

	Strategy	Engineering
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1. INTRODUCTION

An invite issued, calling for interested parties to participate in the tender process for the Medupi Power Station Unit 4 Repair, Replace and/or Reconstruction of Damaged Civil Infrastructure due to Generator Explosion. 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 TET, their responsibilities and the criteria to be used to evaluate the tenders received from interested parties.

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 strategy document applies to the engineering team working on the outstanding civil works at Medupi Power Station Water Treatment Plant.

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
- [3] ISO 9001 Quality Management Systems

2.2.2 Informative

- [4] 240-53113685: Design Review Procedure
- [5] 240-53114026: Project Engineering Change Management Procedure

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- [6] 241-202254: Medupi Power Station Unit 4 Repair, Replace and / or Reconstruction of Damaged Civil Infrastructure due to Generator Explosion

2.3 DEFINITIONS

Definition	Description
Contractor/Tenderer	Refers to the corporation appointed to perform the engineering, procurement, and construction works required for the project.
Employer	Refers to Eskom Holdings State Owned Company
Eskom Plant Engineering	Refers to the Eskom Engineering team who will perform the reviews and provide technical assistance for the work performed by the appointed Contractor.
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns
The Client	The end user will be Eskom who will be represented by Matimba Power Station throughout the duration of the Project.

2.3.1 Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
BMS	Building Management System
HVAC	Heating Ventilation and Air-Conditioning
ISO	International Standards Organization
CCTV	Closed-Circuit Television
SANS	South African National Standards
CV	Curriculum Vitae
ECSA	Engineering Council of South Africa
EDWL	Engineering Design Work Lead

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LDE	Lead Discipline Engineer
PBS	Plant Breakdown Structure
SHEQ	Safety, Health, Environmental and Quality
SoW	Scope of Works
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	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation.
Authoriser (Senior 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.
EDWL	The EDWL is responsible to manage the execution and adherence to this procedure. Typically on New Build projects the EDWL role is fulfilled by the Lead Discipline Engineer (LDE) and on existing asset projects the EDWL role is fulfilled by the relevant System Engineer / Plant Engineer
Lead Discipline Engineers	Provide input to the technical tender evaluation strategy and associated engineering activities.
Configuration Management Lead	Is accountable for ensuring that the engineering documentation, engineering systems and databases are correctly configured. As part of this role, the Configuration Practitioner is responsible for the development of the configuration management plan; configuration and management of the PBS and the management of plant item Tags.

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.

2.7 RELATED/SUPPORTING DOCUMENTS

Refer to Section 2.2.

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION METHOD

The basic steps for a technical evaluation must be followed as per the Tender Technical Evaluation Procedure [1].

A two stage Technical Evaluation Strategy is set out.

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

Stage 2: Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. 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 evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements.

Table 1: Scoring Method

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

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

Table 2: Evaluation Scores

Technical (100%)	
6.1 Civil And Structural	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 %.

3.3 TET MEMBERS

Table 3: TET Members

TET number	Designation	Name and Surname
TET 1	Medupi Unit 4 Recovery Engineering Manager	Stephen Likhetha
TET 2	Engineer: Civil Engineering	Marius van Niekerk
TET 3	Engineer: Civil Engineering	Rene Thijs

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3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

In order to be eligible for evaluation the tenderer shall meet the gatekeepers specified on the table below:

Table 4: Mandatory Evaluation Criteria

	Mandatory Technical Criteria Description	Source of Evidence	Motivation for use of Criteria
3.4.1.	List Of minimum 5 Similar Completed Construction Projects within last 10 years, with Partnership Agreement/Letter Of Intent If Applicable	Minimum 5 Similar Civil Infrastructure. Projects. The Contractor submits the following information with each reference project: <ul style="list-style-type: none">• Description• Value• Date• Client Contact details	Capacity to perform the work

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

1. The Tenderer shall submit a written undertaking stating that the proposed key personnel will be available for the project and will not be changed on award of the Contract. Where proposed key personnel are no longer available to undertake the work, the Tenderer shall provide a suitably qualified and experienced replacement with equivalent or higher qualifications and experience (subject to the approval by the Employer).
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 good communication skills in the English language.
4. Where no information is offered by the Tenderer no points shall be scored.

