Eskom	**Scope of Work**	Matimba Power Station

Title: **Supply and delivery of lighting of spares to Matimba Power Station**

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1. Introduction

This document describes the detail of the applicable requirements, scope of work, specifications, terms & conditions as well as the criteria to qualify for the tender.

Eskom, Matimba Power Station Management has decided to outsource the supply and delivery of Lighting spares Scope of Work to an experienced, well-established, and qualified Service Provider.

2. Supporting Clauses

2.1 Scope

This document sets out the detailed User Scope of Work requirements necessary for the supply and delivery of Lighting Spares for Matimba Maintenance Services.

2.1.1 Purpose

The purpose of this document is to define a User Scope of Work requirement based on which a supply contract will be established between the Employer and the supplier.

Matimba Power Station is expected to perform at EAF>85, PCLF<8 and UCLF<5, and the supplied material must support this requirement.

It is therefore imperative that the successful and suitably qualified supplier aligns their company fully to these specified requirements of scope of work.

2.1.2 Applicability

This document shall apply to Matimba Power Station.

2.1.3 Effective date

The effective date of this document is as per the date and signature of the authorizer, as indicated on the cover page of this document.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

Prospective suppliers are responsible for obtaining the latest copies of the South African National Standards (SANS) and international standards referred to in this document. Copies of the latest revision of Eskom documents will be supplied by the purchaser and will form part of the enquiry documentation.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

[2] 32 – 1034: Procurement and Supply Chain Management Procedure

[3] 32- Preferential Procurement Policy Framework Act 5 of 2000

[4] SANS 475 Luminaires for interior lighting, street lighting and flooding performance requirements.

[5] SANS 1041 Tubular fluorescent lamps for service.

[6] SANS 1088 Luminaire entries and spigots.

[7] SANS 1091 National colour standard.

[8] SANS 10098-1 Public lighting – Part 1: Artificial lighting of interiors.

[9] SANS 10098-2 Public lighting – Part 2: The lighting of certain specific areas of streets and highways.

[10] SANS 10114-1 Interior lighting Part 1 Artificial lighting of interiors.

[11] SANS 10114-2 Interior lighting Part 2 Emergency lighting.

[12] SANS 10389-1 to 3 Exterior lighting.

[13] SANS 62031 LED modules for general lighting- safety specifications.

[14] SANS 62504 General lighting – Lighting emitting diode (LED) products and related equipment – Terms and Definitions.

[15] SANS 62560 Self-ballasted LED-lamps for general lighting services by > 50V – Safety specification.

[16] SANS 62612 Self-ballasted LED lamps for general lighting services with supply voltages . 50 V – Performance requirements.

[17] SANS VC 8039 Glow starters for fluorescent lamps.

[18] SANS VC 9091 Single-capped fluorescent lamps.

[19] IEC 61167 Metal Halide lamps.

[20] IEC-EN 62471 Photo biological Safety of Lamps and Lamp Systems for LED’s.

[21] IES LM80 Approved Method: Measuring lumen maintenance of LED light sources.

[22] 240-126210656 LED Street Lighting for Eskom Properties.

2.2.2 Informative

[1]. 240-62072907: Eskom Delegation of Authority Policy.

[2]. 240-165040111: Supplier Terms Policy

[3]. 32-1033: Procurement and Supply chain Management Policy

[4]. 240-141007195: Electronic Signature usage Policy

[5]. 240-156280553: Procedure for signing documentation electronically using the Eskom electronic signing system.

[6]. IEC 62493 Assessment of lighting equipment related to human exposure to electromagnetic fields.

2.3 Definitions

2.3.1. Ad hoc: A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.

2.3.2. *Contractor:* Partnership agreements and service provider contracted for supplying specific service/goods to Eskom Generation Matimba Power Station.

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

2.3.4. Employer: Eskom or Eskom Generation, Matimba Power Station.

2.3.5. Parties: The Employer and the Contractor.

2.3.6. Supply Manager: The Employer's representative in regard with the supply contract agreement.

2.3.7. Task Order: The Service Manager's instruction to perform a task. SAP PM orders will also be used as task orders.

2.4 Abbreviations

Abbreviation	Description
CFT	Cross Functional Team
EAF	Energy Availability Factor
LED	Lighting Emitting Diode
NEC3	New Engineering Contract
NECSC	Supply Contract Document
OEM	Original Equipment Manufacturer
PCLF	Planned Capability Load Factor
PCM	Process Control Manual.
PDF	Portable Document Format
QCP	Quality Control Plan
SAP	Systems, Applications Products.
SME	Subject Matter Expect
SoW	Scope of Work
TET	Technical Evaluation Team
UCLF	Unplanned Capability Load factor

