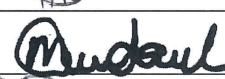
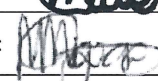


	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
		Effective Date	October 2024		
		Review Date	October 2027		

PLANT AREA: Matla Power Station					
TITLE: Scope of Work for Dect Mobile Systems Replacement ECN 27551318					
REF: MEC-05970		Reference Rev No:0		MULTIDISCIPLINARY: Yes	
Plant Level: All					
COMPILED BY	Name: Vusmuzi Ntuli Systems Engineer/End User	Signature:		Date: 18/06/2026	
APPROVED	Name: Katlego Mangope Line Manager	Signature:		Date: 18/06/2026	
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature:		Date: 25/06/2026	
REVIEWED	Name: Baring Montshioagae Quality Department	Signature:		Date: 23.06.2026	
REVIEWED	Name: Lynton Mudau Occupational Health and Safety	Signature:		Date: 18/06/2026	
REVIEWED	Name: Mahlatse Themane Environmental Department	Signature:		Date: 18/06/2026	
ACCEPTED	Name: Outage Manager/Maintenance manager	Signature:		Date:	

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 1 of 35
-------------------------	---------------------	------------------	--------------

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

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.	Eskom to witness.	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 2 of 35
--------------------------------	---------------------	------------------	--------------

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

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
		BUY QUIET: All stakeholders are encouraged to purchase or rent quieter machinery, equipment, and tools to reduce worker noise exposure, contribute towards compliance 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

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 3 of 35
--------------------------------	---------------------	------------------	--------------

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

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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. - 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	Hold point	Contractor
1.4	Inputs from other departments			

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 4 of 35
--------------------------------	---------------------	------------------	--------------

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

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.5	Commissioning reference			

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 5 of 35
--------------------------------	---------------------	------------------	--------------

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

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.	Overall, Scope: Design, Supply, Install, and Commission - The Contractor shall design, procure, supply, deliver to site, install, test, commission, and hand over a fully functional Private 5G mobile voice communication system at Matla Power Station. - The system shall replace the existing end-of-life NEC/Philips iS3000 DECT system and provide a minimum equivalent operational capability as defined in the ROC. - The Contractor shall be the Design Authority for all detailed engineering design. Eskom C&I Engineering will review and approve all design submissions prior to implementation. - The solution shall be technology-outcome based. The Contractor shall propose the most technically appropriate Private 5G solution to meet the requirements defined herein.		HOLD POINT- Eskom Matla C&I Engineering must approve detail design before scope execution	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 6 of 35
--------------------------------	---------------------	------------------	--------------

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

2.	Site Survey and RF Propagation Study The Contractor shall conduct a full site audit of Matla Power Station to determine RF propagation characteristics, coverage challenges, and base station placement requirements. The site survey shall cover all operational areas of the station as a minimum, including but not limited to: • Main Control Room (MCR) • North and South Satellite Control Rooms • Turbine Hall - all levels and platforms • Boiler area - all levels, platforms, and burner decks		HOLD POINT Eskom Matla C&I Engineering	Contractor
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 7 of 35
--------------------------------	---------------------	------------------	--------------

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

	• Coal Bunker floor and coal handling areas • Coal Staithe and conveyor areas • Ash handling plant • Water Treatment Plant • Workshops, stores, and maintenance areas • Administration block and gatehouse • Underground cable tunnels • Unit 1-6 • Outside Plant Area			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 8 of 35
--------------------------------	---------------------	------------------	--------------

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

	• Slurry Plant (Plant, Offices, Equipment Rooms, Control Room) • MainGate (Security Offices) • Fire Station & Technical Training • Ash Resources • Coal Plant • Admin Building • Site Canteen Building • Engineering Offices • Rotek Building & ABB Offices			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 9 of 35
--------------------------------	---------------------	------------------	--------------