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3.6 CIVIL AND STRUCTURAL EVALUATION CRITERIA (50%)

Civil And Structural - Qualitative Technical Criteria					
No.	Criteria	Description	Criteria Weighting(%)	Sub Range	Pts
3.6.1	Construction Equipment List	Indicate application i.e. which equipment will be used as per the chosen methodology described in the Method Statement. Furthermore indicate the availability of the equipment. The Contractor provides indication of intent to hire/lease equipment where applicable.	20	Not Provided	0
				List with no methodology application BUT with availability indication OR intent to hire/lease	2
				List with methodology application AND availability indication OR intent to hire/lease	4
				List with methodology AND availability indication AND intent to hire/lease	5
3.6.2	Proposed Civil & Structural Work Plan (Programme)	Provide a Programme listing all civil & structural activities required to technically execute the full scope of work including all major milestones, major elements of procurement, construction, etc. 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.	20	Not Provided	0
				Programme provided BUT non-compliance to the SOW	2
				Programme provided AND compliance to the SOW BUT sequencing needs refinement	4
				Programme presented in a logical manner with full compliance to the SOW	5

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3.6.3	Method Statement For Execution Of The Proposed Civil & Structural Works	Provide a general method statement indicating how the tenderer will perform all civil & structural work required to execute the full scope of work as well as all possible interface and/or integration requirements. The Method Statement includes all elements of the scope, as well as the contractors plan to conduct construction monitoring in accordance with the Construction regulations. The Contractor includes and motivates any additional investigations that may be required to execute the full scope of work. Construction monitoring	40	Total deficiency AND non-compliance to the SOW	0
				Partial deficiency OR non-compliance to the SOW	2
				Partial deficiency AND compliance to the SOW	4
				Complete compliance to the SOW	5
3.6.4	CVs of key project team members to have a Minimum of 5 Years' Experience each.	<p>Provide complete project team structure (organograms) based on the full scope of work i.e. site team organogram</p> <p>The organogram must be accompanied by a letter confirming the availability of project team for the duration of the project It is noted that team members may only be replaced with individuals of equal or higher level of competence, after Client approval. The CVs of all civil and structural team members in organogram must be submitted.</p> <p><u>Minimum Requirements Team</u></p> <ul style="list-style-type: none"> • Project Manager • Contracts manager • Quality Manager • SHEQ team • Project Planner • Construction foreman 	20	Experience does not match the role and responsibility of the Professionally Registered Engineers or team	0
				CV Of Proposed Dedicated Professionally Registered Civil Engineer/Technologist To Have A Minimum Of 5 Years' Experience each. And less than 5 Of CV's Of Proposed Full Time Project Team	2
				CV Of Proposed Dedicated Professionally Registered Civil Engineer/Technologist To Have A Minimum Of 5 Years' Experience each. And 5 or more Of CV's Of Proposed Full Time Project Team	4
				CV Of Proposed Dedicated Professionally Registered Civil Engineer/Technologist To Have A Minimum Of 5 Years' Experience each. And all Of CV's Of Proposed Full Time Project Team	5

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4. TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
3.4.1	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
3.6		X	X

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4.1 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

4.1.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Provide Testimonials or Completion Certificates for at least 4 similar completed projects within the last 10 years

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Exclusion of CV's of key construction personnel
2.	Exclusion of a project specific schedule
3.	Provide Testimonials or Completion Certificates for at least 2 un-similar (civil works) completed projects within the last 10 years
4.	Unclear/incomplete organogram of key personnel

4.1.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Acceptable deviation with technical qualification

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Completion of the works in greater than 4 months
2.	Exclusions of Method Statement For Execution Of The Proposed Civil & Structural Works

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5. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Stephen Likhetha	Medupi Unit 4 Recovery Engineering Manager
Langa Zuma	Medupi Power Station Auxiliary Engineering Manager

6. REVISIONS

Date	Rev.	Compiler	Remarks
April 2022	0	M van Niekerk	-

7. DEVELOPMENT TEAM

Rene Thijs

8. ACKNOWLEDGEMENT

N/A

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