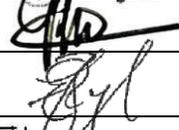
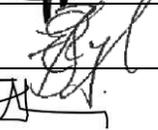
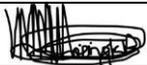


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<b>PLANT AREA: LP Pump House</b>			
<b>TITLE: Supply Two New Fire Diesel Engines, Install and Commission the Engines</b>			
<b>REF: MEA-06824</b>	<b>Reference Rev No:01</b>	<b>MULTIDISCIPLINARY: No</b>	<b>Plant Level: All</b>
<b>COMPILED BY</b>	<b>Name: Michael Tladi Systems Engineer/End User</b>	Signature: 	Date: 19/02/2026
<b>APPROVED</b>	<b>Name: Gavin Phelelo Line Manager</b>	Signature: 	Date: 19/02/2026
<b>APPROVED</b>	<b>Name: Lindokuhle Ngobese Group Manager</b>	Signature: pp 	Date: 20.02.2026
<b>REVIEWED</b>	<b>Name: Jabulani Mtsweni Quality Department</b>	Signature: 	Date: 20/02/2026
<b>REVIEWED</b>	<b>Name: Occupational Health and Safety</b>	Signature:	Date:
<b>REVIEWED</b>	<b>Name: Bethuel Moeng Environmental Department</b>	Signature: 	Date: 20/02/2025
<b>ACCEPTED</b>	<b>Name: Outage Manager/Maintenance manager</b>	Signature: 	Date: 2026.02.23
<b>ACCEPTED</b>	<b>Name: AIA</b>	Signature:	Date:

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**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	<ul style="list-style-type: none"> <li>• Health and safety file should be approved by Safety risk management department prior to any work commences on site</li> <li>• All work is to be done in accordance with OHS Act 85 of 1993, Matla plant procedures and Plant Safety Regulations. (240-150642762).</li> <li>• Matla power station SHEQ induction must be done before access to site can be granted</li> <li>• The contractor should ensure that all employees have acquired the required competency for the task they are performing.</li> <li>• The contractor to ensure compliance to updated legal requirements and other requirements.</li> <li>• <b>BUY QUIET:</b> All stakeholders are encouraged to purchase or rent quieter machinery, equipment, and tools to reduce worker noise exposure, contribute towards compliance</li> </ul>	Eskom to witness.	Contractor

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		to OHS&A noise exposure limits and ultimately reduce the risk of noise induced hearing loss.		
1.2	Environmental Management.	<ul style="list-style-type: none"> <li>All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental <b>AUTHORISATION</b> before commencement of work.</li> <li>The contractor shall comply with all applicable legal and other requirements.</li> <li>The polluter pays principle will be applied.</li> <li>The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer: OMOP 4090 and 4402).</li> <li>The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C: OMOP 4402) of designated area.</li> <li>EMS file based on ISO14001 will be required.</li> </ul>	Eskom to witness.	Contractor
1.3	Quality Management	<ul style="list-style-type: none"> <li>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.</li> <li>Contractors/executioner to adhere to QM 58 and OMOP4497 requirements</li> <li>Number of NCR issued can affect your next tendering process.</li> <li>The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA.</li> </ul>	Hold point	Contractor

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		<ul style="list-style-type: none"> <li>No procuring of outage items without the approval of scopes by quality</li> <li>All outage scopes creep and scopes addition should be approved by quality</li> <li>No contractor should be in the possession of scopes for execution without the scopes approved by quality</li> <li>The contractor is subjected to quality auditing at any point in time during execution of scope</li> </ul>		
1.4	Inputs from other departments			
1.5	Commissioning reference			

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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
2	<p>The works comprise the selection, procurement, supply, removal of existing units, installation, testing, and commissioning of two new diesel-driven fire pump engines for the fire protection system at Matla Power Station.</p> <p>The scope includes all diesel engines and associated equipment and components necessary for their operation, including but not limited to engine control panels, batteries, coupling, exhaust systems, and dedicated diesel fuel storage and supply systems.</p> <p>The existing main fire pumps and jockey pump shall be retained and reused. The scope is limited to the replacement of the diesel engines and associated direct systems required for their operation and integration with the existing installation. No modifications to the broader fire water distribution system are included, except for minor works necessary to facilitate removal and installation of the engines.</p>			
2.1	<p>The scope of work for the old Diesel entails:</p> <ol style="list-style-type: none"> <li>Removal of the two old diesel engines.</li> <li>Handover the engines to the client and all decommissioned equipment of the engines.</li> <li>Inspect the base and recommend, together with Matla engineering, repairs of the base if necessary</li> </ol>	<p><b>Specification for the old engines</b></p> <ul style="list-style-type: none"> <li>Cummins NT 855-P335 Engines</li> <li>Bore: 139.7mm</li> <li>Stroke: 152.7mm</li> <li>Capacity: 14011cc</li> </ul>	Hold	Contractor

