

Title: **Tender Technical Evaluation
Strategy For Kusile Power
Station Vibration Probe
Replacement on the FD, ID &
PA Fans**

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1. INTRODUCTION

An invite will be issued calling for interested parties to participate in the tender process for the replacement of the vibration probes on the FD, ID and PA fans at Kusile Power Station. This document sets out the method and criteria that will be used to evaluate the tenders that will result from this pre-qualification invite.

2. SUPPORTING CLAUSES

2.1 SCOPE

This strategy defines the technical tender evaluation strategy for the Kusile Power Station vibration probe replacement works. The scope of the project is as described in the Kusile Power Station Works information for the equivalency change on vibration probes for FD, ID and PA fans.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and the TET member responsibilities for the tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This strategy document applies to the team working on the vibration probe replacement works on the FD, ID and PA fans.

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] 32-1034: Eskom Procurement Policy

2.2.2 Informative

- [3] 240-159142240 Works Information for the equivalency change on vibration probes for FD, ID and PA fans

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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 |
|---------------------|-------------------------------|
| CV | Curriculum Vitae |
| SOW | Scope Of Work |
| TES | Technical Evaluation Strategy |
| TET | Technical Evaluation Team |

2.5 ROLES AND RESPONSIBILITIES

| | |
|--|--|
| Compiler | The document compiler is responsible for ensuring that this document is up-to-date and that this document is not a duplication of an existing documentation, regarding the document's objectives and content. |
| Functional Responsibility (C&I Engineering Manager) | The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation. |
| Authoriser (Engineering Group Manager) | The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorise the release and application of the document. |
| Lead Discipline Engineers | Provides input to the technical tender evaluation strategy and associated engineering activities. |

2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by Design Review Procedure (240-53113685), this entails assuring that the design achieves the requirements set out in this document. Any changes to this document will be performed as per Project Engineering Change Management Procedure (240-53114026).

2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2.

3. TENDER TECHNICAL EVALUATION STRATEGY

In order to be eligible for evaluation, the tenderer shall meet all the mandatory requirements.

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The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified in the Kusile Power Station vibration probe replacement scope of works. A weighted score card approach will be used to evaluate the technical compliance of the tenders against the Employer's requirements. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

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%) | |
|--|------|
| General works | 100% |
| TOTAL (100%) | |
| Overall minimum threshold for qualification (70%) | |

3.2 TECHNICAL EVALUATION THRESHOLD

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

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3.3 TET MEMBERS

Table 1: TET Members

| TET number: Section to be evaluated | TET Member Name | Designation |
|--|------------------------|--------------------------------|
| TET 1: C&I Engineering | Adriel Dawson | C&I Engineer |
| TET 2: C&I Engineering (Optional) | Sipho Mthimunye | Boiler Engineer |
| TET 3: C&I Engineering | Simiso Tembe | C&I Maintenance Snr Technician |
| TET 4: Planning | Mapula Majola | Project Manager |
| TET 5: Planning | Reneilwe Moagi | Project Planner |
| TET 6: Planning | Job Phetlhe | Project Co-ordinator |

4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

1. An undertaking is required that resources identified would not be changed on award of the Contract.
2. The CV's of Key Personnel should have experience which is comparable in nature to the Works specified in this tender.
3. It is a requirement that the key personnel, in particular, have excellent communication skills in the English language.
4. Where no information is offered by the Tenderer no points shall be scored.

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Table 4: Qualitative Technical Evaluation Criteria

| | Qualitative Technical Criteria Description | | Reference to Technical Specification / Tender Returnable | Criteria Weighting (%) | Criteria Sub Weighting (%) |
|------|---|---|---|-------------------------------|-----------------------------------|
| 1. | GENERAL WORKS | | | 100% | |
| 1.1. | Comprehension of Scope | | | | |
| | 1.1.1 | <p>Provide a construction/installation methodology/typical method statement & quality assurance documentation for the scope of works for instrumentation replacement works. The method statement/s shall detail how the tenderer proposes to execute the works. The Method Statements shall clearly provide details of the installation method to be adopted to execute the scope of work. The method statement should clearly indicate a quality assurance process/approach to be undertaken throughout the project activities</p> <p>Minimum High-Level requirements:</p> <ul style="list-style-type: none"> ○ Typical Installation Method/ Description of the Works ○ Typical Quality Control and Inspection Test Plans ○ Typical Resource Responsibilities <p>⇒ Proposal details fully how scope will be met and provides comprehensive methodology of approach = 5;</p> <p>⇒ Proposal describes how scope will be met and includes minor details = 4;</p> <p>⇒ Proposal does not contain methodology of approach but contains high level descriptions of how construction will be conducted OR Technical proposal reiterates scope of works = 2</p> <p>⇒ No submission made = 0</p> | Method statement and Quality Control Plan | | 30% |
| 1.2 | Relevant Experience | | | | |
| | 1.2.1 | Relevant experience/ (track record): | List of previously completed projects of similar scope with | | 20% |

