



Technical Evaluation Strategy

Generation
Tutuka Power Station
Risk and Assurance

| | | |
|---|-------------------------------|-----------------------|
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1. Introduction

This document establishes the technical evaluation strategy for the evaluation of suppliers that will be tendering in response of a request to provide Quality Assurance Activities and Performance of Physical Inspections on Outages (Planned and Unplanned), Maintenance and Projects activities at Tutuka Power Station for a period of 5 years. This technical evaluation strategy includes a detailed scope of works/supply, mandatory and qualitative technical evaluation criteria. Technical evaluation criteria list all the key aspects that will be used to adequately assess submitted returnable in order to find a suitable supplier to render the services required. Furthermore, it will ensure transparency in the evaluation process as per the requirements set out in the Generation Tender Engineering Evaluation Procedure (240-168966153)

1.1 Scope

Provision for Quality Assurance Activities on Outages (Planned and Unplanned), Maintenance and Projects activities at Tutuka Power Station for a period of 5 years.

1.1.1 Purpose

The purpose of this tender technical evaluation is to define the 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.

1.1.2 Applicability

This document applies to the Tender Evaluation Team for the Tutuka Power Station chain supplies.

1.1.3 Applicability

The effective date will be from the authorisation date.

1.2 Normative/Informative References

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

1.2.1 Normative

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] 240-48929482: Tender Technical Evaluation scoring form template
- [3] ISO 9001 2015: Quality Management Systems
- [4] 32-1034 Eskom Procurement Policy

1.2.2 Informative

N/A

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1.3 Definitions

1.3.1 Classification

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1.4 Abbreviations

| Abbreviation | Description |
|--------------|--------------------------------------|
| ISO | International Standards Organization |
| OEM | Original Equipment Manufacturer |
| OHS | Occupational Health and Safety |
| QCP | Quality Control Plan |
| QMS | Quality Management System |
| SA | South Africa |
| SANS | South African National Standards |
| TET | Technical Evaluation Team |
| WPS | Welding Procedure Specification |

1.5 Roles and Responsibilities

As per 240-48929482 Tender Technical Evaluation Procedure

1.6 Process for monitoring

Monthly reports

1.7 Related/Supporting Documents

[1] 240-48929482. Tender Technical Evaluation Procedure

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2. Tender Technical Evaluation Strategy

2.1 Technical Evaluation Method

The evaluation will be based on a two stage Technical Evaluation Strategy

Stage 1 Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria are not weighted, or points scored but, are assessed on a Yes/No basis to ascertain whether or not the criteria are met. An assessment of 'No' against any mandatory criterion will disqualify the tenderer and the tenderer will not be evaluated against Qualitative Criteria.

Stage 2: Qualitative Technical Evaluation Criteria is weighted evaluation criteria used to identify the highest technically ranked tenderer. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. The scoring method will be as follows:

| SCORE | PERCENTAGE | DESCRIPTION |
|-------|------------|--|
| 5 | 100 | COMPLIANT <ul style="list-style-type: none"> Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements. |
| 4 | 80 | COMPLIANT WITH ASSOCIATED QUALIFICATIONS <ul style="list-style-type: none"> Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR, Acceptable exceptions AND/OR, Acceptable conditions. |
| 2 | 40 | NON-COMPLIANT <ul style="list-style-type: none"> 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 |

The evaluation scores will be weighted as follows according to disciplines:

| Technical (100%) | |
|---|------|
| Quality Assurance and Inspection Activities | 100% |
| Project Management (N/A) | |
| TOTAL (100%) | |
| Overall minimum threshold for qualification (70%) | |

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2.2 Technical Evaluation Threshold

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%

2.3 TET Members

Table 1: TET Members

| TET Number: Section to be evaluated | TET Member Name | Designation |
|-------------------------------------|-----------------------|------------------------------------|
| TET 1 | Marius Prinsloo | Quality Officer |
| TET 2 | Keamogetse Merementsi | Senior Advisor Quality Engineering |
| TET 3 | Boitumelo Kotu | Quality Manager |
| TET 4 | Lameck Nyakane | Risk and Assurance Manager |

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2.4 Mandatory Technical evaluation criteria

Table 2: Qualitative Technical Evaluation Criteria

| | Mandatory Technical Criteria Description | Reference to Technical Specification / Tender Returnable | Motivation for use of Criteria |
|---|--|---|--------------------------------|
| 1 | N/A | N/A | N/A |