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	<p>d) Take measurements of the engines to ensure that the new engines will align correctly with the pump after the installation</p> <p>e) The contractor shall verify all existing interfaces, dimensions, and conditions before installation.</p> <p>f) Identify all other equipment that will be required for the running of the diesel engines</p> <p>g) Install and commission the diesel engines:</p> <ul style="list-style-type: none"> <li>• Kirloskar 6SL9088TA diesel fire pump engines or approved equivalent,</li> <li>• Engine control panel with Deep Sea DSE-E800 controller and DSE9130 charger,</li> <li>• 2 x 12V 102Ah batteries,</li> <li>• Rubber/Fenner coupling,</li> </ul>	<ul style="list-style-type: none"> <li>• Power: 250 kW @2100 RPM</li> <li>• Compression ratio: 14:1 to 1</li> <li>• Cylinders 6</li> <li>• Firing order: 1-5-3-6-2-4</li> <li>• Rotation: Clockwise viewed on the flywheel</li> </ul> <p><b>Pump information driven by the diesel engines</b></p> <ul style="list-style-type: none"> <li>• Mather + Platt Pump</li> <li>• Impeller diameter: 480mm</li> <li>• Pump type: Centrifugal</li> <li>• Configuration: Horizontal Split Casing</li> <li>• Design duty: 540m<sup>3</sup>/h</li> </ul>		
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	<ul style="list-style-type: none"> <li>• Mild steel set-mounted exhaust,</li> <li>• Fuel tank</li> <li>• Specific labour, transport, testing and commissioning allowances</li> </ul> <p>h) Train Eskom Maintenance and OPS personnel on the operation and maintenance of the diesel engines</p> <p>i) Provide a minimum 12-month warranty from the date of commissioning for the diesel engines</p> <p><b>Execution, Testing, and Commissioning Requirements</b></p> <p>j) The contractor shall be fully responsible for the execution of all activities required to deliver a</p>	<ul style="list-style-type: none"> <li>• Design head 738 kPa</li> <li>• Stages: Single</li> <li>• Rated RPM: 1450</li> <li>• Rated voltage: 380</li> <li>• Rating: 149 kW</li> </ul> <p>The specifications of the engines and pumps are given for tender purposes and guidance only. Full site inspection and/or assessment, calculations and proper selection must be done in consideration of latest standards and requirements governing fire diesel engines.</p> <p><b>Tender Requirements</b></p>		
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	<p>complete, installed, tested and commissioned diesel fire pump engine system.</p> <p>The scope shall include, but not be limited to, the following:</p> <p><b>a) Factory Testing</b></p> <p>The contractor shall perform factory acceptance testing (FAT) on all supplied diesel engines and associated control systems prior to delivery. FAT documentation, including test certificates and performance verification results, shall be submitted to Eskom for review and approval.</p> <p><b>b) Transportation and Rigging</b></p>	<p>The contractor to supply the following documents with reply to the RFQ</p> <ol style="list-style-type: none"> <li>1. Proposed diesel engines information stating the comparability between old diesel engine and the new diesel engines. Information to include catalogue brochure of the engines complete with data sheets, indicating technical performances, dimensions of engines, length, width, height complete with output shaft details dimensions, elevation, etc.</li> <li>2. Detailed method statement of how the work will be executed complete with the following as a minimum</li> </ol>		
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	<p>The contractor shall be responsible for the transportation of all equipment to site, including offloading, handling, and rigging into final position. All lifting plans and rigging procedures shall be submitted for approval prior to execution.</p> <p>e) <b>Commissioning and Functional Testing</b></p> <p>The contractor shall provide commissioning services, including start-up, operational testing, and functional verification of the diesel engines under simulated and/or actual operating conditions. Commissioning shall demonstrate compliance with performance requirements and applicable standards. The diesel engine and pump system shall demonstrate</p>	<ul style="list-style-type: none"> <li>• Purpose</li> <li>• Scope</li> <li>• References</li> <li>• Responsibilities</li> <li>• Manpower</li> <li>• Required tools</li> <li>• Quality control and Assurance</li> <li>• Safety Instructions and housekeeping</li> </ul> <p>3. Company registration number</p> <p>4. Diesel Mechanic with trade test certificate and 5 years working experience</p> <p><b>Standards</b></p>		
