Eskom	Report	Generation

Title: **Supply and Delivery of Bulk T2000 DCS Spares Modules for Camden, Majuba and Hendrina Technical Evaluation Strategy Report**

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Date: 09/10/26	Date 09/10/26	Date:09/10/26
……..	……	…….

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1. INTRODUCTION

This document presents the Technical Evaluation Strategy for the evaluation of the tenders for the Supply and Delivery of Bulk T2000 DCS Spares Modules for Camden, Majuba and Hendrina. The primary objective of this transaction is to supply and deliver bulk T2000 DCS spares modules to Camden Power Station and other stations will get their lists of spares there, in order to effectively support and run the stations till their end of life.

This strategy has been aligned to the requirements of the Tender Engineering Evaluation Procedure[1]. Refer to the Tender Engineering Evaluation Procedure[1] for a more detailed explanation of the evaluation process that is followed within Eskom.

2. BACKGROUND

The Gx C&I fraternity is besieged by high levels of obsolescence on electronic control system spares. This has prompted Gx to review the C&I Life Cycle Management approach strategy. Part of the Strategy is to sustain the existing obsolete systems longer (life extension plans) by seeking spares and mitigate against impact of obsolescence. The T2000 control system is already declared obsolete by the OEM, Siemens, and is no longer supported in terms of system failures, spares and module repairs.

The T2000 DCS was first installed at Majuba units 4 to 6 during the initial construction and commissioning of the power station in the mid 1990's. The T2000 control system is used for safe and reliable operation of a full coal fired units, coordinating all control loops to achieve optimum runup, operation, monitoring and safe shutdown of the unit. The control system also provides Operators, Engineers and Managers with process information to be able to conduct incident investigations and improve plant performance. This control system was also purchased in Hendrina during the control system refurbishment in 1995. The last unit to employ the system was Camden Power station during the RTS of 2006.

After that the T2000 system was then replaced by the T3000 system which has been Siemens current Power Generation control system since it was first installed in Kriel in 2007.Siemens announced obsolescence of the T2000 system in 2015 and for the next 5 years continued to support the system with technical knowhow, spares and repairs. Since 2021, all support for the system stopped and dependence on third party market was the order of the operations. The provision of spares to these Power Station's with old T2000 DCS will be such that the plant can be safely and reliably operated until its end of life.

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3. SUPPORTING CLAUSES

3.1 SCOPE

The document covers the tender evaluation strategy that will be adopted by all Technical Evaluation Team (TET) members when executing technical evaluations for Supply and Delivery of T2000 DCS Spares Modules for Camden, Majuba and Hendrina. The document also unpacks the various technical areas and sections of the Technical Specification Report in which the evaluation process is distributed.

3.1.1 Purpose

The purpose of this tender technical evaluation strategy is to document the evaluation process and obtain approval of the criteria for evaluation.

3.1.2 Applicability

This document shall apply to the Supply and Delivery of T2000 DCS Spares Modules for Camden, Majuba and Hendrina.

3.2 NORMATIVE / INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed below.

3.3 NORMATIVE

[1] 240-48929482: Tender Technical Evaluation Procedure

[2] 559-123589005: Approved C&I strategy, Eskom Generation Control and Instrumentation Refurbishment Execution Strategy

3.4 Informative

[3] ISO 9001 Quality Management Systems

3.5 ABBREVIATIONS

Abbreviation	Meaning given to the abbreviation
C&I	Control & Instrumentation
DCS	Distributed Control System
FAT	Factory Acceptance Testing

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Gx	Generation
HMI	Human Machine Interface
OEM	Original Equipment Manufacturer
TET	Technical Evaluation Team

4. TENDER TECHNICAL EVALUATION STRATEGY

Table 1:*Scoring method for Qualitative Section:*

SCORE	PERCENTAGE	DESCRIPTION
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**

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4.1 TECHNICAL COMPLIANCE EVALUATION

The minimum thresholds which the tenderers must obtain to be considered technically compliant for evaluations are stipulated as follows and shown in Figure 1:

