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**Tender Technical Evaluation
Strategy – Unit 1 Condenser
tube Supply Contract**

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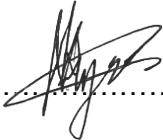
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1. INTRODUCTION

This tender technical evaluation strategy explains exactly how the tenders will be evaluated for the supply of new condenser tubes for Duvha's retubing project for main condenser.

2. SUPPORTING CLAUSES

2.1 Scope

This document concerns only the supply of the condenser tubes for main condenser. It does not include their transport or installation, nor does it concern the supply of stakes or the tools required for retubing.

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 condenser re-tubing at Duvha 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

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] ENS0079 Unit 1 Condenser Tube Supply WI

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
ITP	Inspection and Test Plan
MPDS	Material Product Data Sheet

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Abbreviation	Description
MSDS	Material Safety Data Sheet
QCP	Quality Control Plan
RT&D	Research, Testing and Development
TET	Technical Evaluation Team

2.5 Roles And Responsibilities

As per 240-48929482: Tender Technical Evaluation Procedure.

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%. Should no Contractor meet the minimum threshold of 70% Eskom reserves the right to negotiate and/or consider Contractors that obtained between 65% and 69%

3.2 Tet Members

Technical evaluation will be done by the member listed on table below:

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Wichert Huyser	Senior Engineer
TET 2	Keith Northcott	Senior consultant
TET 3	Herman v Niekerk	Senior consultant
TET 4	Fana Mlangeni	System Engineer

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3.3 Mandatory Technical Evaluation Criteria

Table 2: Mandatory Technical Evaluation Criteria

Mandatory Technical Criteria Description		Motivation for use of criteria
1	The Tube Mill shall have a Quality Management System that meets or exceeds the requirements of ISO 9001. Relevant and applicable Certification and the Quality Management Policy of the Tube Mill to be submitted	For quality
2	Providing verifiable/auditable evidence that 1 500 000 metres condenser tubes and/or heat exchanger tubing with wall thickness of ≤ 1.5 mm has been manufactured at the specified Tube Mill, as per tender, in the last 5 years. The verifiable/auditable evidence shall include power plant or applicable industrial heat exchanger applications i.e. petrochemical “End User” references, length, number of tubes and date supplied.	For quality and to establish that the manufacturer has the required experience to do the work.
3	In cases where the tube mill/manufacturer and Contractor are different entities, a formal original stamped and signed letter from the tube mill/manufacturer shall confirm/state the relationship between the tube mill/manufacturer and the Contractor specific to this particular supply. The letter shall contain contact details for the tube mill/manufacturer	For traceability and accountability

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3.4 Qualitative Technical Evaluation Criteria

Table 3: Qualitative Technical Evaluation Criteria

SPECIFIC REQUIREMENTS RELATIVE TO THE SCOPE OF WORK		Weight %
1	If Eskom has previously not received and successfully evaluated samples from the same Tube Mill as specified above then the specified Tube Mill shall submit at least two AIA approved test report/certificates (for the supply of condenser or heat exchanger tubing) which documents the results of the chemical analysis, metallurgical, mechanical, dimensional and NDT testing in accordance with ASTM B111M. Each of the two AIA approved test report/certificates shall be representative of a supply of $\geq 5\,000$ tubes of ≥ 8 metres tube length.	30
2	The Tube Mill shall provide a typical example of a Quality Control Plan or Inspection and Test Plan and to include a method statement which meets the minimum requirements of ASTM B111M, for the manufacturing of condenser tubes and/or heat exchanger tubing. All manufacturing processes together with "In-house" Quality Control activities to be included with acceptance criteria. The required documentation shall describe the heat and tube identification or traceability details and number of tests and retests.	25
3	Adherence to this Specification and/or ASTM B111M by either, the Tube Mill or Contractor. In the event that the Contractor fully adhere to the specification a statement to such effect shall be provided.	35
4	Tube Mill name, web address, e-mail address, contact telephone number and physical address. If more than one Tube Mill per tender is submitted then the tender will be considered technically non-compliant and will not be evaluated.	10
Score:		100

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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

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3.5 Foreseen Acceptable / Unacceptable Qualifications

3.5.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Minimum previous experience
2.	QCP not aligned to B111

3.5.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Organogram does not contain Quality Control personnel
2.	The material does not adhere to ASTM B111
3.	No sample tubes sent to RT&D for analysis

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
K Nzimande	Turbine Engineering Manager
F du Preez	Corporate Consultant

5. REVISIONS

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June 2020	1	W Huyser	First Issue

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