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

• Simulator Building • Strategic Stores 1 • Contractor Yard The Matla Power Station drawing layout of the site is included in the appendix The site survey shall consider the following site-specific challenges: heavy steel structural members and boiler frameworks, thick concrete walls and floors, electromagnetic interference from transformers, motor drives, switchgear, and MV/HV equipment. The RF propagation study shall include coverage simulation maps, proposed base station locations with justification, and				
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 10 of 35
--------------------------------	---------------------	------------------	---------------

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

	minimum received signal strength (RSRP) targets per operational area. The site survey report shall be submitted to Eskom C&I Engineering for review and approval before network design is finalised.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 11 of 35
--------------------------------	---------------------	------------------	---------------

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

3.	Supply, Install, and Configure 5G Core Network Equipment - The Contractor shall supply, deliver to site, install, and configure a Private 5G core network to support station-wide mobile voice communication. - The core network shall include as a minimum: 5G Standalone (SA) or Non-Standalone (NSA) core network, Contractor to recommend based on site requirements - Active/standby redundancy (1+1) on core network infrastructure - Session Management Function (SMF), Access and Mobility Management Function (AMF), and associated core network elements		HOLD POINT Eskom Matla C&I Engineering	Contractor
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 12 of 35
--------------------------------	---------------------	------------------	---------------

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

	• Voice application server, supporting push-to-talk (PTT) and standard voice calls • SIP gateway/trunk for PABX integration • Network management system with local monitoring dashboard • Minimum 400-user licence (matching existing DECT system capacity, current system supports 400+ handsets) • Rack, mounting hardware, and patching infrastructure • UPS/backup power interface per Electrical LDE design • Core network equipment shall be in a designated communications room at Matla Power Station.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 13 of 35
--------------------------------	---------------------	------------------	---------------

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

	Eskom to confirm final room location during site survey. The core network shall achieve a system availability of ≥99.99% per annum in line with ROC requirements.			
4.	Supply, Install, and Configure Radio Access Network (RAN) The Contractor shall supply, deliver to site, install, and configure the Radio Access Network including all base stations, antennas, and supporting infrastructure across all operational areas of the station.		Hold Point Eskom Matla C&I Engineering	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 14 of 35
--------------------------------	---------------------	------------------	---------------

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

	- Base station placement shall be in accordance with the approved site survey and network design. - RAN equipment shall be suitable for the industrial power station environment, IP65 minimum ingress protection, operating temperature range -20°C to +60°C minimum, EMC compliance to IEC 61000-4-2 (ESD), and rated for continuous 24/7 operation. - Where base stations are to be installed in or adjacent to hazardous areas as classified under OHSA and applicable IEC standards, equipment shall meet the applicable hazardous area certification requirements. The Contractor shall confirm area classification with Eskom prior to equipment selection.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 15 of 35
--------------------------------	---------------------	------------------	---------------

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

	- All cabling between the core network room and base station locations shall be routed through existing or new cable containment in accordance with the approved cable routing drawings and SANS 10142-1. - Civil and structural works for base station mounting (mast foundations, wall brackets, cable containment supports) shall be coordinated with the Civil LDE.			
5.	PABX Integration and Telephony Configuration The Contractor shall configure the interface between the Private 5G voice application server and the existing Matla Power Station PABX (HiCOM 300 series) via SIP trunk.		HOLD POINT- Eskom Matla C&I Engineering	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 16 of 35
--------------------------------	---------------------	------------------	---------------

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

	The integration shall enable as a minimum:			
	• Calls between 5G handsets and all fixed station extensions			
	• Calls from 5G handsets to external Eskom voice networks			
	• Calls from 5G handsets to public telephone networks (MTN, Vodacom, Telkom)			
	• Call history logging at handset level (dialled, received, missed)			
	• Extension number storage and retrieval from handsets			

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 17 of 35
--------------------------------	---------------------	------------------	---------------

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

	- The Contractor shall also confirm compatibility of the SIP interface with a future SIP-based PABX replacement in line with ROC requirement. - All telephony configurations shall be performed in coordination with Eskom Telecoms / NTCSA. No modifications to the existing PABX configuration shall be made without prior written approval from Eskom C&I Engineering. - A call routing test shall be conducted as part of acceptance testing covering all call types listed above.			
6.	The scope of this SOW shall include the supply, provisioning, configuration, testing and commissioning of user equipment, including handsets/devices and SIM		HOLD POINT- Eskom Matla C&I Engineering	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 18 of 35
--------------------------------	---------------------	------------------	---------------