2.5 Qualitative Technical evaluation

Table 3: Qualitative Technical Evaluation Criteria

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2.5 Qualitative Technical evaluation

Table 3: Qualitative Technical Evaluation Criteria

| | Qualitative Technical Criteria Description | Reference to Technical Specification / Tender Returnable | Criteria Weighting (%) | Criteria Sub Weighting (%) |
|----|--|--|------------------------|----------------------------|
| 1. | C&I Quality Inspector National Diploma in Instrumentation Engineering (Light Current/C&I) 5 years Heavy Industrial Experience of which 3 years at a Power Station 3 Years Quality Control experience DCS/SCADA/PLC experience. Commissioning and Decommissioning Experience Knowledge of ISO 9001 2015 standard Knowledge of pneumatics and hydraulics Data book inspection and reviews | Returnable: Qualification + CV + DCS/SCADA/PLC Certificate + 5 Years experience = Score [5] Qualification + CV + DCS/SCADA/PLC Certificate + 4 Years experience = Score [4] Qualification + CV + DCS/SCADA/PLC Certificate + 3 Years experience = Score [2] Qualification + CV + DCS/SCADA/PLC Certificate + Less than 3 Years experience or not meeting requirements = Score [0] | 10 | 100 |

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| | | | | |
|----|--|---|----|-----|
| 2. | <p>Welding Quality Inspector</p> <p>SAIW Welding and Fabrication inspector Level I and Level II</p> <p>National Diploma in Mechanical Engineering (Added advantage)</p> <p>IIW International Welding Inspector</p> <p>Comprehensive (IWI-C)</p> <p>IIW International Welding Inspector Standard (IWI- S)</p> <p>5 years Heavy Industrial Experience of which 3 years at a Power Station</p> <p>3 Years Quality Control experience in welding</p> <p>Knowledge of receiving and Inspections on all plates, pipes and tools components</p> <p>Experience and good knowledge of scope of work reviews.</p> <p>Review of QCP's, Verification of Drawings and Materials</p> <p>Verification marking out of cut lines as per Engineering Instructions.</p> <p>Verification of NOT reports and procedures</p> <p>Verification of consumables.</p> <p>Witnessing of fit-ups, root runs and weld contour.</p> <p>Verify welding procedures and welding qualifications.</p> <p>Control of deviation through NCR procedures</p> <p>Final inspection data book reviews and release.</p> | <p>Returnable:</p> <p>Qualification + CV + 5 Years experience = Score [5]</p> <p>Qualification + CV + 4 Years experience = Score [4]</p> <p>Qualification + CV + 3 Years experience = Score [2]</p> <p>Qualification + CV + Less than 3 Years experience or not meeting requirements = Score [0]</p> | 15 | 100 |
|----|--|---|----|-----|

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| | | | | |
|--|--|--|--|--|
| | <p>In depth knowledge of all welding standard, design, inspections and testing Codes</p> <p>Specifications relevant to the Power Generation industry</p> <p>Witnessing of pressure and leak tests.</p> <p>Red seal welding certificate is an added</p> <p>Data book inspection and reviews</p> <p>Knowledge of ISO 9001 2015 standard.</p> | | | |
|--|--|--|--|--|

| | | | | |
|----|--|---|----|-----|
| 3. | <p>Outside Plant and inside plant Mechanical Quality Inspector</p> <p>National Diploma in Mechanical Engineering</p> <p>Trade test certificate in fitting and turning</p> <p>5 years post apprentice experience</p> <p>3 years specializing on rotating equipment e.g pumps</p> <p>Must have 3 years Mechanical Quality inspection experience</p> <p>Should be able to read micrometers (inside & outside micrometers)</p> <p>Should be able to work to very close tolerances of about(0.02mm)</p> <p>Should be able to use a clock gauge/dial test indicator</p> <p>Should be able to check run outs</p> | <p>Returnable:</p> <p>Qualification + CV + Alignment certificate</p> <p>5 Years experience = Score [5]</p> <p>Qualification + CV + Alignment certificate + 4 Years experience = Score [4]</p> <p>Qualification + CV + Alignment Certificate + 3 Years experience = Score [2]</p> | 30 | 100 |
|----|--|---|----|-----|

