

Title: **Tender Technical Evaluation
Criteria**

Unique Identifier:

CAM - TES – 003 - 01

**TURBINE MECHANICAL AND
WELDING SERVICE CONTRACT
MAINTENANCE
3 YEARS**

Documentation Type:

**Tender Evaluation
Criteria**

Revision:

01

Total Pages:

13

Disclosure Classification:

**CONTROLLED
DISCLOSURE**

Compiled by



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Date: **21-01-2019**.....

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1. INTRODUCTION

Camden is currently on tender for a long-term contract for the mechanical ^[1] and welding work on the turbine plant. The contract is for the establishment of an on-site maintenance crew that can be utilised on an as required basis for the duration of the contract.

Note [1] – Mechanical as defined by the scope of work: CAM-TRB-WSCM-3-01

2. SUPPORTING CLAUSES

2.1 PURPOSE

The purpose of the tender technical evaluation criteria is to define the Mandatory and Qualitative Evaluation Criteria.

2.2 APPLICABILITY

- Camden Procurement Department
- Camden Tender Committee
- Contractors that are willing to participate in the tender

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

- The minimum weighted final score (threshold) from the qualitative criteria required for a tender to be considered technically acceptable is **75%**.

3.2 TENDER SUBMISSION

- The tender evaluation criteria documents must be submitted by the contractors as part of their tender submission in a neat, correctly indexed file containing all the tender evaluation documents.
- The tender criteria documents are to be numbered as they are in this document (Tender technical evaluation criteria)
- The mandatory criteria **must** be met entirely by each tender submission, failure to submit any of the mandatory requirements will **disqualify** the tenderer for the tender without further evaluation.
- All certification must be valid for it to be conceded during the tender evaluation.
- There are two mandatory criteria and seven qualitative criteria (with sub sections) to be submitted for this tender.

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
M - 1	<i>Provide demonstrable proof of pressure vessel and piping design capabilities:</i>		
M 1-1	<i>Submit a 3 Year track record / project list (project dates to be included) of all designs that were executed by the company.</i>	<i>3 Year track record / project list of all designs that were executed by the company</i>	It is required for the company to have matured vessel and piping design capabilities, evidence of the aforementioned must be submitted.
M 1-2	<i>Submit 1 Pressure Vessel Design Package for a SANS 347 Category 2 or higher pressure vessel signed off by a Pr.Eng and Authorised Inspection Authority (AIA) as approved for construction. <i>The design must indicate the registration numbers for both the Pr.Eng and AIA.</i></i>	<i>1 Pressure Vessel Design Package for a SANS 347 Category 2 or higher pressure vessel signed off by a Pr.Eng and Authorised Inspection Authority (AIA) as approved for construction. <i>The design must indicate the registration numbers for both the Pr.Eng and AIA.</i></i>	As mandatory evaluation criteria 1-1 is in essence a project list, a more detailed submission is required that illustrated the companies understanding of the work that is required from them. Registration for the Pr.Eng ECSA and Inspection Authority will be verified during the evaluation.

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	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
M - 2	<i>ISO 3834-2 and ISO 9001:2015 Certification:</i>		
M 2-1	<p><i>Submit a Valid ISO 3834-2 Certificate:</i></p> <p><i>There are two pages on an ISO 3834-2 certificate, of which both must be submitted.</i></p> <p><i>The contractor must be ISO 3834-2 certified for the standards: BS EN 13445, BS EN 13480, ASME Section VIII, ASME B31.1 and ASME B31.1</i></p> <p><i>The name of company tendering for the contract, must be the registered name on the ISO 3834-2 certificate that is submitted</i></p>	<p><i>Full Valid ISO 3834-2 certificate (2 pages) registered in the name of the company tendering for the contract and that is valid for the standards listed in the SOW (CAM-TRB-WSCM-3-01)</i></p> <p><i>The contractor must be certified for the following standards:</i></p> <p>BS EN 13445 BS EN 13480 ASME Section VIII ASME B31.1 and ASME B31.1</p>	<p>ISO 3834-2 - Quality requirements for fusion welding of metallic materials -- Part 2: Comprehensive quality requirements, is listed as a mandatory requirement for a contract that requires welding. It is an Eskom requirement that welding contractors are certified according to ISO – 3834-2</p>
M 2-2	<i>Submit a Valid ISO 9001:2015 Certificate</i>	<i>Valid ISO 9001:2015 Certificate</i>	<p>ISO 9001 certification is obtained if the company's quality management processes are compliant to the guidelines of ISO 9001, it is also listed as law governs a mandatory requirement as the documentation generated by hot work, and a certified quality management system is invaluable to ensure the documentation is managed in the proper manner.</p>

