

	<b>Strategy</b>	<b>Engineering</b>
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for Fuel Oil Plant and Oil Burners  
Maintenance Contract**

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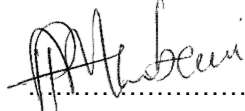
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### **CONTROLLED DISCLOSURE**

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## **1. INTRODUCTION**

A technical works scope for Camden Power Station has been developed by engineering to provide a technical scope of work for the establishment of Fuel Oil plant and Burner's maintenance contract for a period of 48 months. This tender technical evaluation strategy document is for the procurement process for the Fuel Oil plant and Burner's maintenance contract. The method and criteria to be used by the technical evaluation team (TET) for the evaluation of the tenders/proposals received will be set in this document.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

- ❖ Mechanical maintenance, Plant inspections and defects correction of the Fuel Oil plant and Burners - A detailed scope has been drafted for the maintenance contract.
- ❖ This includes stripping of pumps and valves and writing repair recommendations.

#### **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 the basis for the tender technical evaluation process.

#### **2.1.2 Applicability**

This document shall apply to Camden 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**

Parties using this document shall use the most recent editions of the documents listed in this section.

- [1] Occupational Health and Safety Act 85 of 1993 (OHS-Act).
- [2] Pressure Equipment Regulations (PER).
- [3] ISO 9001: Quality Management Systems.

#### **ESKOM STANDARDS**

- [4] QM 58: Supplier Contract Quality Requirements Specification.
- [5] 240-168966153: Generation Tender Technical Evaluation Procedure.

#### **2.2.2 Informative**

- [6] 240-83539994: Standard for Non-Destructive Testing (NDT) on Eskom Plant.

### **2.3 DEFINITIONS**

Definition	Description
Maintenance	Performance monitoring, Repair, and replacement of components to ensure the reliable operation of the plant and conformance to statutory requirements. This includes engineering advice and recommendations on performance improvements.

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### 2.3.1 Classification

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

### 2.4 ABBREVIATIONS

Abbreviation	Description

### 2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation

OR

240-48929482: Tender Technical Evaluation Procedure for Transmission and Distribution

### 2.6 PROCESS FOR MONITORING

N/A

### 2.7 RELATED/SUPPORTING DOCUMENTS

Refer to paragraph 2.2 above.


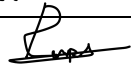
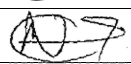
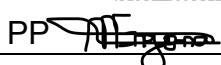
## 3. TENDER TECHNICAL EVALUATION STRATEGY

### 3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

### 3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Velaphi Vilakazi	Boiler Senior Engineer 
TET 2	Raymond Rampedi	System Engineer 
TET 3	Nkosinathi Khumalo	Maintenance supervisor 
TET 4	Selelepoo Ntoampe	Senior Advisor PP 

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### 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

**Table 2: Mandatory Technical Evaluation Criteria**

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	The contractor must own a Fuel Oil burner test rig.	<p>Submit proof of ownership of the oil burner test rig - The proof of ownership must indicate the tenderer's name, test rig specification and serial number.</p> <ul style="list-style-type: none"> <li>- A calibration certificate for the test rig clearly showing the date of calibration and the name of the company that owns the test rig.</li> </ul> <p>OR</p> <p>Submit a lease agreement signed by both parties with lessor's proof of ownership and technical details of the item (oil burner test rig) being leased.</p> <ul style="list-style-type: none"> <li>- The proof of ownership must indicate the lessor's name, test rig specification and serial number.</li> <li>- A calibration certificate for the test rig clearly showing the date of calibration and the name of the company that owns the test rig.</li> </ul> <p>NB: A Site visit will be done where the bidder will need to demonstrate how an oil burner is tested.</p>	This will ensure that the contractor can fully service and refurbish the burners.
2.	The tenderer must have experience in the maintenance of Fuel oil burners at a fossil fuel fired boilers producing >60MW (in line with the scope above) for a minimum combined period of greater or equals to 36 months.	Submit proof of experience with fuel oil burners, including a contract document that details the contractor's scope of work and the duration of experience.	This will ensure that the contractor can perform the required maintenance.
3.	Proof that the contractor has access to relevant oil burner training for all employees.	Submit scope of work of the training and list of employees trained that prove that the bidder has access to oil burner training for its employees.	To ensure that employees are trained to work on oil burners.