URS	User Requirement Specification.
V	Volt

2.5 Roles and Responsibilities

2.5.1 *Supply Manager*

1. Co-ordinating and manage contract budget and expenses.
2. Ensures that the service provider operates within the budget.
3. Communicate technical interface between Eskom and the service provider.
4. Review, verify and approve receipt of services or deliverables from the goods supplier.
5. Manages and maintains records and correspondence between the employer and service provider.
6. Ensures that the service provider complies with the terms and conditions of the contract.
7. Keeps the records of the contract for history and audit purposes.

2.5.2 *Contractor*

1. Supply spares to the *Employer* in accordance with Matimba Power Station procurement process as per spares SoW.
2. Ensures that quality of spares delivered in Process for Monitoring in accordance with the Scope of Work as stipulated within Matimba Power Station spares SoW.
3. Ensures that all spares are accompanied by their related technical specification or datasheet as per the SoW.

2.6 Process of Monitoring

On delivery of spares to Matimba Power station main stores, items will be subjected to quality control (QC) by the End User to ensure that description of delivered items complies with that of the order.

2.7 Related/Supporting Documents

[1]. NEC 3 Supply Contract.

3. Document Content

3.1 General

3.1.1 Adherence to Eskom General Policies & Standards

The Supplier shall ensure that their Employees delivering spares to site comply with Eskom's policies and site regulations and Eskom's Life Saving Rules.

3.1.2 Quality Standard

The Supplier shall ensure that the quality of spares delivered to Matimba is as per the ISO 9001 Standard to support Matimba's objective of improving performance.

3.1.3 Document Control

All contractual communication between the *Employer* and *Supplier* shall be in written format accompanied by an official letterhead and signed by the authorised *Parties*.

All attached documentation shall be in the format of Microsoft Word/ Excel and/ or Power Point.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

3.1.4 Contractual Meetings

a) ADHOC Meetings can be scheduled and agreed upon.

3.1.5 Correspondence

All verbal and non – verbal communication between the *Employer* and *Supplier* shall be communicated in an electronic format which can be read or copied.

3.1.6 Task Order

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work Information, without the approval of the *Employer*.

The *Contractor* shall by no means carry out any maintenance work in terms of the Scope of Work Information, without the approval an official SAP Task Order Number being supplied by the *Employer* to the *Contractor.*

3.2 Scope of Work

Table 1: List of Lighting

Material	Material Description	Unit of Measure	Est. Qty 5Yrs
722768	LAMP, LED PANEL; DIMENSION: L 1195 X W 595 X H 36 MM (1200X600); POWER 60W; COLOR TEMPERATURE: 4000K; CURRENT: 1000MA; POTENTIAL; 230 V; APPLICATION: EMERGENCY	EA	1800
754313	LAMP, LED PANEL; DIMENSION: L 1195 X W 595 X D 32 MM (1200X600); POWER 60W; COLOR TEMPERATURE: 4000K; CURRENT: 850MA; POTENTIAL; 200-240 VAC; APPLICATION: INTERIOR	EA	2500
755388	LAMP, LED; DIMENSION; L 1195 X W 240 X H 80 MM; POWER: 136W; COLOR TEMPERATURE: 4000K; CURRENT: 500 MA; POETENTIAL: 230V; SPECIFICATION: A-BAY-IN136W-LED; APPLICATION: EMERGENCY.	EA	1800
755928	LAMP, LED; DIMENSION; L 1195 X W 240 X H 80 MM; POWER: 136W; COLOR TEMPERATURE: 4000K; CURRENT: 500 MA; POETENTIAL: 230V; SPECIFICATION: A-BAY-IN136W-LED; APPLICATION: INTERIOR.	EA	2500
755391	LAMP, DOME LED; DIMENSION; D 230 X H 170 MM; POWER: 10W; COLOR TEMPERATURE: 4000K; CURRENT: 350 MA; POETENTIAL: 230V;	EA	2500
755392	LAMP, DOME LED; DIMENSION; D 230 X H 170 MM; POWER: 10W; COLOR TEMPERATURE: 4000K; CURRENT: 350 MA; POETENTIAL: 230V; APPLICATION: EMERGENCY	EA	1800
755389	B40 EXTERNAL RETROFIT-PLATE-LG67W-LED-EMG; LOW GLARE 4000K; IP 65; APPLICATION: EMERGENCY	EA	1800
751946	B40-PLATE-LG-67W-LED, CRI>80, COLOUR TEMPERATURE: 4000K	EA	2500
722127	LAMP, LED; DIMENSION: 700 X 524 X 400 MM; POWER: 640 W; COLOR TEMPERATURE: 4000K	EA	2500
755390	LAMP, C10 FITT LED; DIMENSION; L 1200 X H 100 X W 100 MM; POWER: 55W; COLOR TEMPERATURE: 4000K; CURRENT: 400 MA; POETENTIAL: 230V; LENS TYPE: WEATHERPROOF APPLICATION: EMERGENCY; LUMINOUS FLUX: 7990	EA	1800

