representatives.	5											
4. Cooling tower HP Pump requirement		20%										
The Contractor shall provide the technical details of HP Pumps that will be on site during the cooling tower maintenance contract, the technical details of the pumps to be completed by populating table below. For this contract at least 2 HP Pumps are required from the Contractor during the period of each Cooling Tower maintenance. Each pump to produce pressure and flowrate of 400 bar and 45 l/min respectively.												

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Below HP pump table to be populated:

HP Pump Number	Pump make and model	Pressure rating or range(bar)	Flow range(L/min)
1			
2			
3			
4			

The scoring system will be as follows:

Number of Pumps available with appropriate flow range	Scores
Not responsive	0
Pumps provided which do not meet the pressure nor flow rate requirements	2
2 pumps that does not meet the required flow rate at 400 bar	4
2 pumps that meet the technical performance criteria	5

5. Exclusions/deviations/qualifications to technical specifications

20%

The Contractor must clearly identify and state any exclusions, deviations, or qualifications to the technical specifications outlined in the tender documents. If there are no exclusions, a clear statement to this effect must be provided in the tender.

The following information can be considered:

- List of exclusions – any items, materials, or services that are not included in the scope of work but may reasonably be expected to be part of the Project
- List of deviations – detail any proposed deviations from the technical specifications provided in the tender. Each deviation must include a clear justification
- Qualifications – any conditions or qualifications made in preparing the tender that may affect pricing, schedule or scope

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The scoring system will be as follows:		
Exclusions/deviations	Scores	
Exclusions with more than 2 acceptable technical risks	0	
Exclusions with non-acceptable technical risks	2	
Exclusions with acceptable technical risks	4	
No exclusions	5	
Total		100%

2.5 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

2.5.1 Risks

This section details the acceptable and unacceptable risks. **MR_CAM_002** Rev 2 Scope of Work is to be reference when cross referencing with sections as mentioned on table 3 and 4 of MR_CAM_002 Rev 2 Scope of Work

Table 10: Acceptable Technical Risks

Risk	Description
1.	Limited experience with HP cleaning of pressure of 400 bar.
2.	Main contractor subcontracts the repairs of walkways and staircases of work to a certified contractor, with a letter of agreement between the main contractor and the sub-contractor provided to the client.

Table 11: Unacceptable Technical Risks

Risk	Description
1.	No asbestos certification/expired asbestos certification.
2.	Method statement not addressing requirements as per scope of work section 4 and 5.
3.	Off-line maintenance will take more than 30 days to complete.
4.	Contractor subcontracts the repairs of walkways and staircases without letter of agreement with subcontractor of choice.
5.	Contractor does not have proven track record of an off-line natural draft cooling tower maintenance.
6.	No experience with HP cleaning.
7.	Maintenance schedules omit small portions of the scope of work

3. REVISIONS

Date	Rev.	Compiler	Remarks
09 July 2025	0	Mthu Ramothibe	Original issue
29 October 2025	1	Mxolisi Nyandeni	Added Qualitative Criteria and scoring system for each criterion, tender returnable and aligned document with Scope of Work
05 December 2025	2	Mxolisi Nyandeni	Aligned SOW to TES
29 July 2026	3	Mxolisi Nyandeni	Revised Mandatory Criterion 2 and Qualitative Criterion 3

4. DEVELOPMENT TEAM

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

- Mthu Ramothibe
- Sabelo Mthethwa

5. ACKNOWLEDGEMENTS

- Stefan Erasmus
- Francois Du Preez
- Senamile Nzama

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