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| | | | | |
|----|--|---|----|-----|
| | <p>Must be able to verify laser alignment</p> <p>Should be able to read engineering drawings</p> <p>Knowledge of pneumatics and hydraulics</p> <p>Knowledge of NCR processes</p> <p>Knowledge of ISO 9001:2015 standard</p> <p>Data book inspection and reviews</p> | <p>Qualification + CV + Alignment Certificate + Less than 3 Years experience or not meeting requirements = Score [0]</p> | | |
| 4. | <p>Electrical Quality Inspector (All plant areas)</p> <p>National Diploma in Electrical Engineering (Heavy Current)</p> <p>5 years Heavy Industrial Experience of which a minimum of 3 years should be at a Power Station.</p> <p>3 Years Electrical QC Inspector</p> <p>Must be able to review scopes, generate or review PQPs</p> <p>Must be able to read engineering Drawings</p> <p>Knowledge of NCR processes</p> <p>Knowledge of ISO 9001 2015 standard</p> <p>Conduct Quality Audits</p> <p>Data book inspection and reviews</p> | <p>Returnable:</p> <p>Qualification + CV + 5 Years experience = Score [5]</p> <p>Qualification + CV + 4 Years experience = Score [4]</p> <p>Qualification + CV + 3 Years experience = Score [2]</p> <p>Qualification + CV + Less than 3 Years experience or not meeting requirements = Score [0]</p> | 10 | 100 |
| 5. | <p>Turbine and Valve Quality Inspector</p> <p>National Diploma in Mechanical Engineering</p> <p>Trade test in fitting and machining</p> | <p>Returnable:</p> <p>Qualification + CV + Fitting and Turner Certificate + Alignment Certificate</p> <p>5 Years experience = Score [5]</p> | 15 | 100 |

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| | | | | |
|--|---|---|--|--|
| | <p>5 years post apprenticeship Experience Of which 3 years should be power station experience Must have 3 years Turbine and Generator inspection experience</p> <p>3 Years Quality Control experience in the overhauling of the turbine/generator</p> <p>Have experience in the overhauling of the following pumps, valves (H.P & I P control valves, emergency stop valves), lube oil systems, oil pumps</p> <p>Should have experience in pressure testing of equipment</p> <p>Should be able to read micrometers (inside & outside micrometers)</p> <p>Should be able to work to very close tolerances of about (0.02mm)</p> <p>Should be able to use a clock gauge/ dial test indicator</p> <p>Should be able to check run outs on Shafts</p> <p>Must be able to review scopes, generate or review PQPs</p> <p>Must be able to read engineering Drawings</p> <p>Must be competent in conditioning monitoring i e. vibration analysis, tribology,</p> <p>Must have knowledge of turbine maintenance philosophy</p> <p>Knowledge of pneumatics and hydraulics</p> <p>Knowledge of NCR processes</p> <p>Knowledge of ISO 9001:2015 standard</p> | <p>Qualification + CV + Fitting and Turner Certificate + Alignment Certificate</p> <p>4 Years experience = Score [4]</p> <p>Qualification + CV + Fitting and Turner Certificate + Alignment Certificate</p> <p>3 Years experience = Score [2]</p> <p>Qualification + CV + Fitting and Turner Certificate + Alignment Certificate + Less than 3 Years experience or not meeting requirements = Score [0]</p> | | |
|--|---|---|--|--|

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| | | | | |
|----|--|--|----|-----|
| | Data book inspection and reviews | | | |
| 6. | Auxiliary Quality Inspector National Diploma in Mechanical Engineering 5 years Heavy Industrial Experience of which 3 years at a Power Station Engineering drawings interpretation 3 years chemical and water plant experience 3 years' experience in quality control Knowledge of ISO 9001:2015 standard Cooling Water systems for Power plants 3 years Condition monitoring experience Plant and equipment alignment (clock gauge/laser) Practical Machinery Vibration analysis & Predictive Maintenance 3 Years RBO experience ASME -Setting of Standards Pump maintenance Gear box maintenance 5 years knowledge in compressor maintenance 5 years machine-shop experience with limits and fits | Returnable: Qualification + CV + 5 Years experience = Score [5] Qualification + CV + 4 Years experience = Score [4] Qualification + CV + 3 Years experience = Score [2] Qualification + CV + Less than 3 Years experience or not meeting requirements = Score [0] | 10 | 100 |