Material	Material Description	Unit of Measure	Est. Qty 5Yrs
722769	LAMP, LED; DIMENSION; L 1200 X H 100 X W 100 MM; POWER: 55W; COLOR TEMPERATURE: 4000K; CURRENT: 400 MA; POETENTIAL: 230V; LENS TYPE: WEATHERPROOF; LUMINOUS FLUX: 7990 ; APPLICATION: INTERIOR.	EA	2500
755402	LAMP, LED; DIMENSION: L 1270 X W 100 X H 100 MM; POWER: 43W; COLOUR TEMPERATURE: 4000K; LUMEN: 7986; CURRENT: 325MA; POENTIAL: 230V; APPLICATION: EMERGENCY	EA	1800
744478	FLOODLIGHT, ELECTRIC: SHAPE: RECTANGULAR; MOUNT: STIRRUP BRACKET, HOLES PROVIDED; MATERIAL: ALUMINIUM; LENS COLOR: CLEAR; REFLECTOR SHAPE: LED; POWER: 600 W; POTENTIAL: 90 - 277 VAC; TYPE: SPECTRALED LED; DIMENSIONS: LG 485 X HT 340 X THK 324 MM; SUPPL P/N: FLED-2600-5-12-B	EA	1800
681970	FITTING: TYPE: BULKHEAD; SIZE: WD 295 X LG 400 X HT 211 MM; SPECIFICATION: SANS/IEC 60598/60079-15/60079-31; REFERENCE NO: MAG40; WITH POLYCARBONATE LENS; FOR DUSTY & DIRTY ENVIRONMENT; SECURITY LIGHTING; ZONE 21; 22 & 2; IP66	EA	1800
609763	LIGHT: TYPE: LED; POWER: 75 W; POTENTIAL: 110 VAC; SURGE PROTECTION: 20KV/20KA; CURRENT: 700MA; CORRELATED COLOUR TEMPERATURE: (4000K); MOUNTING: POLE MOUNTING; PROTECTOR: HIGH-IMPACT ACRYLIC (1K10); EXPLOSION PROOF CLASSIFICATION: ZONE 22	EA	1800
708255	LIGHT: TYPE: ZONE 2 LED; POWER: 98 W; POTENTIAL: 100-200 VAC; REFERENCE NO: NLED-EX 4FT 500MA 98W; COLOUR TEMP: 4000K;CRI:>RA80; IP68; AMBIENT TEMP: -20 DEG C TO 40 DEG C; POWER FACTOR: >0.9; RATED LIFETIME: 50 000HR; INSTALLATION: WALL; CEILING; BRACKET AND POLE MOUNTING; DIMENSIONS 1.704 M X 176 MM X 145 MM;	EA	1800
725301	LAMP, FLUORESCENT: TYPE: LED; POWER: 90 W; POTENTIAL: 220-240 VAC; BASE: JBLS; COLOR: 4000K; LENGTH: 1.5 M; CLASSIFICATION: NON-HAZARDOUS; SPECIFICATION: IEC 60598; REFERENCE NO: J70073; JBLS 1500-200 LED 90W 350MA/SSC/IP66	EA	2500
15093	LAMP, HIGH INTENSITY DISCHARGE: TYPE: HIGH PRESSURE SODIUM; POTENTIAL: 220-250 V; POWER: 150 W; BASE: E40; COLOR: CLEAR; SUPPL P/N: SON-T; REFERENCE NO: NAV-T; TUBULAR; 212MM LENGTH; BURNING POSITION UNIVERSAL	EA	250
728648	FLOODLIGHT, LED ELECTRIC: SHAPE: PORTABLE; MOUNT: ADJUSTABLE STAND; COLOR TEMPERATURE:4000K; REFLECTOR SHAPE: 30 DEGREE BEAM ANGLE; POWER: 400 W; POTENTIAL: 220-240 VAC; TYPE: HIGH MAST LIGHT; DIMENSIONS: WD 105 X LG 410 X HT 92 MM; REFERENCE NO: F80250; NFL-LED FLOOD	EA	1800

