Eskom	Strategy	Engineering

Title: Tender Technical Evaluation Strategy: Conversion of Old Simulator Building to Auditorium

Unique Identifier	**MEA-06773**
Alternative Reference Number	**N/A**
Area of Applicability	**Engineering**
Documentation Type	**Strategy**
Revision	**0**
Total Pages	**18**
Next Review Date	**N/A**
Disclosure Classification	**CONTROLLED DISCLOSURE**

Compiled by	Compiled by	Functional Responsibility	Authorised by
K Sohawan	**B Mathe**	**G Phelelo**	**L Ngobese**
System Engineer	**Senior Engineer**	**Auxiliary Line Manager**	**Engineering Manager**
Date 28/07/2023	Date 28-07-2023	Date 28/07/2023	Date 02/08/2023

CONTENTS

TABLES

1. INTRODUCTION

The Tender Technical Evaluation Strategy herein is detailed for the works required for the conversion of the old Simulator Building to an auditorium on Matla Power Station These works are inclusive of civil works, electrical works, HVAC design, supply and installation, and the supply and installation of auditorium equipment

2. SUPPORTING CLAUSES

2.1 SCOPE

The strategy defines the TET members, their responsibilities, and the criteria to be used to evaluate the Matla Power Station conversion of the old Simulator Building to an Auditorium

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 in the Auxiliary Plant Engineering Department which controls the methods of how buildings may be altered and repurposed

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

N/A

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
HVAC	Heating Ventilation and Air Conditioning
SARACCA	South African Refrigeration & Air Conditioning Contractors

2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482 Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

MEA- 06773 Simulator Building Upgrade Scope of Work

3. TENDER TECHNCIAL EVALAUTION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 75 %

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	-	Mechanical Engineer
TET 2	-	Civil Engineer

3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2. Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1	CIDB Grading 3 CE	Requirements for masonry work, suspended ceilings, tiling and painting	Medium sized civil works required, therefore maximum value of contract that the contractor is considered capable of performing is placed at R3 000 000, 00
2	SARACCA Membership (For HVAC installation Company)	Proof of valid SARACCA membership to be attached	To ensure companies comply with regulation governing Refrigeration and Air Conditioning Installation, maintenance and repairs
3	Professional Mechanical Engineer who will design and sign off the design and installation once commissioned and completed	Submit certified copies of academic qualification, ECSA certificate and CV	Mechanical heating ventilation and air conditioning systems are to be designed and signed off by a professional ECSA registered Engineer/Technologist

3 4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3 Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	**Traceable Evidence of projects Completed**		Company to provide list of previous work completed with proof of completion, Completion certificates and traceable contact person at the company where work was carried	**25**	
	1 1	Projects related to building refurbishment			33,3
	1 2	Projects related to sound and lighting installation			33,3
	1 3	Five (5) projects related to HVAC supply, installation, and commissioning with traceable references, project values, and duration			33,3
2	**Project Resources**			**10**	
	2 1	Civil Engineering Technician with at least 3- 5 years' experience	Submit CV and Proof of Qualification		100
3	**Project Resources**			**20**	
	3 1	HVAC Professional Engineer or Technologist, must have at least (5 to 10) years of experience in Designing, Installing, and commissioning HVAC systems	Submit certified copy of academic qualification, ECSA Certificate and CV with traceable references of proposed personnel		100
4	**Project Resources**			**5**	
	4 1	Safety officer with SAMTRACT or safety related qualification with (1-3) years' experience	Submit CV and Proof of Qualification		100

5	**Detailed Technical Methodology**		Submit the work specific technical Methodology	**20**	
	5 1	Sound proofing of auditorium			25
	5 2	Sloping of auditorium floor			25
	5 3	Supply and installation and commissioning of HVAC Systems			25
	5 4	Housekeeping and transporting of debris material offsite, inclusive of disposal			25
6	**Detailed Project Plan**		Submit the work specific detailed project plan	**10**	
	6 1	Start and finish date			33,3
	6 2	Details on how duration were estimated as well as logical sequencing			33,3
	6 3	Critical path clearly defined			33 3
7.	**Job Specific Quality Control Plan**		Submit job specific QCP	**10**	
	7 1	Sound proofing of auditorium			25
	7 2	Construction of sloped floor for auditorium seating			25
	7 3	Installation of lighting and sound equipment			25
	7 4	Supply and installation of HVAC system			25
				TOTAL· 100	

