Eskom	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
		Effective Date	October 2024		
		Review Date	October 2027		

PLANT AREA: Matla Power Station

TITLE: *Installation of Matla Power Station Perimeter Fencing*

REF. MEA- 07019	Reference Rev No:0	MULTIDISCIPLINARY: No	Plant Level: All

COMPILED BY	*Name: Kash Sohawan* *System Engineer*	Signature	Date 10/06/2025
APPROVED	*Name: Gavin Phelelo* *Auxiliary Manager*	Signature	Date 10/06/2025
APPROVED	*Name: Lindokuhle Ngobese* *Group Manager*	Signature	Date 10/06/2025
REVIEWED	*Name: Dorah Mkhonto* Johan Laurens *Quality Manager*	Signature	Date 12/06/2025
REVIEWED	*Name: Lufuno Tshidzumba* / Mosa Chipa *Environmental Manager*	Signature	Date 18/06/2025
REVIEWED	*Name: Mosotho Phaala* *Acting Security Manager*	Signature AMPhaala	Date 18/06/2025

NB: Do not tamper with the template.

GENERAL

- Data books, reviews, reports, and diagrams/drawings shall be submitted to Engineering after the completion of the work Engineering to forward the data books to Quality Department (Document Control)
- All QCP's to be submitted to Engineering and Quality for approval prior to outage/project or maintenance work commencement

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1 1	Occupational Health and Safety	• Health and safety file should be approved by Safety risk management department prior to any work commences on site • All work is to be done in accordance with OHS Act 85 of 1993, Matla plant procedures and Plant Safety Regulations (240-150642762) • Matla power station SHEQ induction must be done before access to site can be granted • The contractor should ensure that all employees have acquired the required competency for the task they are performing • The contractor to ensure compliance to updated legal requirements and other requirements • **BUY QUIET** All stakeholders are encouraged to purchase or rent quieter machinery, equipment, and tools to reduce worker noise exposure, contribute towards compliance	Eskom to witness	Contractor

		to OHSA noise exposure limits and ultimately reduce the risk of noise induced hearing loss		
1 2	Environmental Management	• All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental **AUTHORISATION** before commencement of work • The contractor shall comply with all applicable legal and other requirements • The polluter pays principle will be applied • The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer OMOP 4090 and 4402) • The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C OMOP 4402) of designated area • EMS file based on ISO14001 will be required	Eskom to witness	Contractor
1 3	Quality Management	• The contractor/executioner of work will be responsible for drawing up all QCP documentation and this must be approved by engineering and authorised by the Quality Department before commencing with the work • Contractors/executioner to adhere to QM 58 and OMOP4497 requirements • Number of NCR issued can affect your next tendering process • The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA	Hold point	Contractor

		• No procuring of outage items without the approval of scopes by quality • All outage scopes creep and scopes addition should be approved by quality • No contractor should be in the possession of scopes for execution without the scopes approved by quality • The contractor is subjected to quality auditing at any point in time during execution of scope		
1 4	Inputs from other departments			
1 5	Commissioning reference			

2	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
This scope provides the requirements for work to be done for the removal of the existing perimeter fencing for Matla Power Station and the installation of perimeter fencing for the power station The scope includes the specifications and standards to be followed and installation methods. The contractor will be responsible for the removal and disposal of existing fencing and installation of the new fencing				
2.0	**Fencing Classifications** As per Eskom's security standard for High Security (240- 76368574), Matla Power Station will require a Category Two fence, comprising of a steel wire (4,0 mm thick) with 76,2 mm x 12,7 mm apertures, with the supplier being able to offer design alternatives that offering higher levels of resistance to bridging of the fence		Hold	Engineer

	A design proposal for the fence is to be submitted to the Auxiliary Engineer for approval prior to the *commencement* of the manufacturing of the product **Environmental Classification** The environmental classification for fencing at Matla Power Station falls under a high Eskom Pollution Level, which falls under the corrosive categories (ISO 9223) of C4 to C5 for industrial inland environments The coating proposal for this classification is a duplex coating (non- ferrous metallic coating with organic moisture ingress inhibitor coating)			
2.1	**Matla Power Station Perimeter Fencing**	**Matla Power Station Perimeter Fencing**	Hold/ Verify	Contractor

	Matla Power Station The station has four parts of fencing that forms the security perimeter These include two electrified fences, and two non- electric fences, as can be seen below in Figure 1 For this scope, the perimeter fence referenced shall be to the internal and external perimeter fences, as outlined in Figure 1	• Removal of fencing= 7 0 km x 2 = 14 0 km of removal and disposal of material • Station Perimeter= 7 0 km x 2 = 14 0 km of new fencing • Supply and installation of the following gates, as specified in Section 2 1 of the scope o 6 x Double Swing Gates o 7 x Single Swing Gates o 2 x Sliding Gates o 6 x Pedestrian Gates		