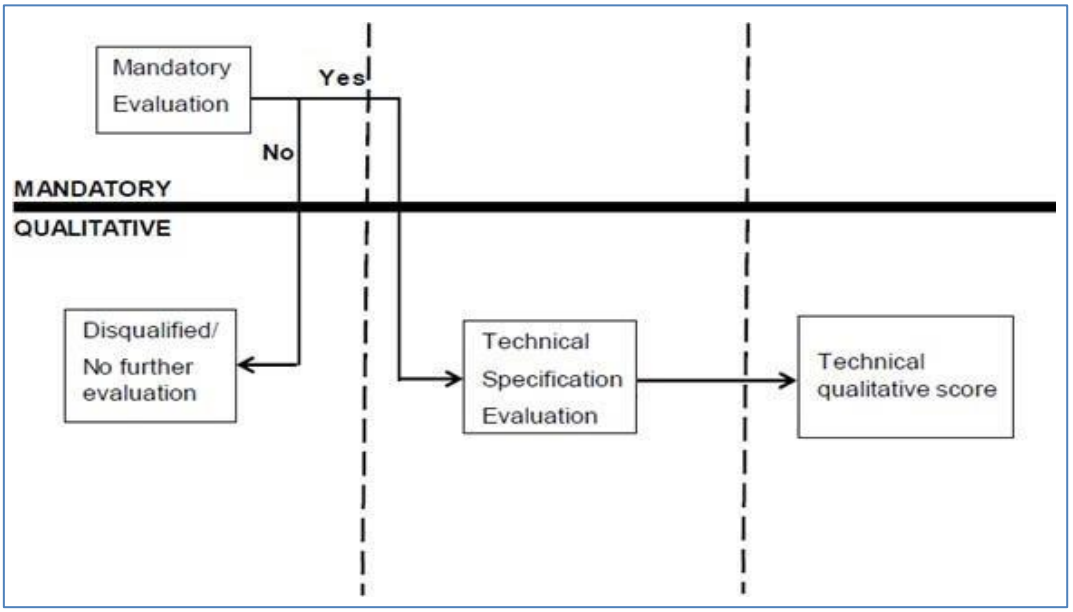

Figure 1: Technical Evaluation Thresholds

Note: The minimum qualitative weighted final score (threshold) required for a tender to be acceptable from a technical perspective is 70% or greater.

4.2 TET MEMBERS

Table 2: TET members

TET Number	TET Member Name	Designation
TET 1	Khaya Sobuwa	C&I Generation Cooperate Specialist
TET 2	Mahendra Maharaj	NBEIL Project Middle Manager
TET 3	Thokozani Msibi	C&I Generation Engineering Chief Engineer
TET 4	Nomatshawe Gantsho	NBEIL Program Manager
TET 4	Ntombifuthi Ngcobo	NBEIL Portfolio Middle Manager

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4.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 3: Mandatory Technical Evaluation Criteria

Not Applicable at this point

		Mandatory Technical Criteria Description	Scoring	Motivation for use of Criteria
1.1				
1.2				

4.4 TECHNICAL EVALUATION OF THE EMPLOYER'S REQUIREMENTS

These are weighted evaluation criteria and are used to identify the highest technically ranked tenderer. The weighting reflects the relevant importance of each criterion.

Table 4 below contains the list of qualitative evaluation criteria relating to technical specification.

Table 4: Qualitative evaluation criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	**General requirements**			**100**	
	1.1	**Provision of Company Technical structure and Resources with Staff Relevant Experience** (*permanent/temporary employee or sub-contractor*)	**Site Manager** • B-Tech/Beng or BSc in Electrical • Engineering (Control and Instrumentation Engineering/Computer systems Engineering Engineering/Electronics Engineering) **Service Engineer** • B -Tech/Beng or BSc in Electrical Engineering (Control and Instrumentation Engineering/Computer systems • Sales Experience of at least 3 years Provide a CV with **contactable** references on the relevant experience of at least more than 3 years ***Service Engineer and/or Manager*** 3 years and above = Score 5 2 years and above = Score 4 Less than 2 years = Score 2 No experience = Score 0	10%	

<table>
<tr><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>1.2</td><td>Indicate number of previous purchase orders of T2000 DCS spares modules you supplied previously. What nature of supply was it? Project or ordinary supply of spares</td><td>
<table>
<tr><th>Number of above categories provided (fully)</th><th>Multiple of Criteria Sub Weighting</th></tr>
<tr><td>1. No PO Order</td><td>0</td></tr>
<tr><td>2. 1 <= PO Orders</td><td>2</td></tr>
<tr><td>3. 3 <= PO Orders</td><td>4</td></tr>
<tr><td>4. 4 or more PO Orders</td><td>5</td></tr>
</table>
</td><td>15%</td><td></td></tr>
<tr><td></td><td>1.3</td><td>Demonstrate Capacity to provide bulk modules – at least 30% of the T2000 module types (in Annexure A of the SoW – there are 35 module types)
Demonstrate Extensive knowledge by showing Purchase Orders executed on bulk spares supply.</td><td>
<table>
<tr><th>Number of above categories provided (fully)</th><th>Multiple of Criteria Sub Weighting</th></tr>
<tr><td>1.< than 10% of the module types provided in the offer</td><td>0</td></tr>
<tr><td>2. < than 20% of the module types provided in the offer.</td><td>2</td></tr>
<tr><td>3. 40% of the module types provided in the offer.</td><td>4</td></tr>
<tr><td>4. 60 % or more module types provided in the offer.</td><td>5</td></tr>
</table>
</td><td>20%</td><td></td></tr>
</table>

