

**Title: Tender Technical Evaluation Strategy - Gourikwa Major Inspection Services and spares**

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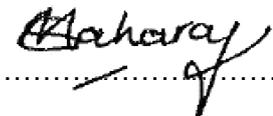
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Date: 2023-10-17.....

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### CONTROLLED DISCLOSURE

## 1. INTRODUCTION

The Open Cycle Gas Turbines at Gourikwa Power Stations must have a Major Service after a certain number of starts and operating hours. There will be an open tender to perform Major Services. This document lays out the strategy for performing the technical evaluation of the received tenders.

## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

This document applies to the second Major Services at Gourikwa Power Stations.

#### 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 applies to Major Inspection Services at Gourikwa Power Stations.

### 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

#### 2.2.2 Informative

### 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
C&I	Control and Instrumentation
GOP	Gourikwa Power Stations
NDE	Non-destructive Examination
OCGT	Open Cycle Gas Turbine
SEM	System Engineering Manager

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Abbreviation	Description
TET	Technical Evaluation Team

## 2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482: Tender Technical Evaluation Procedure

## 2.6 PROCESS FOR MONITORING

N/A

## 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%. The appropriate criteria will be used to evaluate the different tenders for supply of spares and the supply of field services. In cases where criteria is not applicable, the weighting of that criterion will be distributed to the other criteria.

### 3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Tinus Keyser	Chief Engineer
TET 2	Leonard Calana	Senior Advisor Turbines
TET 3	Riaan de Goede	Senior Advisor
TET 4	Jean Fourie	System Engineer C&I
TET 5	Roxsanne Baloka	Senior Engineer Generator

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### 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

**Table 2: Mandatory Technical Evaluation Criteria**

	<b>Mandatory Technical Criteria Description</b>	<b>Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.	Field Service Engineering Capability	Provide evidence of more than 4 complete Field Service Reports for previous Major Inspections on V94.2 Units	To ensure that only companies with the requisite experience perform work on critical components.
2.	Capital Spares Supply	Supplier has version 6 V94.2 gas turbine spares (or proven equivalent) available for delivery to site with lead times of less than 12 months.	To ensure that Eskom can extract the maximum lifetime out of expensive capital spares.

**3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA**

**Table 3: Qualitative Technical Evaluation Criteria**

	<b>Qualitative Technical Criteria Description</b>		<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>	<b>Criteria Sub Weighting (%)</b>
1.	Provision of Engineering Services to Perform Major Inspections		As illustrated on Works Information: Electrical and mechanical engineering works	<b>30</b>	
	1.1	Provide evidence of more than 4 complete Field Service Reports for previous Major Inspections on V94.2 Units – including a rotor pull	Provide 4 Field service reports from previous clients for which similar work was done that highlights the suppliers Major Inspection performance in terms Cost, Time and Quality		30
	1.2	Generator Rotor pull	Provide 3 Field service reports from previous clients for which similar work was done.		10
	1.3	Demonstrate having at least 4 full time Field Service Engineers with V94.2 Unit Major Inspection experience including generator experience	Supplier must demonstrate having at least 4 full time Support Service Engineers with V94.2 Unit Major Inspection experience to be used on the Eskom OCGTs Major Services. Provide 4 x Curriculum Vitaes		25
	1.4	Provision of Standards and Procedures	Level of clarity in terms of how the maintenance standards and procedures of V94.2/ SGT5-2000E (V6) will be provided to end-user.		10

	<b>Qualitative Technical Criteria Description</b>		<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>	<b>Criteria Sub Weighting (%)</b>
	1.5	Ability to provide warranties and guarantees. Letter stating the Warranty and Guarantee conditions for the workmanship performed	Provide guarantees on workmanship performed for a period of at least 12 months  12 Months = 50%  3 Years = 75%  6 Years = 100%		15
	1.6	Ability to minimize outage duration within reasonable time	Project Plan of previously executed Major Inspection		10
2.	Availability of Intellectual Property <b>————</b>		Proof of previously executed Major Inspection	<b>15</b>	
	2.1	Provide evidence of intellectual property ownership, specifically component drawings	Proof of previously executed Major Inspection		30
	2.2	Provide evidence of intellectual property ownership, specifically overhaul method statements including rotor pull methodology	Proof of previously executed Major Inspection		30
	2.3	Provide evidence of intellectual property ownership, specifically overhaul inspection check sheets	Proof of previously executed Major Inspection		40
3.	Availability of Training Capability		Works Information: Training workshops and technology transfer.	<b>15</b>	
	3.1	Demonstrate having at least 1 full time technical trainer with accredited qualifications and experience of SGT5-2000-E gas turbines.	Provide 3 letters of Commendation from previous clients for which training service was provided including course titles. Letters of Commendation.		50