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	<p>compliance with required duty point (flow and pressure) during commissioning.</p> <p><b>f) Health and Safety File</b></p> <p>The contractor shall compile and submit a complete Health and Safety File in accordance with the Occupational Health and Safety Act (Act 85 of 1993) and Eskom requirements prior to commencement of work. The file shall be maintained and updated throughout the execution of the works.</p> <p><b>g) Documentation and Data Packs</b></p>	<p>The diesel engines shall comply to all standards governing the design and manufacture of the diesel engines however not limited to</p> <ul style="list-style-type: none"> <li>• ISO 9001 Quality Management Systems</li> <li>• OHS ACT Occupational Health and safety, Number 85 of 1993</li> <li>• NFPA 20</li> </ul> <p>SANS 10287 and other recognised international standards.</p> <p><b>Fuel Tank</b></p>		
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	<p>The contractor shall provide a complete data pack upon completion of the works, including but not limited to:</p> <ul style="list-style-type: none"> <li>• Factory test certificates</li> <li>• Commissioning reports</li> <li>• Alignment reports</li> <li>• As-built drawings</li> <li>• Operation and maintenance manuals</li> <li>• Spare parts lists</li> </ul> <p><b>General Requirements</b></p> <p>a) The proposed diesel engines shall be UL/FM approved as per NFPA 20 requirements</p>	<p>The diesel fuel storage system shall comply with the following minimum specifications:</p> <ul style="list-style-type: none"> <li>• Tanks shall be constructed from <b>mild steel or approved equivalent</b>, suitable for diesel fuel service, and designed in accordance with <b>SANS 10131 / SANS 10228</b> or applicable standards.</li> <li>• Each tank shall be complete with: <ul style="list-style-type: none"> <li>▪ Level indicator (visual and/or electronic)</li> <li>▪ Low-level alarm and high-level alarm</li> <li>▪ Lockable filling point with spill containment</li> <li>▪ Drain valve and sampling point</li> <li>▪ Vent pipe with flame arrester</li> </ul> </li> </ul>		
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	<p>b) The proposed diesel engines shall comply to all aspect of SANS 10287 and/or NFPA 20 unless otherwise approved by the Engineer.</p> <p>c) The rated output power of the selected diesel engine used to drive a pump shall be at least 10 % more than the full load demand of the pump at any flow rate up to the design pressure and 1,1 times the design flow rate</p> <p>d) The engines must be de-rated for the Matla Power Station Altitude and Temperature, taking cognisance where they are installed. All de-rating applied to be in-line with SANS 10287 requirements for diesel engines as stipulated in sections 5.4.5 and 5.5.3 in particular and overall standard in general.</p>	<ul style="list-style-type: none"> <li>• Fuel supply and return lines shall be provided, including: <ul style="list-style-type: none"> <li>▪ Isolation valves</li> <li>▪ Inline filtration system</li> <li>▪ Flexible connections to accommodate vibration</li> </ul> </li> </ul>		
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	<p>e) The contractor supplies all equipment's and material necessary for the construction of the works. The contractor shall conduct a thorough inspection on site to assess all required equipment and material to complete the works and take measurement of the currently installed engines.</p> <p>f) Diesel engines to come with build in water heating element or improved technology for ease of use (Starting) during colder/winter season.</p> <p>g) The contractor shall design, supply, install, test, and commission a dedicated diesel fuel storage system for each fire diesel engine.</p> <p>h) Each diesel engine shall be provided with an independent fuel tank with a minimum capacity of 500 litres, or alternatively sized to provide a</p>			
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	<p>minimum of 8 hours continuous operation at full load, whichever is greater</p> <ul style="list-style-type: none"> <li>i) The contractor shall comply with the specification supplied by the client unless otherwise approved.</li> <li>j) The contractor to use the currently installed C&amp;I and Electrical system to interface to the diesel engines.</li> <li>k) The engines to come with build in digital instrumentation readings.</li> <li>l) The engines to be painted signal red.</li> <li>m) Existing main fire pumps will be retained,</li> <li>n) Existing jockey pump will be retained.</li> <li>o) The Works exclude replacement or installation of new plant-wide power, signal, AUX, BMS and external control cabling beyond final terminations</li> </ul>			
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	<p>at the new diesel engine control panels, unless specifically instructed by Eskom.”</p> <p>p) All existing field interfaces shall be verified during site assessment</p> <p>q) No major modification to fire water pipework, pressure control valves or distribution pipe systems is included, other than direct removal and reconnection necessary for installation of the replacement engines</p> <p>Full specifications for the old engines can be downloaded on (<a href="#">part 1.pdf (numeralkod.com)</a>)</p>			
			Hold	Contractor
			Hold	Contractor

