


| | | |
|---|---------------|-------------------|
|  | Report | Generation |
|---|---------------|-------------------|

Title: **Lethabo Solar PV Plant Non-Lethal Perimeter Detection System Security Fence: Technical Evaluation Strategy Report**

Unique Identifier: **375-LET-AABZ31-SG0002-19**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Report**

Revision: **1**

Total Pages: **13**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

Compiled by



T H Mukwevho

Security Manager

Date: 21.09.2022

Functional Responsibility

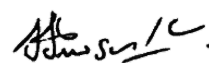


Sifiso Maringa

Risk and Assurance

Date: 21.09.2022

Authorised by



H Sewsunker

Engineering Manager

Date: 21.09.2022

CONTENTS

| | Page |
|---|-----------|
| 1. INTRODUCTION..... | 4 |
| 2. SUPPORTING CLAUSES | 4 |
| 2.1 SCOPE..... | 4 |
| 2.1.1 Purpose..... | 4 |
| 2.1.2 Applicability | 4 |
| 2.2 NORMATIVE/INFORMATIVE REFERENCES | 4 |
| 2.2.1 Normative..... | 4 |
| 2.2.2 Informative | 5 |
| 2.3 DEFINITIONS | 5 |
| 2.3.1 Disclosure Classification | 5 |
| 2.4 ABBREVIATIONS | 5 |
| 2.5 ROLES AND RESPONSIBILITIES | 5 |
| 2.6 PROCESS FOR MONITORING | 5 |
| 2.7 RELATED/SUPPORTING DOCUMENTS | 5 |
| 3. TENDER TECHNICAL EVALUATION STRATEGY | 5 |
| 3.1 TECHNICAL EVALUATION THRESHOLD | 5 |
| 3.2 TET MEMBERS | 6 |
| 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA..... | 6 |
| 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA | 7 |
| 3.5 TET MEMBER RESPONSIBILITIES | 11 |
| 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS | 12 |
| 3.6.1 Risks | 12 |
| 3.6.2 Exceptions/Conditions | 12 |
| 4. AUTHORISATION | 13 |
| 5. REVISIONS..... | 13 |
| 6. DEVELOPMENT TEAM..... | 13 |
| 7. ACKNOWLEDGEMENTS..... | 13 |

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

TABLES

| | |
|---|----|
| Table 1: TET Members | 6 |
| Table 2: Mandatory Technical Evaluation Criteria | 6 |
| Table 3: Qualitative Technical Evaluation Criteria | 9 |
| Table 4: TET Member Responsibilities | 11 |
| Table 5: Acceptable Technical Risks | 12 |
| Table 6: Unacceptable Technical Risks | 12 |
| Table 7: Acceptable Technical Exceptions/Conditions | 12 |
| Table 8: Unacceptable Technical Exceptions/Conditions | 12 |

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

1. INTRODUCTION

Lethabo Power Station is setting up an EPC Contract for the provision of Design, Engineering, Procurement, Construction, Construction Management, Start-up, Commissioning, Performance Testing and Operator Training of a Non-Lethal Perimeter Detection System (NLEPDS) security fence for the Lethabo PS solar PV plant. A Technical Evaluation Strategy is required to document the Technical Evaluation Criteria as per the Tender Technical Evaluation Procedure 240-48929482.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document describes how tenders received for the EPC Contract for Lethabo PS Solar PV Plant Non-Lethal Perimeter Detection System Security Fence will be technically evaluated and scored.

2.1.1 Purpose

This Technical Evaluation Strategy defines the:

- Mandatory Evaluation Criteria,
- Qualitative Evaluation Criteria and
- Technical Evaluation Team (TET) Member Responsibilities

The Technical Evaluation Strategy serves as basis for the tender Technical Evaluation Process.

2.1.2 Applicability

This document applies to EPC Contract for Lethabo PS Solar PV Plant Non-Lethal Perimeter Detection System Security Fence.

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.

CONTROLLED DISCLOSURE

[2] Lethabo Solar PV Plant Non-Lethal Energized Perimeter Detection System Technical Specification NEC ECC3: Works Information - EPC Contract for Lethabo Solar Photovoltaic System.

2.2.2 Informative

[1] None.

2.3 DEFINITIONS

None.

2.3.1 Disclosure Classification

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

2.4 ABBREVIATIONS

| Abbreviation | Description |
|--------------|---|
| EPC | Engineering, Procurement and Construction |
| TET | Technical Evaluation Team |
| NLEPDS | Non-Lethal Energized Perimeter Detection System |
| CCTV | Closed Circuit Television |

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure.