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

	cards required for the operational use of the deployed 5G communication system. The Contractor shall: • Supply a minimum of 400+ handsets suitable for the power station environment, in line with ROC Document 559-792846344. • Provide handset specifications suitable for the power station environment, including minimum IP rating, operating temperature range, MIL-STD-810H or equivalent certification, Push-to-Talk capability, MCX/MCPTT support, and battery life requirements. • Supply, provision and configure all SIM cards required for the full complement of handsets.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 19 of 35
--------------------------------	---------------------	------------------	---------------

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

	• Provision and configure a minimum of 5 test SIM cards for acceptance testing purposes prior to full deployment. • Confirm compatibility of the supplied handsets with the deployed 5G network during acceptance testing. • Provide an extension numbering plan and SIM provisioning procedure for Eskom to follow when onboarding, replacing, or reassigning handsets and SIM cards. • Ensure that all handsets, SIM cards, numbering plans and provisioning configurations are fully integrated with the deployed 5G network and MCPTT/PTT services.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 20 of 35
--------------------------------	---------------------	------------------	---------------

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

	Note for costing: The Contractor's pricing shall include the full cost of all required handsets, SIM cards, SIM provisioning infrastructure, configuration, testing and commissioning. Handsets shall not be excluded from the Contractor's scope.			
7.	OT Cybersecurity Compliance and Network Segmentation The Private 5G network shall be designed and implemented as a dedicated, isolated communication platform. No direct IP routing between the 5G core network and any Eskom OT network (DCS, SCADA, historian, protection systems) is permitted.	557-4905 Matla Operational Technology Cyber Security Incident Response Work Instruction 240-129014618 Generation Cyber Security Compliance Standard	HOLD POINT- Eskom Matla C&I Engineering	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 21 of 35
--------------------------------	---------------------	------------------	---------------

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

	• The Contractor shall submit a cybersecurity architecture document as a deliverable, detailing: • Network segmentation design, VLAN isolation, firewall zones between 5G core and OT/IT networks • SIM-based device authentication, all handsets and user equipment must authenticate via SIM before network access is granted • Encryption, all signalling and user data traffic shall be encrypted end-to-end • Remote access controls, no uncontrolled remote access to the 5G core or management platform • Security monitoring, the Contractor shall describe how security events and anomalies will be logged and reported			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 22 of 35
--------------------------------	---------------------	------------------	---------------

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

	- The cybersecurity architecture document shall be reviewed and approved by the Eskom Station Cybersecurity Representative prior to installation. - The Contractor shall comply with 240-129014618 Generation Cyber Security Compliance Standard throughout design, installation, and commissioning.			
8.	Parallel Operation, Existing DECT System The existing NEC/Philips iS3000 DECT system shall remain fully operational throughout the entire installation and commissioning phase of the new Private 5G system. The Contractor shall not disconnect, modify, or interfere with the existing DECT system at any point during installation		HOLD POINT- Eskom Matla C&I Engineering	Contractor
Reference No: MEC-05970		Reference Rev No: 0	Date: 18/06/2026	Page 23 of 35

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

	without prior written authorisation from Eskom C&I Engineering.			
	Formal cutover from the existing DECT system to the new Private 5G system shall only take place after:			
	Eskom has issued a written acceptance certificate confirming the new system meets all acceptance criteria			
	A minimum parallel operation period of 5 working days has been completed with both systems running simultaneously			
	All station users have been briefed on the new system			

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 24 of 35
--------------------------------	---------------------	------------------	---------------