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3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Criteria Weight = 10%	
Q - 1	SUBMIT WELDING PROCEDURE QUALIFICATION (WPQR) FOR THE FOLLOWING JOINTS INCLUDING MECHANICAL TEST, NDE (AIA VERIFIED) RESULTS (ISO/IEC 17025) AND POST WELD HEAT TREATMENT PROCEDURES (WHERE APPLICABLE).
Q - 2.1	<i>¼" schedule 40 tube, 316 Stainless Steel to 316 Stainless Steel</i>
Q - 2.2	<i>1.5" schedule 80 tube, 10CrMo910 to 13CrMo44 alloy steel butt weld</i>
Q - 2.3	<i>8 " schedule 60 pipe, to 304L to 316 stainless steel butt weld</i>
Q - 2.4	<i>20 mm plate BS1501-151-gr430 to EN10028-2, 16Mo3 butt-weld</i>
Q - 2.5	<i>12" schedule XXS pipe EN10216-2, 15Mo3 to BS3602 HFS35 butt-weld</i>

Criteria Weight = 15%

Q - 2

SUPPLY PROOF OF QUALIFICATION AND ACCREDITATION FOR WELDERS:

- Construction code qualification to EN 9606
- International welder qualification for:
 - International Tube Welder.
 - International Plate Welder.
 - International Fillet Welder.

This welder training shall be based on IIW documents [IAB-089r5-14](#), [Parts 1 and 2](#).

[One \(1\) welder may have more than one qualification, although proof that the company has qualified welders on all three the different fields \(International plate, Tube and Fillet\) must be submitted](#)

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Criteria Weight = 15%

Q - 3

SUPPLY PROOF OF QUALIFICATION AND ACCREDITATION FOR WELDING COORDINATOR:

International Welding Engineer (IWE) in line with IIW document [IAB-252R2-14](#).

Or

International Welding Technologist (IWT) in line with IIW document [IAB-252R2-14](#).

And

ECSA Registration as Professional Engineer for the welding coordinator (applicable to both IWE or IWT), submit valid ECSA certificate.

Criteria Weight = 10%	
Q - 4	<p>SUPPLY PROOF OF QUALIFICATION AND ACCREDITATION FOR <u>WELDING SUPERVISOR</u> :</p> <p>International Welding Specialist (IWS) in line with IIW document IAB-252R2-14</p> <p style="text-align: center;"><u>Or</u></p> <p>International Welding Practitioner (IWP) in line with IIW document IAB-252R2-14</p> <p style="text-align: center;"><u>And</u></p> <p>Include welding supervisor CV</p>

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Criteria Weight = 15%

Q - 5

SUPPLY PROOF OF QUALIFICATION AND ACCREDITATION FOR WELDING INSPECTOR :

SAIW Welding and Fabrication Inspector Level 2.

OR

IIW International Welding Inspector: Standard (IWI- S)

OR

IIW International Welding Inspector: Comprehensive (IWI-C)

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Criteria Weight = 30%	
Q - 6	Demonstrable Proof to be submitted that the following Design standards are in the contractors possession^[1]:
Q - 6.1	PD 5500: Specification for unfired fusion welded vessels
Q - 6.2	BS EN 13445: Unfired Pressure Vessels
Q - 6.3	BS EN 13480: Metallic Industrial Piping
Q - 6.4	AD-2000: Technical rules for pressure vessels (TRB) / AD-Merkblätter
Q - 6.5	ASME Section VIII: Rules for construction of pressure vessels (divisions 1-3)
Q - 6.6	ASME PCC-2: Repair of Pressure Equipment and Piping

Note:

THE STANDARDS MUST BE PRESENTED TO THE TENDER EVALUATION TEAM ON A PRE DETERMINED DATE, AGREED UPON BY ALL INVOLVED PARTIES **(COPYING STANDARDS IS PROHIBITED AND IT IS NOT EXPECTED OF THE CONTRACTORS TO SUBMIT THE STANDARDS THE TENDER SUBMISSION)**, INSTEAD SUCCESSFUL TENDERERS WILL BE CONTACTED BY THE ESKOM PROCUREMENT OFFICER TO ARRANGE A DATE AND TIME FOR THE STANDARDS TO BE VERIFIED BY THE EVALUATION TEAM.

Criteria Weight = 5%

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Q - 7

Supply an actual example of a rigging study and rigging method statement