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	<b>Company Experience</b>		The contractor must have Fuel Oil Plant and Burner (gas/fuel oil/ diesel burners) Maintenance experience	25	
	1.1	The contractor must have more than 3 years of experience in maintaining the fuel oil plant (Valves, Pumps, Tanks and pipes)	- Submit proof of experience with fuel oil burners, including a contract that details the contractor's scope of work and the duration of experience.		50
	1.2	Fully signed QCP for cleaning inline heater (fuel oil heaters)	Submit a fully signed QCP that was done previously for cleaning fuel oil inline heaters.		50
2.	<b>Non-Compliance Record</b>		<b>The Tenderer</b> is required to submit <b>their evidence of returnables listed below</b> . Non submission will result in 0%. Failure to meet kick in criteria will also result in 0%:	10	
	2.1	Number of NCR	<p>The tenderer shall submit a list in table format of all NCR's received in Eskom Coal Generation fleet in the last 5 years (not further than 2020) (all BU's where the tenderer has done business, namely Arnot, Camden, Duvha, Grootvlei, Hendrina, Kendal, Kriel, Kriel, Lethabo, Majuba, Matimba, Matla, Medupi, Tutuka).</p> <p>1 Table format for submission to have the following columns:</p> <ul style="list-style-type: none"> <li>Count/ index</li> <li>Date issued</li> <li>NCR No.</li> <li>BU issued</li> <li>Reason for non-compliance</li> </ul> <p>2 The tenderer shall not have more than <b>2 repeated NCR's</b> incidents in the last <b>5 years</b> across <b>all Gx BUs</b> listed above.</p> <p>3 This list shall be confirmed, and the tenderer shall not be found to have omitted <b>2 or more</b> NCRs from the list required in [1].</p> <p>Failure to meet <b>any</b> of the 3 conditions above will result in a 0% score.</p>		100

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<b>3.</b>	<b>Project management</b>		<b>The Tenderer</b> is required to submit <b>their evidence of returnable listed below</b> . Non submission will result in 0%. Failure to meet kick in criteria will also result in 0%:	<b>20</b>	
	3.1	Programme to execute a certain activity on the scope.	Submit a signed <b>Integrated level 2</b> programme for previous contracts ( <b>outages</b> ).		30
	3.2	Site organogram (can be for previous project/contract)	Provide <b>site organograms</b> from previous projects of similar scope, demonstrating the staff competency levels, the number of staff members, and their experience with Fuel oil burners and fuel oil plant maintenance. - The organogram must show Name, position and years of experience for each member		30
	3.3	The contractor must provide proof of fuel oil plant and burner improvements on Eskom Generation Plants or other fossil fuel Boilers/Incinerators	Submit proof from maintenance contracts/maintenance orders (emails, reports, appraisals, evaluations) of fuel oil plant and burner improvements. - Letter of recommendation clearly stating what the contractor did is acceptable.		40
<b>4.</b>	<b>Human Resources</b>		<b>The Tenderer</b> is required to submit <b>their evidence of returnables listed below</b> . Non submission will result in 0%. Failure to meet kick in criteria will also result in 0%:	<b>20</b>	
	4.1	<b>Site Manager x1</b>	To be in possession of: <ul style="list-style-type: none"> <li>Minimum National Diploma (Engineering) <b>OR</b> Grade 12 with project management certification (NQF 6) <b>OR</b> SAQA accredited equivalent of with proof of exact equivalency from SAQA.</li> <li>3 years managing a contract for fuel oil burners maintenance.</li> </ul>		20
	4.2	<b>Supervisor x 2</b>	To be in possession of: <ul style="list-style-type: none"> <li>Minimum National Diploma (Engineering) or N5 in engineering With a Trade Test OR SAQA accredited equivalent with proof of exact equivalency from SAQA</li> <li>3 Years Experience working on the fuel oil burner maintenance</li> <li>Be PSR authorised.</li> </ul>		20
	4.3	<b>Quality controllers x2</b>	<ul style="list-style-type: none"> <li>Minimum Qualification: Mechanical trade test <b>AND</b> <i>Quality inspector certificate</i></li> <li>Minimum 3 years' experience on fuel oil burners maintenance.</li> </ul>		20
	4.4	<b>C&amp;I Technicians x4 required (x2</b>	<ul style="list-style-type: none"> <li>Submit detailed CVs with certified copies of N5 in electrical engineering or electronics engineering with a Trade test (Electrical//electronic).</li> </ul>		20