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

	The decommissioning of the existing DECT system (removal of repeaters, handsets, and core equipment) is excluded from this scope and will be managed separately by Eskom.			
9.	Factory Acceptance Testing (FAT) The Contractor shall conduct a Factory Acceptance Test (FAT) on the 5G core network equipment prior to delivery to site. The FAT shall demonstrate as a minimum: Core network functionality, call setup, call routing, registration of test devices		HOLD POINT- Eskom Matla C&I Engineering	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 25 of 35
--------------------------------	---------------------	------------------	---------------

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

	• Redundancy failover, active/standby switchover with defined recovery time • Voice quality, MOS (Mean Opinion Score) ≥3.0 on test calls • PABX SIP interface functionality • Network management system, alarm generation, logging, and monitoring functions A final FAT report shall be prepared by the Contractor and submitted to Eskom C&I Engineering for acceptance. The FAT report shall include test procedures used, test results, discrepancies identified, retests conducted, and FAT certificate.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 26 of 35
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	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
		Effective Date	October 2024		
		Review Date	October 2027		

	Eskom C&I Engineering representative shall be invited to witness the FAT. Travel costs for Eskom representative to attend FAT at Contractor premises (if off-site) are for Eskom's account.			
10.	Site Integration and Acceptance Testing (SIT/SAT) The Contractor shall conduct a Site Integration and Acceptance Test (SIT/SAT) after installation and commissioning is complete. The SIT/SAT shall include as a minimum the following tests: RF coverage walk test, measurement of received signal strength (RSRP) at defined test points across all operational areas. Minimum RSRP target to be defined		HOLD POINT- Eskom Matla C&I Engineering	Contractor

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 27 of 35
--------------------------------	---------------------	------------------	---------------

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

	in the network design and agreed with Eskom prior to testing • Voice quality test , MOS ≥ 3.0 measured at minimum 10 test points across the station including worst-case coverage areas • Call setup and routing test, calls between handsets, calls to fixed extensions, calls to external Eskom network, calls to public network • PABX integration test, all call types defined in scope item 2.7 • Handover/roaming test, call continuity while walking between base station coverage zones			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 28 of 35
--------------------------------	---------------------	------------------	---------------

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

	• Redundancy test, core network failover with call continuity verification • Cybersecurity configuration review, network segmentation and firewall rules verification • System availability measurement , minimum 72-hour continuous operation monitoring prior to acceptance The Contractor shall prepare a SIT/SAT test procedure and submit it to Eskom C&I Engineering for approval at least 10 working days before testing commences. A final SIT/SAT report shall be submitted to Eskom C&I Engineering. Acceptance will be issued by Eskom after all test results are confirmed as satisfactory.			
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 29 of 35
--------------------------------	---------------------	------------------	---------------

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

LIST OF PROCEDURES

	The following procedures needs to be adhered at Matla • 240-56227443 Requirements for Control and Power Cables for Power Stations Standard • 240-109607332 Eskom Plant Labelling Abbreviation Standard • OMOP 4497 Quality Requirements and control of quality inspection plans/ process quality • OMOP 2721 Limited Access Register • OMOP 2975 Personal Protective Equipment Policy • QM58 Quality Management Procedure • OMOP 2332 Access to Equipment Rooms • 240 – 132190480 Telecommunications Equipment Installation Standard • ST_240-75975613 Installation of a Telecoms equipment cabinet • 240-76666863 TELECOMMUNICATIONS NETWORK ARCHITECTURE STANDARD • Concept Design Report 559-5466408 • ROC Document 559-792846344 , Coverage Requirements. • 240-129014618 Generation Cyber Security Compliance Standard
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Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 30 of 35
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	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	7
		Effective Date	October 2024		
		Review Date	October 2027		

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 31 of 35
--------------------------------	---------------------	------------------	---------------

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

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			

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 32 of 35
--------------------------------	---------------------	------------------	---------------

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

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	

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 33 of 35
--------------------------------	---------------------	------------------	---------------

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

COMMENTS

ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
1	
2	
3	
4	

Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 34 of 35
--------------------------------	---------------------	------------------	---------------

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



Reference No: MEC-05970	Reference Rev No: 0	Date: 18/06/2026	Page 35 of 35
--------------------------------	---------------------	------------------	---------------

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