

	Strategy	Engineering
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Strategy for Traditional Lights
Replacement Project**

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1. INTRODUCTION

This document sets out the method and criteria that will be used to evaluate the tenders for the project scope: Traditional Lights Replacement Project.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the project scope: Traditional Lights Replacement Project. The scope of the project is supply, deliver, and install and conduct survey to ensure sufficient lighting in the area for high must lights in the following areas.

Table 1: Light Source Types Per Plant Area

Light Description	Plant Areas
70W LED Bulkhead Replacement for 100W HPS Bulkhead Light	- Boiler and PJFF Plant - Turbine Plant - Compressor Plant - Water Treatment Plant
80-90W LED Floodlight Replacement for 150W HPS Floodlights	Boiler and PJFF
600x600mm LED Panel Light replacement for 2ft Fluorescent 24W Tubes	- Admin Building - Aux Bay Offices
600x1200mm LED Panel Light replacement for 5ft Fluorescent 54W Tubes	- Aux Bay - Admin Building
4ft LED Light replacement for 4ft Fluorescent 54W Tubes	Aux Bay
280W LED High Bay replacement for 600W High Bay Light	- Turbine Hall - Recirc Pump House - Diesel Generators House - Water Treatment Plant
5 - 9W LED Bulb replacement for 9W Energy Saving Bulbs	- Control Rooms - Aux Bay - Admin Buildings

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 document applies only to Kusile Power Station.

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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] KUS- 20241077: Kusile Power Station Scope of Work Replacement of Traditional Lights
- [3] ISO 9001 Quality Management Systems
- [4] 240-56356396 - Earthing and Lightning Protection Standard
- [5] 240-55714363 Eskom Generation Power Station Lighting and Small Power Standard Rev 2
- [6] SANS 10389-1 Part 1: Artificial lighting of exterior areas for work and safety
- [7] SANS 1464-22:2024: Safety of luminaires Part 22: Luminaires for emergency lighting
- [8] SANS 10114-1:2023: Interior lighting Part 1: Artificial lighting of interiors
Informative

2.2.2 Informative

- [9] NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT 59 OF 2008

2.3 DEFINITIONS

Definition	Description
Contractor/Tenderer	Refers to the corporation appointed to perform the services required for the project.
Employer	Refers to Eskom Holdings State Owned Company
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

2.3.1 Classification

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

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2.4 ABBREVIATIONS

Abbreviation	Description
CIDB	Construction Industry Development Board
COC	Certificate of Compliance
CV	Curriculum Vitae
DOL	Department of Labour
ECA	Electrical Contractor Accreditation
ECB	Electrical Conformance Board
N/A	Not Applicable
PO	Purchase Order
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

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

2.6 PROCESS FOR MONITORING

Any changes to this document will be performed as per Project Engineering Change Management Procedure (240-53114026).

2.7 RELATED/SUPPORTING DOCUMENTS

Any changes to this document will be performed as per Project Engineering Change Management Procedure (240-53114026).

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

To be eligible for evaluation, the tenderer shall meet all the mandatory requirements. The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified in the Scope of Work – Kusile Power Station Scope of Work Replacement of Traditional Lights. 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 80% overall or more to technically qualify for further evaluation.

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

Table 2 - Evaluation Weighting

Technical (100%)	
Comprehension of scope (Method Statements)	30%
Quality Control	10%
Organogram & Staffing	20%
Project Experience	20%
Technical Submissions	20%
TOTAL (100%)	
Overall minimum threshold for qualification (80%)	

3.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

3.3 TET MEMBERS

Table 3: TET Members

TET number	TET Member Name	Designation
TET 1: Electrical Engineering		
TET 2: Electrical Maintenance		
TET 3: Project Management		

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3.4 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 4: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Meet (YES/NO)	Motivation and Comments
i.	Accreditation by the Department of Labour registration (DOL) as Electrical contractor for ALL electrical installations.		
ii.	A proof (Certificate) of Master Installation Electrician (MIE) registered with Department of Labour as a person. (A registration card is not acceptable)		

NB: The name of the MIE must be the same appearing on the Tenderer's company registration with DOL

