

Title: **Tender Technical Evaluation
Strategy for supply of lighting for
Tutuka Power Station**

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Engineer in Training

**Electrical Engineering
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1. SCOPE

The illumination in many areas of Tutuka Power Station is currently insufficient due to maintenance neglect, resulting in unsafe working conditions for employees. The existing lighting either requires maintenance or replacement. Given the significant number of non-functioning and damaged light fixtures, it is impossible to restore the necessary illumination levels with the stores stock level management for standard maintenance practice. It is therefore recommended, that a one-time bulk purchase of the identified lights is procured to promptly restore lighting to the required levels. All lighting must comply to Eskom Generation Power Station Lighting and Small Power Installation Standard 240-55714363. The selected supplier will be responsible for providing the necessary lighting proposal/design and equipment to rectify the poor lighting conditions within the turbine and boiler house specifically.

Request/Scope of Work:

1. Supply and deliver 4300 units of Industrial LED Bulkhead 50.9W Ex rated for Zone 21/22
 2. Supply and deliver 400 units of Industrial LED Bulkhead 50.9W Ex rated for Zone 2
 3. Supply and deliver 950 units of Industrial LED High bays 400W Non-ex Rated
 4. Supply and deliver 300 units of Industrial LED Bulkhead Gen 2 120W Non-Ex Rated
 5. Supply and deliver 950 units of Industrial LED Bulkhead Gen 2 80W Ex Rated for Zone 2
 6. Supply and deliver 1000 units of Industrial LED High Bay 100W Non-Ex Rated
 7. Supply and deliver 300 units of Industrial LED Floodlights 900W Non-ex rated
 8. Supply and deliver 4000 units of 4ft LED Lamp bi-pin
 9. Supply and deliver 300 units of Industrial LED High Bay 100W Non-Ex Rated
 10. Supply and deliver 300 units of Industrial LED High Bay 100W Ex Rated
 11. Supply and deliver 300 units of Industrial LED Mini Bulkhead 40W
 12. Supply and deliver 300 units of Industrial LED Mini Bulkhead 40W EX TB IIIC t85oc
 13. Supply and deliver 600 units of Industrial LED Bulkhead 50.9W inserts
- All equivalents, if required must be supplied with associated mounts, if design change
 - Supplier to submit verification of warranties for all fittings after delivery and installation
 - Supplier to submit bulk supply management plan for delivery to site, includes lead times, logistics quality control, packaging
 - Supplier to submit previous experience for bulk supply of light fittings as well as quantity managed
14. Below is a recommended list of pre-approved Light fittings by Eskom RTD
- a. B40-INSERT PLATE-LG-50W-LED-LASCON
 - b. MAGLED 44 – 4000K – 50W- MAGNITECH LIGHTING
 - c. WXX432 – 4000K- BACK LIT LED PANEL – 36W- EAGLE LIGHTING
 - d. KRATOS I 595W FLOODLIGHT OPTIC 41807 - GENLUX
 - e. LUXMO II – 215W FLOODLIGHT OPTIC 41807 – GENLUX
 - f. 98W B40 LED - RETROFIT PLATE (OPAQUE DIFFUSER)
 - g. AGL305 HIGH BAY 120W – EAGLE LIGHTING
 - h. 100W - HLED0100 – LED HIGH BAY - MAGNITECH
 - i. 400W- HLED0400 – LED HIGH BAY – MAGNITECH

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- j. KRATOS MK II LED FLOOD LIGHT-GENLUX
- k. MAGLED MINI 40W

If the supplier's offering is one of the pre-approved lights listing, the suppliers qualitative evaluation will be fully compliant. A sample must still be submitted after successful evaluation to confirm testing unless manufacturer certificate is provided.

Appendix A objectives

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.

1.1 APPLICABILITY

This document applies to Tutuka Power Station

1.2 NORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed below.

1.2.1 Normative

- [1] ISO 9001 Quality Management Systems
- [2] 240-48929482: Tender Technical Evaluation Procedure
- [3] SANS 10142-1 The wiring of premises Part 1: Low-voltage installations
- [4] 240-53716726: Technical Scoring Form
- [5] 240-53716712: Technical Evaluation Results

1.2.2 Informative

- [1] SANS 10142-1 The wiring of premises Part 1: Low-voltage installations
- [2] 240-55714363 Eskom Generation Power Station Lighting and Small Power Installation Standard
- [3] Scope of Work: Supply and Install lighting across the station (Unit 1 -6 boiler house and turbine house)

1.3 DEFINITIONS

- a. **Confidential:** the classification given to information that may be used by malicious/opposing/hostile elements to harm the objectives and functions of Eskom Holdings Limited.
- b. **Works:** Refers to the Works information for the Outside Plant Electrical Maintenance Contract at Tutuka Power Station
- c. **Contractor:** Refers to the entity/party which has submitted information for the Tender Requirements for the Works

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1.4 CLASSIFICATION

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

1.5 ABBREVIATIONS

Abbreviation	Description
A	Electrical Current Amperes
AC	Alternating Current
CAD	Computer-Aided Design
CIDB	Construction Industry Development Board
CT	Current Transformer
CV	Curriculum Vitae
DB	Distribution Board
DC	Direct Current
DOL	Department Of Labour
ECSA	Engineering Counsel of South Africa
EMD	Electrical Maintenance Department
GO	General Overhaul
HZ	Hertz
ISO	Internal Organization For Standard
KW	Kilowatts
LV	Low Voltage,
m	Meters
MTBF	Mean Time Between Failures
N/A	Not Applicable
OEM	Original Equipment Manufacturer
OHS	Occupational Health And Safety
QCP	Quality Control Plan
RFP	Request For Proposal
RFQ	Request For Quotation
SANAS	South African National Accreditation System
SANS	South African National Standard
SHE	Safety, Health & Environmental
SOW	Scope Of Work
TET	Technical Evaluation Team
V	Volts