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		<b>CV's/Submissions to be evaluated)</b>	<ul style="list-style-type: none"> <li>Minimum 3 years' experience on fuel oil burners (SUBMIT ONLY 2 CV's)</li> </ul>		
	4.5	<b>Mechanical Fitters x5 required (x2 CV's/Submissions to be evaluated)</b>	<ul style="list-style-type: none"> <li>Submit detailed CVs with certified copies of N3 mechanical engineering or with a mechanical fitter Trade test.</li> <li>Minimum 2 years' experience on fuel oil burners (SUBMIT ONLY 2 CV's)</li> </ul>		20
<b>5</b>	<b>Procedures</b>		<b>The contractor should submit Procedures/Inspection and Test Plans (ITPs) with relation to previous maintenance on the following:</b>	<b>25</b>	
	1.1	<b>Dry-run procedure</b>	<p>Submit a dry-run procedure that clearly shows how an oil burner is tested before it is cleared to be used.</p> <ul style="list-style-type: none"> <li>NB: Submit both procedure (signed) and ITP.</li> </ul>		20
	1.2	<b>Oil burner commissioning procedure</b>	<p>Submit a commissioning procedure that clearly shows how an oil burner is commissioned before it is cleared to be used after an outage.</p> <ul style="list-style-type: none"> <li>NB: Submit both procedure (signed) and ITP.</li> </ul>		20
	1.3	<b>Maintenance procedure for positive displacement pump (with stator)</b>	<p>Submit a procedure used by the tenderer to replace a stator on a progressing cavity pump.</p> <ul style="list-style-type: none"> <li>NB: Submit both procedure and ITP.</li> </ul>		20
	1.4	<b>Three-screw pump relief pressure setting</b>	<p>Submit a procedure to set the relief pressure on a Leistritz L3NG 3-screw pump.</p>		20
	1.5	<b>Ignitor dry-run commissioning</b>	<p>Submit a commissioning procedure that clearly shows how an ignitor is commissioned before it is cleared to be used after an outage.</p> <ul style="list-style-type: none"> <li>NB: Submit both procedure (signed) and ITP.</li> </ul>		20



### 3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory 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
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
5	X	X	X	X

### **3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS**

#### **3.6.1 Risks**

**Table 5: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	
2.	

**Table 6: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	

#### **3.6.2 Exceptions / Conditions**

**Table 7: Acceptable Technical Exceptions / Conditions**




<b>Risk</b>	<b>Description</b>
1.	

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

<b>Risk</b>	<b>Description</b>
1.	

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Ivan Hartman	Chief Technologist Engineering	
Nkosinathi Khumalo	Maintenance supervisor	
Raymond Rampedi	System engineer	

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
10 Mar 25	1	Velaphi Vilakazi	Original Document
26 Aug. 25	2	Velaphi Vilakazi	Revised experience on mandatory.

#### 6. DEVELOPMENT TEAM

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

Raymond Rampedi

Ivan Hartman

Velaphi Vilakazi

#### 7. ACKNOWLEDGEMENTS

None

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