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**BILL OF MATERIAL**

	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1	Fire Diesel Engines	As per scope of work complete with all accessories	N/A	N/A	2

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		

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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		

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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, S		x		

COMMENTS


ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
1	Technical Criteria
2	
3	

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4	
5	

**Table 1: Mandatory Technical Criteria**

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	<p>The Tenderer to confirm that they have a track record of 5 completed project as a minimum installation, testing and commissioning of the diesel engines</p> <p>Submit a written confirmation stating that the supplier has completed at least 5 projects in the installation test and commissioning of the diesel engines</p>	<p><b>Tender Returnable</b></p> <p>Written confirmation letter stating at least 5 projects completed by the tenderer in the in the installation test and commissioning of the diesel engines with project values complete with traceable award letters or completion certificates to be provided</p>	<p>Fire system is a level one plant and key personnel allocated to the contract should have necessary documents. This is to ensure that the tenderer has the capability and experience to undertake the works</p>

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**Table 2: Qualitative Technical Evaluation Criteria**

Weight Threshold (%)	Section	KPI- Criteria Evaluation Indicator	Minimum Criteria Evaluation Requirements	Source	%	Qualitative Evaluation Scoring				
						0	2	4	5	
<b>Technical Requirements</b>										
						<b>0%</b>	<b>40%</b>	<b>80%</b>	<b>100%</b>	
75%	Technical Requirements	Traceable Evidence of Projects Completed	Evidence of similar projects that have been completed, involving installation, test, and commissioning of diesel engines	Company to provide list of previous work completed. With proof of completion-certificates, contact person at the company where the work was carried out.	25%	Not Provided=0%	1-2 Project completed with completion certificates and contact persons= 40%	3-4 Projects completed with completion certificates and contact persons= 80%	5+ Projects completed with completion certificates and contact persons=100%	
		Qualifications	Diesel Mechanic	CV and certificates of qualifications as diesel mechanic	25%	Not Provided=0%	Submitted with less than 1-2 years	Submitted with all certificates with less than 3- 4 years	Submitted all requirements and 5 years plus experience =100%	

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				and trade test certificate			experience =40%	experience=80%	
		Documentation	Type of Documentation	Submit method statement detailing how the work will be executed with the following as a minimum. 1 Purpose 2 Scope 3 References 4 Responsibility 5 Manpower Category 6 Requirements 7 Methodology 8 Quality Control & Assurance 9 Safety Instruction & Precautions	20%	Not Provided=0%	Submitted method statement with 1-5 activities=40%	Submitted method statement with 6-8 activities=80%	Method statement submitted with 9 plus activities = 100%

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				Provide a step by step the tasks required.					
			Cost Breakdown	Detailed cost breakdown to be submitted with the reply to the RFQ	15%	No Cost submitted=0%	N/A	N/A	Submitted with detailed cost breakdown=100%
			Quality Documents	Submit the Quality document report covering the following tasks but not limited to 1 QCP for installation of the diesel engines 2 Testing and commissioning of the diesel engines 3 Typical data book index for installation, maintenance and	15%	No Information submitted incomplete documentation=0%	Submitted documentation covering 1-2 items =40%	Submitted Documents covering 3 items 80%	Submitted documents covering 4 and above=100%

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				testing of the diesel engines. 4 Spare parts list for diesel engines components					
<b>NB: ONLY TECHNICAL SUITABLE SCORE AT 75% PLUS TO BE CONSIDERED</b>									

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