

	Strategy	Engineering
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Content

Page

1. Introduction.....	3
2. Supporting Clauses	3
2.1 Scope.....	3
2.1.1 Purpose.....	3
2.1.2 Applicability	3
2.1.3 Effective date.....	3
2.2 Normative/Informative References	3
2.2.1 Normative.....	3
2.2.2 Informative	3
2.3 Definitions	4
2.3.1 Enquiry.....	4
2.3.2 Tender.....	4
2.4 Abbreviations	4
2.5 Roles and Responsibilities	4
2.6 Process for Monitoring.....	4
2.7 Related/Supporting Documents.....	4
3. TENDER TECHNICAL EVALUATION STRATEGY	4
3.1 TECHNICAL EVALUATION THRESHOLD.....	5
3.2 WEIGHTED SCORECARD	5
3.3 TET MEMBERS	5
3.4 MANDATORY TECHNICAL EVALUATION CRITERIA.....	6
3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA	7
3.6 TET MEMBER RESPONSIBILITIES	10
3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	11
3.7.1 Risks	11
3.7.2 Exceptions / Conditions	11
4. Acceptance.....	13
5. Revisions.....	13
6. Development Team	14
7. Acknowledgements	14

Tables

Table 1: Table Example	5
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1. Introduction

An invite will be issued for interested parties to participate in the tender process for the purposes of acquiring professional engineering services for the Reheater Drying Project. This document sets out the method and criteria that will be used to evaluate the tenders that will be submitted from this pre-qualification invite.

2. Supporting Clauses

2.1 Scope

This strategy defines the technical evaluation team (TET) and their responsibilities regarding the defined scope for the Reheater Drying Project. The mandatory and qualitative evaluation criterion used to evaluate the submitted tenders is also included in this report.

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 will apply to the technical evaluation team appointed for the Reheater Drying Project.

2.1.3 Effective date

Effective from date of authorisation.

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 Rev1: Tender Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement Policy

2.2.2 Informative

- [3] ISO 9001:2015 Quality management systems
- [4] 474-59 Internal Audit Procedure

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[5] 240-168292144 Kusile Power Station Reheater Drying Project Scope of Work Rev.1

2.3 Definitions

2.3.1 Enquiry

A competitive or non-competitive request for information, interest, quotations or proposals made to a supplier, a group of suppliers or the market at large.

2.3.2 Tender

A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

2.4 Abbreviations

Abbreviation	Description
BOQ	Bill of Quantities
BTF	Boiler Tube Failure
ECC	Engineering and Construction Contract
ECN	Engineering Change Notification
ECSA	Engineering Council of South Africa
KPS	Kusile Power Station
NEC	New Engineering Contract
PEC	Professional Engineering Certificate
ISO	International Organization for Standardization

2.5 Roles and Responsibilities

The roles and responsibilities are as per the Tender Technical Evaluation Procedure [3].

2.6 Process for Monitoring

This procedure shall be monitored by the Internal Audit Procedure [4].

2.7 Related/Supporting Documents

Not applicable

3. TENDER TECHNICAL EVALUATION STRATEGY

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

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3.1 TECHNICAL EVALUATION THRESHOLD

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

3.2 WEIGHTED SCORECARD

The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified the NEC Section 3 namely Scope of Work A weighted score card approach will be used to evaluate the tenders against the Employer's requirements. The following scoring method will be used in general. The individual scores from the TET members on each evaluation criteria will be added and averaged to obtain a final score.

Table 1: Assessment Scorecard

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

3.3 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1		
TET 2		
TET 3		
TET 4		

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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:

Notes to tenderer:

1. Negative verification of references (including no responses or incomplete works) will result in the criteria not being met.

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Source of Evidence	Motivation for use of Criteria	Score
1.	Professional Registration with ECSA for the following engineering disciplines: Mechanical, Process, Civil & Electrical	Copy of Professional Certification of Engineering with ECSA	Construction Integrity	Yes / No
2.	Declaration of full compliance to Eskom Standards and specifications. Note: Deviations to the standard must be submitted as concessions and agreed on by both parties during tender negotiations.	Letter of declaration from the <i>Consultant</i> of full compliance to Eskom Standards and specifications.	Compliance to Eskom Standard	Yes / No

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3.5 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 have good communication skills in the English language.
4. Where no information is offered by the Tenderer no points shall be scored.