2.6 PROCESS FOR MONITORING

As per 240-48929482: Tender Technical Evaluation Procedure.

2.7 RELATED/SUPPORTING DOCUMENTS

N/A.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for the tendered scope of work to be considered '**Functionally Acceptable**' from a technical perspective is **70%**. This threshold will provide acceptable minimum quality based on the criteria weightings in **Table 4**.

CONTROLLED DISCLOSURE

3.2 TET MEMBERS

Table 1: TET Members

| TET number | TET Member Name | Designation |
|------------|------------------|-----------------------------------|
| TET 1 | Tshepo Serameng | Project Manager |
| TET 2 | T H Mukwevho | Security Manager |
| TET 3 | David Kunene | Senior Technologist Electrical |
| TET 4 | Rajiv Beharie | Senior Engineer C&I |
| TET 5 | Fisher Magowa | Senior Advisor Finance Division |
| TET 6 | Nicolan Govender | Senior Engineer Prof Civil |
| TET 7 | Miranda Skaka | Engineer Engineer Prof Electrical |

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

In accordance with 240-48929482, an Assessment of '**NO**' against any criterion referenced # in **Table 2** shall **Disqualify** the assessed Tendered Design from further Qualitative Evaluation.

Table 2: Mandatory Technical Evaluation Criteria

| Ref # | Mandatory Technical Criteria Description | Reference to Technical Specification / Tender Returnable | Motivation for use of Criteria |
|-------|---|---|---|
| 1. | Registration with PSiRA (including System Sub-contractors) | Works Information Section: Lethabo PV Plant NLEPDS Security Fence Scope of Work. Section 3.2.3 (6)(i). | Ensures tenderer (Contractor and Sub-contractors of NLPDS security fence) are registered and operating within the regulations of Private Security Industry Regulation Act 56 of 2001. |
| 2. | Project experience / Reference projects: Provide at least two testimonials or Completion Certificates as proof of successful projects undertaken in the last 5 years that were similar in scope. This includes subcontractor's records for works | Testimonial(s) or completion certificates contain the following information for evaluation purposes: 1) Name of company where project was executed | Ensures the tenderer is capable of performing the works with evidence of |

CONTROLLED DISCLOSURE

| | | |
|--|--|--|
| where services of a subcontractor will be utilised. 'Similar scope' is considered to be a NLPDS security fence project for an industrial site such as power generation (power station); mines, refineries etc. which included projects phases of design, installation, and commissioning and as-built documentation handover. | 2) Project Description 3) Construction period 4) Contract value 5) Contact person 6) Purchase order provided | successful past projects. Provide purchase order as proof of works completed. |
|--|--|--|

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

In accordance with 240-48929482, Tenders that have met all the Mandatory Evaluation Criteria will be evaluated against the Qualitative Evaluation Criteria defined in **Table 4**.

The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the Technical Requirements defined in each Tendered Design Technical Specification – 'Lethabo Solar PV Plant Non-Lethal Energized Perimeter Detection System Security Fence: System Technical Specification - 375-LET-AABZ28-SP0004-40.

Each item shall have the specific sub-weighting criteria that shall be scored in accordance with **Table 3**. (ref 240-48929482-Table 2). For scope of works where the sub-criteria is not applicable that sub-criteria weighting, which is blank in **Table 4**, will be set to zero (0%) when the final specific Qualitative Technical Evaluation Criteria Matrix is set by the respective End-user TET Member.

CONTROLLED DISCLOSURE

Table 3: Scoring Guide for Qualitative Technical Evaluation Criteria

| SCORE | PERCENTAGE | DESCRIPTION |
|--|------------|--|
| 5 | 100 | COMPLIANT Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements. |
| 4 | 80 | COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR Acceptable conditions. |
| 2 | 40 | NON-COMPLIANT 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 |
| Note 1: The scoring table does not allow for scoring of 1 and 3 as per procedure 240-48929482. | | |

The recommendation on the highest technically ranked tenderer shall be based on the final scoring comparisons and the tenderer with the highest score shall be recommended from a technical perspective, if the weighted final score exceeds the defined threshold.