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| | | | | |
|----|---|---|----|-----|
| | <p>Knowledge of Boiler Plant Operation</p> <p>Deming Water plant Operation</p> <p>Fluid Catalytic Cracking Unit Operation</p> <p>Data book inspection and reviews</p> | | | |
| 7. | <p>Quality Supervisor</p> <p>National Diploma in Engineering/Quality</p> <p>5 years Heavy Industrial Experience of which 3 years at a Power Station, 2 years Supervisory Experience</p> <p>3 Years Quality Control/Assurance experience</p> <p>Certificate of any Quality related courses</p> <p>Knowledge of ISO 9001: 2015 quality management system</p> <p>2 Years Quality Auditing Experience</p> <p>Sound knowledge of Eskom Business processes</p> <p>Knowledge of safety and risk assessment</p> <p>Root Cause Analysis</p> | <p>Returnable:</p> <p>Qualification + CV + 5 Years experience = Score [5]</p> <p>Qualification + CV + 4 Years experience = Score [4]</p> <p>Qualification + CV + 3 Years experience = Score [2]</p> <p>Qualification + CV + Less than 3 Years experience or not meeting requirements = Score [0]</p> | 10 | 100 |

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| | | | | |
|----|---|--|-----------|------------|
| | <p>Failure mode effective analysis</p> <p>Knowledge of supplier audits</p> <p>Knowledge of deviation control through NCR procedures.</p> <p>Data book inspection and reviews</p> | | | |
| 8. | <p>Civil Quality Inspector</p> <p>National Diploma in Civil Engineering</p> <p>5 years Heavy Industrial Experience of which a minimum of 3 years should be at a Power Station.</p> <p>Demonstrated experience across a broad range of Civil Engineering works, including road construction, structural works, dams, dredging, buildings, sewerage, and drainage systems</p> <p>3 Years QC Inspector</p> <p>Must be able to review scopes , generate or review PQPs</p> <p>Must be able to read engineering Drawings</p> <p>Knowledge of NCR processes</p> <p>Knowledge of ISO 9001:2015 standard</p> <p>Conduct Quality Audits</p> <p>Data book inspection and reviews</p> | <p>Qualification + CV + 5 Years experience = Score [5]</p> <p>Qualification + CV + 4 Years experience = Score [4]</p> <p>Qualification + CV + 3 Years experience = Score [2]</p> <p>Qualification + CV + Less than 3 Years experience or = Score [0]</p> | 10 | 100 |

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2.6 Technical Evaluation Team Member Responsibilities

The responsibilities of the Technical Evaluation Team are listed on the table below

Table 4: TET Member Responsibilities

| Qualitative Technical Criteria Description | TET 1 | TET 2 | TET 3 | TET 4 |
|--|-------|-------|-------|-------|
| 1 Ensure that evaluation process is executed to the set criteria and standard. | X | X | X | X |

2.7 Foreseen Acceptable/Unacceptable Qualifications

2.7.1 Risks

Table 5: Acceptable Technical Risks

| Risk | Description |
|------|-------------------------------|
| 1 | If overall score is above 70% |

Table 6: Unacceptable Technical Risks

| Risk | Description |
|------|-------------|
| 1. | None |

2.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

| Risk | Description |
|------|-------------|
| 1 | None |

Table 8: Unacceptable Technical Exceptions / Conditions

| Risk | Description |
|------|-------------|
| 1 | None |

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3. Acceptance

This document has been seen and accepted by:

| Name | Designation |
|----------------------|-------------------------------------|
| Marius Prinsloo | Quality Officer |
| Keamogetse Meremetsi | Senior Advisor Quality Engineering |
| Boitumelo Kotu | Quality Manager |
| Lameck Nyakane | Risk and Assurance Manager (Acting) |

4.Revisions

| Date | Rev. | Compiler | Remarks |
|-----------------|------|-----------------|--|
| 15 January 2026 | 2 | Marius Prinsloo | Insert Civil Quality Inspectors requirements |
| 07 August 2025 | 1 | Marius Prinsloo | Draft document for comments |

5.Development Team

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

- Marius Prinsloo
- Keamogetse Meremetsi
- Mosioua Mona
- Boitumelo Kotu

6.Acknowledgements

- N/A

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