Material	Material Description	Unit of Measure	Est. Qty 5Yrs
219018	LAMP, FLUORESCENT: TYPE: ENERGY SAVER; POWER: 14 W; POTENTIAL: 220-240 V; BASE: BC; COLOR: 4000k; LENGTH: 113.5 MM	EA	250
216936	LAMP, FLUORESCENT: TYPE: ENERGY SAVER; POWER: 26 W; POTENTIAL: 220 V; BASE: ES; COLOR: 4000k; LENGTH: 17 MM	EA	250
88464	LIGHT: TYPE: LED; POWER: 4.5 W; POTENTIAL: 220-240 V; COLOR: DAYLIGHT; REFERENCE NO: LVPAR165036-4.5; BULB BASE: GU10; COLOR TEMPERATURE: 4000 K; LUMENS: 430 IM; VOLTAGE: 230 V; WATTAGE: 4.5 W; BULB SHAPE: PAR16; BEAM ANGLE: 36 DEGREES.	EA	150
220724	LAMP, FLUORESCENT: POWER: 20 W; POTENTIAL: 220 VAC; BASE: 2D BI PIN; COLOR TEMPERATURE: 4000K; LENGTH: 600 MM; BULB: F20CW; REFERENCE NO: L20W/20S; 8K, 2 FEET TUBE	EA	150
642468	LAMP, FLUORESCENT: TYPE: NON-SPARKING; POWER: 18 W; POTENTIAL: 220-240 V; BASE: G13; LENGTH: 1.2 M; BULB: TUBE DOUBLE-ENDED; T8; COLOUR TEMPERATURE: 4000K; LUMEN OUTPUT: 1800LM; LUMEN PER WATT: 100LM/W; DIAMETER: 28MM; LAMPA LIFE HOURS: 15000HRS; CRI:>80; BEAM ANGLE: >160 DEG; MATERIAL: GLASS; BASE: G13;	EA	1000
559636	LAMP, FLUORESCENT: TYPE: BULKHEAD; POWER: 42 W; BASE: GX24Q-4; COLOR: 4000K; LENGTH: 152 MM; CLASSIFICATION: EN12464-1; MANUF P/N: 4050300425627; REFERENCE NO: T/E 42W/840 PLUS; BOX CONTAINS 10 (PCE); BRAND NAME: OSRAM	EA	100
147164	BALLAST, LAMP: TYPE: HPS VAPOUR; POTENTIAL: 230 VAC; LAMP ACCOMMODATION QUANTITY: 1; POWER: 150 W; BALLAST STYLE: RAPID START; LENGTH: 121 MM; HEIGHT: 76 MM; WIDTH: 61 MM; SUPPL P/N: HS150H; STYLE NORMAL POWER FACTOR, LPF TEMPERATURE +0,85PF, 50 HZ, 20 MFD CAPACITY, NO OTHER SIZE WILL BE ACCEPTED	EA	50
147269	HOLDER, LAMP: TYPE: RECEPTACLE; LAMP BASE: SCREW IN; POWER: 660 W; MATERIAL: BAKELITE; APPLICATION: HAZ LOC H2 PLANT; SPECIFICATION: NEC/CEC C22.2 NO 137; REFERENCE NO: EV60M3; RECEPTACLE FOR LAMPS; COLOUR: BLACK; 1 X BRASS CONNECTION; 1 X NICKEL CONNECTION; 600VOLT, SIZE: 55MM LONG X 49MM O/DIAMETER; USED FOR ES BASE TYPE LAMPS; CROUS HINDS; SIZE: GOLIATH EDISON SCREW	EA	30
755402	LAMP, LED; DIMENSION: L 1270 X W 100 X H 100 MM; POWER: 43W; COLOUR TEMPERATURE: 4000K; LUMEN: 7986; CURRENT: 325MA; POENTIAL: 230V; APPLICATION: EMERGENCY	EA	1800

4. AUTHORISATION

This document has been seen and accepted by:

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5. REVISION

Name	Rev.	Compiler	Remarks
November 2024	0.1	Wandile Mjuqu	First Draft
January 2025	1	Wandile Mjuqu	Final Draft

6. DEVELOPMENT TEAM

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

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7. ACKNOWLEDGEMENTS

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