Table 4: Qualitative Technical Evaluation Criteria

Qualitative Technical Evaluation Criteria		Criteria Sub Weighting (%)	Tender Returnable(s)	Scoring Criteria	Score
1	Company's background and experience on design of Steam piping or High Pressure Equipment/Boiler related Projects or similar works.	40	Demonstrate experience on similar projects. Provide Testimonials or Completion Certificates for completed projects consisting of the following information: <ul style="list-style-type: none"> • Name of company where project was executed • Project Description • Construction period • Contract value 	5 = 100% = 2 or more completed projects of similar nature 4 = 80% = 1 completed project of similar nature 0 = 0% = 0 completed projects of similar nature	

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			<ul style="list-style-type: none"> Contact person and contact details (reference) 		
2	CV's of key personnel	20	<p>Provide CV's of key personnel as specified below: Minimum qualification Btech and 5 years' experience for all.</p> <ul style="list-style-type: none"> Mechanical Design Engineer Process Design Engineer Piping Design Engineer Electrical Design Engineer 	<p>5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> Minimum Btech, BSc, BEng, Master and 10 - 15 years' experience, or more <p>4 = 80% = COMPLIANT WITH ASSOCIATED EXPERIENCE.</p> <ul style="list-style-type: none"> Minimum Btech, BSc, BEng, Master and 5 but less than 10 years' experience. <p>0 = 0% = NON-COMPLIANT</p> <ul style="list-style-type: none"> Minimum Btech, BSc, BEng, Master and less than 5 years. 	
3	Methodology and organogram.	30	<p>Demonstrate how tenderer intend on executing the project by specified target date by providing the following information for evaluation purposes:</p> <ul style="list-style-type: none"> Provide typical project methodology document detailing how the Tenderer 	<p>5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> Detailed design methodology and organogram. <p>0 = 0% = NON COMPLIANT</p> <ul style="list-style-type: none"> No submission of design methodology and organogram. 	

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			<p>proposes to produce designs as per the SOW.</p> <ul style="list-style-type: none"> Provide organogram of key personnel of the main contractor. Organogram should include Management team, Project Manager, Draughtsman, Design Engineer (Piping), Design Engineer (Mechanical), Design Engineer (Process), Design Engineer (Civils & Structures) and Design Engineer (Electrical) as a minimum. 		
4	Project Planning	10	<p>Provide a project programme. Detailed program indicating the total duration for all the activities as per the SOW. The programme to show all activities as per the SOW i.e. offsite site activities and site activities with establishment and disestablishment.</p>	<p>5 = 100% = COMPLIANT</p> <ul style="list-style-type: none"> All activities with details of time in primavera. <p>4 = 80% = COMPLIANT SIMILAR PROGRAMME</p> <ul style="list-style-type: none"> All activities with details of time in MS Project. <p>2 = 40% = NON-COMPLIANT</p> <ul style="list-style-type: none"> Some activities with details of time in primavera/MS Project. <p>0 = 0% = TOTALLY DEFICIENT OR NON-RESPONSIVE</p>	

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				<ul style="list-style-type: none"> No submission or not related to works 	
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3.6 TET MEMBER RESPONSIBILITIES

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	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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3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Alternative solutions with similar or improved performance

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Exclusions to the specified scope
2.	Unclear personnel organogram
3.	Exclusion of a project specific schedule

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Acceptable deviation with technical justification

Table 8: Unacceptable Technical Exceptions / Conditions

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Risk	Description
1.	Deviation without technical justification

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
	Project Manager

5. Revisions

Date	Rev.	Compiler	Remarks
18 January 2022	0		New Document
08 March 2022	1		New Document
20 May 2022	2		Document updated.

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6. Development Team

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7. Acknowledgements

None.

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