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| | Qualitative Technical Criteria Description | | Reference to Technical Specification / Tender Returnable | Criteria Weighting (%) | Criteria Sub Weighting (%) |
|-----|---|---|---|-------------------------------|-----------------------------------|
| | | <p>The tenderer submits a list of traceable references/completion certificates that adequately prove that the tenderer has completed two or more contracts successfully in the last five (5) years covering the scope below:</p> <ul style="list-style-type: none"> • Installation of instrumentation on rotary machinery (5%) • Installation and routing of field signal cables (5%) • Termination of cables in junction boxes (5%) • Recommissioning of instrumentation (5%) <p>This is inclusive of the subcontractor's records if applicable.</p> <p>⇒ Two (2) contracts over the past seven (7) years = 5 ⇒ One (1) Contract in the past seven (7) years = 4 ⇒ One (1) contract in the past 10 years = 2 ⇒ No previous experience = 0</p> | traceable references including completion certificates | | |
| | 1.2.2 | <p>Experience of key staff in relation to the Scope of Works.</p> <ul style="list-style-type: none"> • Demonstrate the level of relevant experience of key personnel. Relevant qualifications (degree/diploma/certificates) as well as curriculum vitae of key personnel to be submitted as part of the tender submission. The Key personnel inclusive of the engineer/technician need to have demonstrated works conducted within the field of instrumentation and control. They should also have a qualification associated to instrumentation and control. <p>⇒ Submitted CV only = 5% ⇒ Copy of qualifications = 5% ⇒ No CV and qualifications submitted = 0</p> | Detailed CV's Of Key Resources | | 10% |
| 1.3 | Project Execution Readiness | | | | |
| | 1.3.1 | Project Organogram | | | 15% |

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| | Qualitative Technical Criteria Description | | Reference to Technical Specification / Tender Returnable | Criteria Weighting (%) | Criteria Sub Weighting (%) |
|--------------|---|---|---|-------------------------------|-----------------------------------|
| | | <ul style="list-style-type: none"> The Tenderer is to submit the organisational structure of key personnel reflecting relevant roles to the SOW. A site organogram structure to be submitted covering the full scope of work. Key Resources have relevant. As per the List of Technical Tender Returnables. <ul style="list-style-type: none"> ⇒ Key resources have experience of more than 5 years = 5 ⇒ Key Resources have relevant experience 3 – 5 years = 4 ⇒ Key Resources have relevant experience and limited experience (1 – 2 years or less) = 2 ⇒ Key resources do not have relevant experience = 0 | Project Organogram | | |
| 1.4 | Project Execution Plan | | | | |
| | 1.4.1 | <p>Provide a typical project programme listing all activities that are required to execute the full scope of work from contract award to handover for the propose vibration probe replacement project. The dates generated by the Programme activities represent the anticipated start and completion of work required to execute the full scope of work in a logical and realistic manner.</p> <ul style="list-style-type: none"> ⇒ Full program/plan submitted = 5 ⇒ Program/Plan missing some activities = 2 ⇒ No plan = 0 | Project Programme/Schedule | | 25% |
| TOTAL | | | | | 100% |

5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

| Qualitative Criteria Number | TET Members T1-T3 |
|-----------------------------|-------------------|
| 1.1.1 | X |
| 1.2.1 | X |
| 1.2.2 | X |
| Qualitative Criteria Number | TET Members T4-T6 |
| 1.3.1 | X |
| 1.4.1 | X |

7.1 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

7.1.1 Risks

Table 6: Acceptable Technical Risks

| Risk | Description |
|------|---|
| 1. | Exclusion of a project schedule/programme |

Table 7: Unacceptable Technical Risks

| Risk | Description |
|------|---|
| 1. | Main Contractor does not have prior experience on the installation of vibration probes on rotary machines |

7.1.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

| Risk | Description |
|------|-------------|
| 1. | N/A |

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Table 7: Unacceptable Technical Exceptions / Conditions

| Risk | Description |
|-------------|--|
| 1. | No revelant qualifications or working experience on the subject matter |

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6 AUTHORISATION

This document has been seen and accepted by:

| Name & Surname | Designation |
|---------------------------|-------------------------|
| Mapula Majola | Project Manager |
| Mauritz VD Bank | C&I Engineering Manager |

7 REVISIONS

| Date | Rev. | Compiler | Remarks |
|--------------|-------------|-----------------|----------------|
| October 2021 | 1 | Adriel Dawson | First issue |

8 DEVELOPMENT TEAM

Adriel Dawson

9 ACKNOWLEDGEMENTS

N/A

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