2.3	**Perimeter Fence Civil Work** Site Conditions Designs must be applicable to meet specific site conditions These include • Site layout • Soil conditions • Drainage • Piping • Etc The requirements shall be stipulated during the clarification meeting for the site Some requirements	**Concrete** • Designs to align with soil conditions • Concrete work to be in accordance with SANS 1200: Standardized Specification for Civil Engineering Construction • Concrete strength to be 25MPa, except for anti- tunneling • Compaction of the bottom of the fence post shall be 93% Mod. AASHTO • No concrete is to be poured where the air temperature will drop below 4°C in 8 hours after pouring of concrete, unless a suitable approved additive is added to the concrete mix	Hold/ Verify	Contractor

	might be excluded from the suppliers' scope of work and will become the responsibility of Eskom The contractor is to meet the stipulated requirements for the following • Concrete • Stepping • Anti- tunneling systems • Concrete Plinths	**Stepping** • *Maximum of 150 mm per panel* • Tops of panels to be horizontal (Sloping panels will be allowed in unique circumstances and must be agreed to with an Eskom representative) **Anti- Tunneling Systems** • 200 mm (wide) x 600 mm (deep) x concrete 15 MPa between posts		

		• The mesh must be anchored into/ onto the center of the anti- tunneling **Concrete Plinths** 250 x 250 x 500 mm Concrete plinths of 25MPa strength are to be cast in situ for each of the fencing post base plates to be anchored to. Figure 2, found at the end of the scope of work, details a typical long section along the perimeter fence line		

2.5	**Installation and Inspection** Installation • Procedures should be covered in the Quality Management System • Detailed installation documentation should be available • Installers must be declared competent and be accredited by the supplier. Relevant details of the installers must be available This includes, training received, level of expertise and project involvement		Hold/ Verify	Contractor

	Inspection • Final inspections must be done by both Eskom and the Supplier Standardized check sheets shall be documented in the Suppliers' Quality Management System A final certificate of compliance (indicating the warrantee) shall be issued to Eskom by the Supplier			

BILL OF MATERIAL

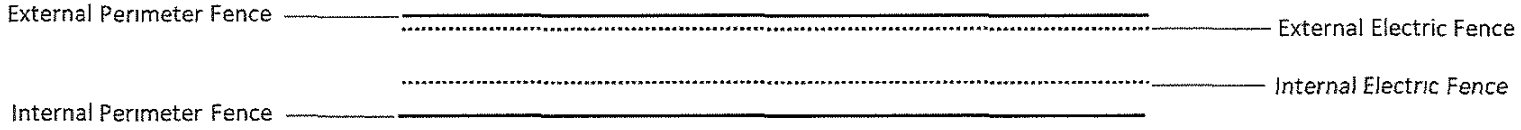
	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
	Comprehensive BOQ will be completed by the QS for this project				

SCOPE COMPILATION REFERENCES				
SOURCE & Ref No	**Yes**	**No**	**N/A**	**Comments**
Previous outage service reports		X		
Return to service data packages		X		
Maintenance Strategy with Rev number		X		
SAP defects (attach list as appendix)		X		
GHRMS (STEP) reports (Generation Heat Rate Management System)		X		
Online Condition Monitoring		X		
Pre-outage performance test results		X		
Post outage performance test results		X		
GPSS/ Plant Performance data on UCLF incurred		X		
OMS / IIRMS recommendations (Audits Reports)		X		
Risk controls (IRM system)		X		
Previous audits and reviews (e.g ERAP)		X		
Engineering Change Requests (Projects)		X		
LOPP strategy reports		X		

URS		X		
Philosophy (Outage)		X		
Condition Monitoring Report		X		
VA/PHD Viewer trends		X		
Corrective Actions	X			
CARAB reports		X		
Statutory Requirements		X		
Grid code requirements		X		
Waivers and Exemptions		X		
Calibration requirements		X		
Previous Outage SOW variations		X		
Post Mortems Actions from previous outages		X		
Pre–Outage plant walks		X		
Risk based inspection (RBI) report		X		
Simulation, TOIs, OON, SI		X		

COMMENTS

ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc



MATLA POWER STATION

Figure 1: Layout of Perimeter and Electric Fencing

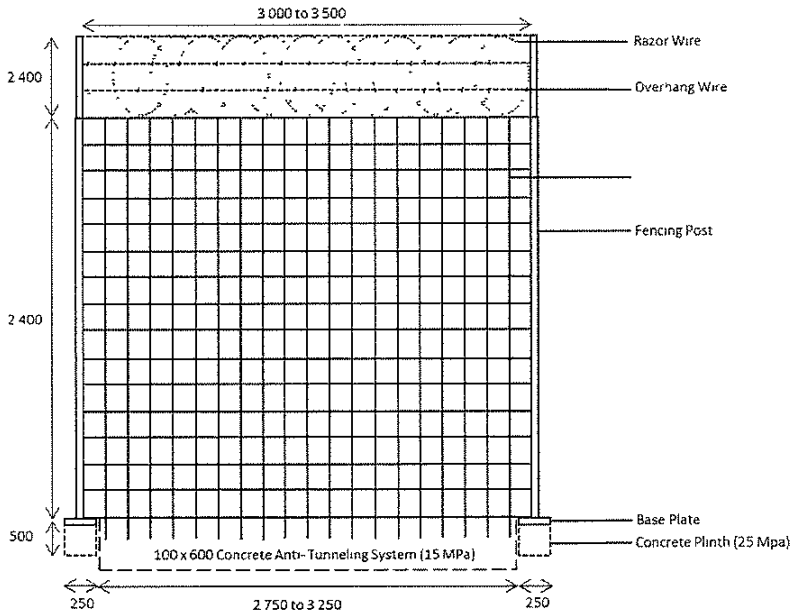


Figure 2: Cross Section of Fencing Layout