SECTION 1 TRACEABLE EVIDENCE OF PROJECTS COMPLETED

Traceable Evidence of Projects Completed (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Company to provide list of previous work completed with proof of completion, Completion certificates and traceable contact person at the company where work was carried		
0 traceable evidence provided	0	100
Projects related to building refurbishment OR Projects related to sound and lighting installation OR Five (5) projects related to HVAC supply, installation, and commissioning with traceable references, project values, and duration	2	
Projects related to building refurbishment AND/ OR Projects related to sound and lighting installation AND/ OR Five (5) projects related to HVAC supply, installation, and commissioning with traceable references, project values, and duration	4	
Projects related to building refurbishment AND Projects related to sound and lighting installation AND Five (5) projects related to HVAC supply, installation, and commissioning with traceable references, project values, and duration	5	
Total Score		100

SUB-SECTION 2.1 CIVIL ENGINEERING TECHNICIAN

CIVIL ENGINEERING TECHNICIAN (CRITERIA WEIGHTING – 10%)	Points	Score (%)
Working years within civil engineering technician post graduations		
0 - 3 years	0	100
3 - 4 years	2	
4- 5 years and above	4	
More than 5 years	5	
Total Score		100

SUB-SECTION 3 1 HVAC ENGINEER

HVAC ENGINEER (CRITERIA WEIGHTING – 20%)	Points	Score (%)
Working years within HVAC/Mechanical post graduations		
0 - 4 years	0	100

5 - 7 years	2	
7-9 years and above	4	
More than 10 years	5	
Total Score		**100**

SUB-SECTION 4 1 SAMTRACT OFFICER

SAMTRACT OFFICER (CRITERIA WEIGHTING – 20%)	Points	Score (%)
Working years within SAMTRACT/ safety post graduations		
0 years	0	100
1 - 2 years	2	
2-3 years and above	4	
More than 3 years	*5*	
Total Score		**100**

SUB-SECTION 5.1. SOUND PROOFING OF AUDITORIUM METHOD STATEMENT

SOUND PROOFING METHOD STATEMENT (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Items covered on Method Statement		
Method Statement covers 0 items	0	100
Method Statement covers 1 item	2	
Method Statement covers 2 items	4	
Method Statement covers 3 items	5	
Total Score		**100**

Sound Proofing Method Statement covering the following items but not limited to

a) Preparation of walls for installation
b) Installation of sound proofing on prepared walls
c) Installation of protective shield/ layer on top of sound proofing

SUB-SECTION 5 2· SLOPING OF AUDITORIUM FLOOR METHOD STATEMENT

SLOPING OF AUDITORIUM FLOOR METHOD STATEMENT (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Items covered on Method Statement		
Method Statement covers 0 items	0	100
Method Statement covers 1 item	2	
Method Statement covers 2 items	4	
Method Statement covers 3 items	5	
Total Score		100

Sloping of Auditorium Floor Method Statement covering the following items but not limited to

a) Preparation of floor (removable of tiles, grouting, skirtings etc)
b) Screeding of floors to facilitate drainage path and elevation for seating
c) Installation/ construction of stage area

SUB-SECTION 5.3 HVAC METHOD STATEMENT

HVAC METHOD STATEMENT (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Items covered on Method Statement		
Method Statement covers 0 items	0	100
Method Statement covers 1 to 3 items	2	
Method Statement covers 3 to 5 items	4	
Method Statement covers more than 6 items	5	
Total Score		100

HVAC Method Statement covering the following items but not limited to

d) Installation of packaged units
e) Installation of ducting, balancing dampers, fire dampers,
f) Pressure testing of ducting
g) Insulation and cladding of ducting
h) Installation of flexing ducting, grilles
i) Commissioning of HVAC System

j) Electrical and Control Installation
k) Construction of plinths

SUB-SECTION 5 4. HOUSEKEEPING AND TRANSPORTING OF DEBRIS MATERIAL OFFSITE, INCLUSIVE OF DISPOSAL METHOD STATEMENT

HOUSEKEEPING METHOD STATEMENT (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Items covered on Method Statement		
Method Statement covers 0 items	0	100
Method Statement covers 1 item	2	
Method Statement covers 2 items	4	
Method Statement covers 3 items	5	
Total Score		**100**

Housekeeping Method Statement covering the following items but not limited to

a) Provision made for a waste skip during construction processes
b) Removal of tiles, ceiling materials, HVAC debris and other construction debris
c) Transportation plan for removal of waste skips from site

SUB-SECTION 6.1' START AND END DATE OF DETAILED PROJECT PLAN

START AND END DATE OF DETAILED PROJECT PLAN (CRITERIA WEIGHTING – 33.3%)	Points	Score (%)
Items covered on Detailed Project Plan		
Project Plan covers 0 items	0	100
Project Plan covers 1 item	2	
Project Plan covers 2 items	4	
Project Plan covers 3 items	5	
Total Score		**100**