	<b>Qualitative Technical Criteria Description</b>		<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>	<b>Criteria Sub Weighting (%)</b>
	3.2	Provide a list of technical courses and evidence of course material.	Ability to provide verified letters of commendation from previous and existing customers/ End Users regarding provided training services, including course titles and contents		50
4	Capital Spares Supply Note: ESKOM reserves the right to physically inspect repair facilities of shortlisted tenderers.		Works Information: Capital Spares section.	<b>20</b>	
	4.1	Supplier has version 6 V94.2 gas turbine spares (or proven equivalent) available for delivery to site with lead times of less than 12 months.	Provide guarantees on spares availability for a period of at least 6 months.  12 Months = 100% 18 Months = 75% 24 Months = 50%		100
5	Spare Parts Supply Capability		Works Information: Capital Spares section.	<b>20</b>	
	5.1	Electrical and mechanical engineering works Provide a written letter of commendation from another end-user who has received more than 3 sets of version 6 V94.2 blades and vanes.	Letter stating the Warrantee and Guarantee conditions for the workmanship performed		30
	5.2	Supplier has version 6 V94.2 gas turbine spares (or proven equivalent) available for delivery to site with a lead time of less than 6 months.	Provide guarantees on spares availability for a period of at least 6 months.  6 Months = 100% 9 Months = 75% 12 Months = 50%		60

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**Gourikwa Major Inspection Services and spares**

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	<b>Qualitative Technical Criteria Description</b>		<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>	<b>Criteria Sub Weighting (%)</b>
	5.3	Supplier will replace at their cost any spares that fail before being in service at least 33000 EOH or 1570 starts, whichever comes first.	Guarantee from supplier		10
				<b>TOTAL: 100</b>	

During the tender evaluations the following table shall be used by the TET members to score each qualitative evaluation criterion on a scale of 0 to 5.

**Table 4: Scoring guideline – Qualitative evaluation criteria**

Score	Percent (%)	Appendix A Definition
5	100	COMPLIANT 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; 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>		

### 3.5 TET MEMBER RESPONSIBILITIES

**Table 5: TET Member Responsibilities**

<b>Mandatory Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4</b>	<b>TET 5</b>
<b>1</b>	X	X	X	X	X
<b>2</b>	X	X	X	X	X
<b>Qualitative Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4</b>	<b>TET 5</b>
<b>1</b>	X	X	X	X	X
<b>2</b>	X	X	X	X	X
<b>3</b>	X	X	X	X	X
<b>4</b>	X	X	X	X	X
<b>5</b>	X	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Using non-OEM parts that have been proven in similar machines and operating conditions with adequate guarantees.

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Using non-OEM parts that have not been proven in similar machines and operating conditions
2.	The use of third party supplied and/or refurbished spares
3.	The extensive use of sub-contractors (lack of expertise) to perform critical work

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

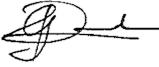
Risk	Description
1.	None

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Tinus Keyser	Chief Engineer	 2023-10-17
Leonard Calana	Senior Advisor Turbines	 2023-10-17
Lynette Mostert-Swart	Turbines System Engineering Manager	 2023-10-17
Pamela Mrubata	Plant Manager	 2023/10/17
Riaan de Goede	Senior Advisor C&I	 2023-10-17
Jean Fourie	System Engineer C&I	 2023-10-18
Khaya Kebeni	Outage Manager	 2023-10-17
Roxsanne Baloka	Senior Engineer Generator	 2023-10-18
Chaun Booysen	Generator System Engineering Manager	 2023-10-18
Seroko Choma	C&I System Engineering Manager (Acting)	 2023-10-18

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2023	1	Leonard Calana	New Document

#### 6. DEVELOPMENT TEAM

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

Leonard Calana

Tinus Keyser

Roxsanne Baloka

#### 7. ACKNOWLEDGEMENTS

n/a

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