CONTROLLED DISCLOSURE

**Lethabo Solar PV Plant EPC Contract Technical
Evaluation Strategy Report**

Unique Identifier: **375-LET-AABZ31-
SG0002-19**
Revision: **1**
Page: **9 of 13**

Table 3: Qualitative Technical Evaluation Criteria

| Criteria Ref # | Qualitative Technical Criteria Description | | Reference to Technical Specification | Tender Returnable | Scoring Criteria | Sub-criteria Weighting (%) | Criteria Weighting (%) |
|----------------|--|---|--|--|--|----------------------------|------------------------|
| 1 | 1.1 | Compliance to Technical Schedule A/B for the non-lethal electrified fence | 375-LET-AABZ28-SP0004-40 Lethabo PS Solar PV Plant NLEPDS Security Fence: System Technical Specification | Completed schedule A/B | As per Schedule A/B | 40 | 80 |
| | 1.2 | Include Practical Demonstration Evaluation requirements, as referenced in Appendix B of the Technical Evaluation Criteria 240-134779125. This is an important demonstration activity that has to be done by the Contractor at his facility as evidence to Eskom that the proposed equipment (specifically for Energized Fence) will function properly at Lethabo PS during commissioning. | 240-134779125 Evaluation Criteria for NLEPDS | | | 40 | |
| 2 | | Provide a signed letter confirming that civil designs are in line with SANS 1200 Eskom | | Signed letter confirming that civil designs are in line with SANS 1200 | 5 / 100% = Signed letter with no deviations. | | 20 |

**Lethabo Solar PV Plant EPC Contract Technical
Evaluation Strategy Report**

Unique Identifier: **375-LET-AABZ31-
SG0002-19**
Revision: **1**
Page: **10 of 13**

| Criteria Ref # | Qualitative Technical Criteria Description | | Reference to Technical Specification | Tender Returnable | Scoring Criteria | Sub- criteria Weighting (%) | Criteria Weighting (%) |
|-------------------|---|--|---|---|--|--------------------------------------|------------------------------|
| | | Standard for High Security Mesh Fencing 240-76368574i | | Eskom Standard for High Security Mesh Fencing 240-76368574i | 4 / 80% = Signed letter submitted with deviations all having acceptable risks. 2 / 40% = Signed letter submitted with any deviation(s) having unacceptable risks. 0 / 0% = No submission. | | |

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

| | | TET 1 | TET 2 | TET 3 | TET 4 | TET 5 | TET 6 | TET 7 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|
| Mandatory Criteria Number | | | | | | | | |
| 1 | | X | X | X | X | X | X | X |
| Qualitative Criteria Number | | | | | | | | |
| 1 | 1.1 | | X | X | X | X | X | X |
| | 1.2 | | X | X | X | X | X | X |
| 2 | | | X | X | | X | | X |

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

| Risk | Description |
|------|-------------|
| 1. | |
| 2. | |
| 3. | |

Table 6: Unacceptable Technical Risks

| Risk | Description |
|------|---|
| 1. | Mandatory criteria not met. |
| 2. | Not meeting equipment minimum specifications. |

3.6.2 Exceptions/Conditions

Table 7: Acceptable Technical Exceptions/Conditions

| Risk | Description |
|------|--|
| 1. | Declining to provide technical details accurately deemed intellectual proprietary. |
| 2. | |
| 3. | |

Table 8: Unacceptable Technical Exceptions/Conditions

| Risk | Description |
|------|--|
| 1. | Tendering without conducting Site Visits. Prospective contractor should visit site to assess the place considering that no formal upfront design was approved. |

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

4. AUTHORISATION

This document has been seen and accepted by:

| Name | Designation |
|------------------|-----------------------------------|
| Tshepo Serameng | Project Manager |
| T H Mukwevho | Security Manager |
| Sifiso Maringa | Risk & Assurance Manager |
| David Kunene | Senior Technologist Electrical |
| Rajiv Beharie | Senior Engineer C&I |
| Fisher Magowa | Senior Advisor Finance Division |
| Nicolan Govender | Senior Engineer Prof Civil |
| Miranda Skaka | Engineer Engineer Prof Electrical |
| Remofilwe Ranaka | Senior Technologist |

5. REVISIONS

| Date | Rev. | Compiler | Remarks |
|------------|------|----------------|-------------|
| 13/09/2022 | 0 | Hilda Mukwevho | First Issue |
| | | | |

6. DEVELOPMENT TEAM

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

- Hilda Mukwevho
- Miranda Skaka
- Tshepo Serameng

7. ACKNOWLEDGEMENTS

- NA

CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.