Start and end date inclusive in detailed project plan covering the following items but not limited to

a) Start date of project

b) End date of project
c) Critical path of project clearly stated

SUB-SECTION 6 2 TASK DURATIONS AND SEQUENCING OF DETAILED PROJECT PLAN

TASK DURATIONS AND SEQUENCING OF DETAILED PROJECT PLAN (CRITERIA WEIGHTING – 33 3%)	Points	Score (%)
Items covered on Detailed Project Plan		
Project Plan covers 0 items	0	100
Project Plan covers 1 to 3 items	2	
Project Plan covers 3 to 5 items	4	
Project Plan covers more than 6 items	5	
Total Score		100

Task durations and sequencing inclusive in detailed project plan covering the following items but not limited to

a) Sound proofing
b) Tiling
c) Ceiling and lighting refurbishment
d) Sloped auditorium floor
e) Supply and installation of sound equipment
f) Supply and installation of HVAC system

SUB-SECTION 6.3: CRITICAL PATH CLEARLY DEFINED OF DETAILED PROJECT PLAN

CRITICAL PATH CLEARLY DEFINED OF DETAILED PROJECT PLAN (CRITERIA WEIGHTING – 33 3%)	*Points*	*Score (%)*
Items covered on Detailed Project Plan		
Project Plan covers 0 items	0	100
Project Plan covers 1 item	2	
Project Plan covers 2 items	4	
Project Plan covers 3 items	5	
Total Score		100

Start and end date inclusive in detailed project plan covering the following items but not limited to

a) Critical path clearly highlighted

b) Risks to critical path clearly defined
c) Mitigation measured to risks clearly defined

SUB-SECTION 7.1. SOUND PROOFING METHOD STATEMENT

QUALITY CONTROL PLAN (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Quality Control Plans submitted		
Submitted 0 QCPs	0	100
Submitted 1 QCP	2	
Submitted 2 QCPs	4	
Submitted 3 QCPs	5	
Total Score		**100**

QCP required with interventions for the following but not limited to

a) Preparation of walls for sound proofing installation
b) Installation of sound proofing
c) Finishing layer to sound proofing prior to final wall preparation

SUB-SECTION 7.2: CONSTRUCTION OF SLOPED FLOOR METHOD STATEMENT

QUALITY CONTROL PLAN (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Quality Control Plans submitted		
Submitted 0 QCPs	0	100
Submitted 1 QCP	2	
Submitted 2 QCPs	4	
Submitted 3 QCPs	5	
Total Score		**100**

QCP required with interventions for the following but not limited to

a) Preparation of floor (removable of tiles, grouting, skirtings etc)
b) Screeding of floors to facilitate drainage path and elevation for seating plan
c) Installation/ construction of stage area

SUB-SECTION 7.3. INSTALLATION OF LIGHTING AND SOUND EQUIPMENT METHOD STATEMENT

QUALITY CONTROL PLAN (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Quality Control Plans submitted		
Submitted 0 QCPs	0	100
Submitted 1 QCP	2	
Submitted 2 QCPs	4	
Submitted 3 QCPs	5	
Total Score		**100**

QCP required with interventions for the following but not limited to

a) Installation of lighting, light switches and plug points
b) Installation of sound and PA systems
c) Installation of screen and projector

SUB-SECTION 7 4 : HVAC METHOD STATEMENT

QUALITY CONTROL PLAN (CRITERIA WEIGHTING – 25%)	Points	Score (%)
Quality Control Plans submitted		
Submitted 0 QCPs	0	100
Submitted 1 to 3 to QCPs	2	
Submitted 4 to 5 QCPs	4	
Submitted 6 or more QCPs	5	
Total Score		**100**

QCP required with interventions for the following but not limited to

a) Ducting installation
b) Electrical and Control Installations
c) Packaged Unit installation
d) Installation of Diffusers/Grilles
e) Duct Pressure Test
f) Construction of plinths

3.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
1	X	X
2	X	X
3	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**
1	X	X
2	X	X
3	X	X
4	X	X
5	X	X
6	X	X
7	X	X

3 7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5 Acceptable Technical Risks

Risk	Description
1	Design changes to the layout of the auditorium
2	
3	
4	
5	
6	
7	

Table 6. Unacceptable Technical Risks

Risk	Description
1	Design changes are non- adherent to SANS and Eskom standards
2	
3	
4	
5	
6	
7	

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

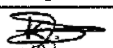
Risk	Description
1	None foreseeable
1	
2	
3	
4	
5	
6	

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1	No foreseeable
2	
3	
4	
5	
6	
7	

4. AUTHORISATION

This document has been seen and accepted by

Name	Designation	Signature
K Sohawan	System Engineer	
B Mathe	Senior Engineer	
J Botha	Project Manager	

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2023	0	K Sohawan B Mathe	Document required for commercial processes

6. DEVELOPMENT TEAM

The following people were involved in the development of this document

- K Sohawan
- B Mathe

7. ACKNOWLEDGEMENTS

None