<table>
<tr>
<td></td>
<td>1.4</td>
<td>Demonstrate Source of the T2000 DCS spares
Where will the spares be sourced from?
Demonstrate proof of a signed letter by the source confirming availability of these spares to be supplied</td>
<td>
<table>
<tr><th>Number of above categories provided (fully)</th><th>Multiple of Criteria Sub Weighting</th></tr>
<tr><td>1. No Letter at all by source</td><td>0</td></tr>
<tr><td>2. 1 <= Letter available not signed</td><td>2</td></tr>
<tr><td>3. 3 <= Letter available signed</td><td>4</td></tr>
<tr><td>4. 4 or more Letter signed and stamped</td><td>5</td></tr>
</table>
</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>Verify the Status of the modules
Are the modules new (unused), second hand or repaired?
If second hand or repaired have they been tested with certificate?
Demonstrate by proof of signed test certificates to confirm module status for unused, second hand and repaired modules.</td>
<td>
<table>
<tr><th>Number of above categories provided (fully)</th><th>Multiple of Criteria Sub Weighting</th></tr>
<tr><td>1. No module Status Verified</td><td>0</td></tr>
<tr><td>2. 1 <= Verified , no certificate</td><td>2</td></tr>
<tr><td>3. 3 <= Verified certificates not signed</td><td>4</td></tr>
<tr><td>4. 4 or more = Verified and signed certificates</td><td>5</td></tr>
</table>
</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.6</td>
<td>Demonstrate Delivery Turnaround and supply chain confidence</td>
<td>Provision of clear and realistic timeframe to deliver the spares, along with the project management methodology that will be used to ensure that</td>
<td>15%</td>
<td></td>
</tr>
</table>

		Provide Time Plan and Lead times Proposed Timelines. Indicate Shipping Terms and conditions which can affect delivery? Will the T&C's impact delivery times and costs Indicate when can the modules be delivered to site?	milestones are achieved timeously. The following are required: • Project management methodology showing planned delivery schedule and lead times • Shipping plans and T&C's • Risks that can affect delivery times and costs 0 points: No methodology and statement are received, regardless of timeline and no requirements addressed 2 points: Clear optimised methodology and statement received, Early timeline indicates 7+ weeks duration and 30% of requirements addressed 4 points: Early Clear methodology and statement received, timeline indicates 5-6 weeks duration and 50% of requirements addressed 5 points: Early Clear methodology and statement received, timeline indicates 3-4 weeks duration and all mentioned requirements at these points demonstrated and addressed		
			Total (100%)	100	

4.5 FORESEEN ACCEPTABLE/UNACCEPTABLE QUALIFICATIONS

From the experience gathered in past projects at Eskom, the following tables have been populated regarding the acceptable/unacceptable risks/exceptions/conditions. It should however be noted that due to the technical nature of the project certain exceptions/risks are only identified during tender evaluation and can only be addressed then.

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4.5.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	3rd Party Systems may not always be available at Factory Acceptance Testing (FAT). These will still be tested at Site Integration Testing (SIT).
2.	

Table 6: Unacceptable Technical Risks

Risk	Description
1.	As per the Mandatory Requirements

4.5.2 Exceptions/Conditions

Table 7: Acceptable Technical Exceptions/Conditions

Risk	Description
1.	As per the stipulated Qualitative Requirements.

Table 8: Unacceptable Technical Exceptions/Conditions

Risk	Description
1.	As per the Mandatory Requirements.

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5. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Khaya Sobuwa	C&I Generation Corporate Specialist
Ntombifuthi Ngcobo	PMO Middle Manager
Mehendra Maharaj	Middle Manager Projects
Thokozani Msibi	C&I Generation Engineering Chief Engineer

6. REVISIONS

Date	Rev.	Compiler	Remarks
October 2026	0.1	N. Gantsho	Technical Evaluation Criteria

7. DEVELOPMENT TEAM

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

- Nomatshawe Gantsho
- Khaya Sobuwa
- Mehendra Maharaj
- Thokozani Msibi

8. ACKNOWLEDGEMENTS

- Khaya Sobuwa
- Mehendra Maharaj
- Thokozani Msibi

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