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1.6 ROLES AND RESPONSIBILITIES

as per 240-48929482: Tender Technical Evaluation Procedure

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	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

1.7 PROCESS FOR MONITORING

as per 240-48929482: Tender Technical Evaluation Procedure

1.8 RELATED/SUPPORTING DOCUMENTS

as per 240-48929482: Tender Technical Evaluation Procedure

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2. TENDER TECHNICAL EVALUATION STRATEGY

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications or ability to perform the work. Tenderers need to have a minimum weighted score of 70% overall or more to technically qualify for further evaluation.

2.1 TECHNICAL EVALUATION THRESHOLD

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

Table 1 Qualitative Evaluation Scoring

Score	(%)	Definition
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

2.2 TET MEMBERS

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1		Electrical Engineer
TET 2		Engineer in Training
TET 3		Electrical Senior Technician
TET 4		Electrical Senior Technician

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2.3 MANADATORY TECHNICAL EVALUATION CRITERIA

All TET members as defined in the Tender Technical Evaluation Strategy (and specifically TET member responsibilities) shall independently evaluate each tender in terms of compliance to the defined Mandatory Evaluation Criteria. Each TET member shall provide an individual scoring form on the compliance / non-compliance of all tenderers' responses to the Mandatory Evaluation Criteria. Each TET member shall provide clear justification(s) for each Mandatory Criteria evaluated as non-compliant ('NO').

This part of the evaluation starts when submissions are opened and assessed for the first time. The Eskom evaluation team will go through the details of the returnable submissions that are required and will be ensured that all the mandatory requirements are met. Submissions that receive a 'NO' for any of these requirements will not be able to proceed to the Qualitative Evaluation Criteria stage and therefore will fail the technical evaluation.

In the case where no tenderer meets all Mandatory Evaluation Criteria this shall be formally escalated to the Commercial Representative who shall guide the subsequent process. All meeting minutes shall be recorded and distributed to the Commercial Representative and included in the Tender Technical Evaluation Report.

Mandatory criteria 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 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.

Table 3: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	N/A	N/A	N/A

2.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3 defines all Qualitative Evaluation Criteria to be used as well as reference to specification and specific weighting.

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluation Scoring Breakdown			
						0	2	4	5
1.	Company Experience (Capability)			20%	-	-	-	-	-
	1.1	Experience with Similar Installations/design and Supply with list of previous work experience.	<ul style="list-style-type: none"> As per 240-55714363 Eskom Generation standard Supply reference of pervious Purchase Orders and/or work completion letters/certificates 		50%	No information	1 References submitted for verification	2 References submitted for verification	More than 2 References submitted for verification
	1.2	Orders and or deliveries greater than 1000 units (light fittings)	<ul style="list-style-type: none"> As per 240-55714363 Eskom Generation standard Delivery note and/or delivery verification of lights submitted for large quantity 		50%	No information			Documents submitted for supply
2.	Lighting Equipment Documentation			40%	-	-	-	-	-
	2.1	Technical datasheet for lighting offered	<ul style="list-style-type: none"> As per 240-55714363 Eskom Generation standard List of lighting with associated simulation files, documentation, 		70%	No Proposal	Lights offered with Schedule B but no sample	Lights offered with Schedule B complete and	Lights offered are approved and tested by Eskom RTD

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Revision: **2**

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	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluation Scoring Breakdown			
						0	2	4	5
			datasheets and samples submitted for testing (if not tested already by Eskom RTD)					Samples for RTD testing	(Report Attached)
	2.2	Quantity of lights as per requirement	Proposed quantity from supplier		30%	No Proposal	Quantity does not meet requirement	Quantity is as available but not as per specification	Quantity is as per requirement
3.	Lead Time and Delivery			20%	-	-	-	-	-
	3.1	Lead times provided for equipment delivery to site	Lead times		70%	No Proposal	Lead time >90 days	Lead time >60 days	Lead time >30 days
	3.2	Provide Detailed project delivery methodology and planning for bulk supply and quality control.	Supplier's ability to manage the logistics, including packaging, shipping, and handling of bulk orders		30%	No proposal	Information submitted requires clarification	High level methodology	Full Logistical plan and quality control plan
4.	Warranty			20%					
	4.1	Supplier's Warranty for goods delivered and after installation	<ul style="list-style-type: none"> As per 240-55714363 Eskom Generation standard Warranty 		100%	No Proposal	No information	Warranty indicated by clarification required	Detailed information available
				TOTAL:					
				100					

2.5 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

2.5.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Contractor appoints sub-contractor to perform scope of the Works, in which sub-contractor complies to Mandatory Criteria

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Schedule B is not completed as per Annexure I for new light fitting offerings As per 240-55714363 Eskom Generation standard

2.5.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	No sample submitted but information for equivalent is adequate enough
2.	No execution plan or methodology submitted

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	No datasheets or files for lighting equivalents

3. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
	Electrical Engineer	
	Engineer in Training	
	Electrical Senior Technician	
	Electrical Senior Technician	

4. REVISIONS

Date	Rev.	Compiler	Remarks
August 2024	2		

5. DEVELOPMENT TEAM

The TET members as listed in Table 1 were involved in the development of this document.

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