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 5: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (0,2,4,5)	
				100%		
1.	Professional Services Scope					
	1.1	Comprehension of scope The tenderer to submit typical construction/installation signed method statements for the project scope: a) The Method Statements shall clearly provide details of installation approach to be adopted for the project works. b) The method statements shall clearly indicate a quality assurance process/approach to be undertaken throughout the project activities. c) The methodology shall include: • Removal, Disposal, storing and scraping of Traditional Lights. • Installation of lights and lighting distribution board. • Installation of Emergency lighting. • Quality checks approach	Removal and Installation Method Statement	30%		0 = No Submission 2 = Methodology not detailing enough above the Scope of Work to be executed. 5 = Delivery, Removal and installation methodology described in detail showing full understanding of the Scope of Work.
	1.2	Quality Control Plans for the Project a) Signed Quality Control Plan for a related Scope b) ISO 9001: 2015 Quality Management System Certification	Quality Control Plans	10%		0 = No Submission 2 = Submitted one of the two 5 = Submission of a detailed Quality Control Plan and ISO 9001:2015.

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	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (0,2,4,5)	
1.3	Organogram & Staffing The Tenderer to submit the organisational structure of key personnel of the main Contractor and his Subcontractors: i. In case of an association/joint venture/consortium, it should be indicated how the duties and responsibilities are to be shared. If the tenderer intends on making use of the services of a Subcontractor/s for sections of the scope, the delegation of duties and responsibilities should be clearly indicated. The minimum required key resources shall include the following: i. Electrical Engineer/ Technologist – professionally registered with ECSA. ii. Electricians (4) iii. Master Installation Electrician (1) iv. Artisans (with Trade test certificates)	Project organogram	20%		0 = No Submissions 2 = Only one (1) key Resources Submitted 4 = Submitted but missing one (1) key resource. 5 = All Key resources submitted <i>The tenderer notes the following:</i> <i>An organogram is only considered valid if a CV is provided for all resources.</i> <i>CV's not accompanied by certified ID copies will be rejected.</i> <i>CV's not accompanied by certified Certificates (e.g. ECSA, Trade Test etc.) will be rejected.</i>
1.4	Previous Experience. The Tenderer to demonstrate previous experience on the scope with at least five (5) years of experience. The Tenderer to submit the following: i. Five (5) POs or Project Contracts of the related scope. ii. Five (5) Reference letters / completion certificates <i>NB: All submissions will undergo thorough verification process before acceptance. Any fraudulent submission will be escalated.</i>	- Previous Purchase Orders or contracts of the similar scope. - Verifiable reference letters or completion certificates.	20%		0 = No Submissions 2 = 2 or more submitted PO's have less than 5 years of experience or no reference letters. 4 = 4 submitted POs with five (5) years or more experience accompanied by reference letters or completion certificates. 5 = All five POs with five (5) years or more experience accompanied by all five reference letters or completion certificates.

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	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (0,2,4,5)	
	1.5	Technical Submissions i. Technical datasheets for the light fittings offered. (Proof of lighting Compliance to the SANS 60598-1, SANS 475, and EN 55015). ii. Lab test reports for all LED types to be installed.	Authentic Datasheets from the OEM. Tests Certificates from SANAS approved labs or facilities.	20%		0= No Submission of either two 5 = For both submissions
			TOTAL:	100%		
		QUALIFYING SCORE			80%	

3.6 TET MEMBER RESPONSIBILITIES

Table 6: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	X	X	X
Qualitative Criteria Number	TET 1	TET 2	
1.1	X	X	X
1.2	X	X	X
1.3	X	X	X
1.4	X	X	X
1.5	X	X	X

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 7: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 8: Unacceptable Technical Risks

Risk	Description
1.	▪ Installation of LEDs that are not certified by any National or International Standards (e.g., SABS, SANS, IEC, ANSI, NEMA, IEEE etc.) ▪ No Datasheets for installations ▪ LED Datasheets not tested and approved by SANS or any Electrical Body.

3.7.2 Exceptions / Conditions

Table 9: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	• Any lighting alternatives, as long as it is an LED light source and falls within acceptable standards (Eskom Standards, SABS, SANS, IEC etc.)

Table 10: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	• Total Deviation from the Scope of work • Any installation without SABS or SANS standard approval

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2024	1		First Issue

6. DEVELOPMENT TEAM

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

7. ACKNOWLEDGEMENTS

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