



Invitation to Tender  
Enquiry No : MPMAT10723GX

ESKOM HOLDINGS SOC LTD  
ADDENDA: INVITATION TO TENDER  
FOR

UPGRADE SLURRY PLANT PLC AND SCADA FOR A PERIOD OF TWO (02) YEARS AT MATLA POWER STATION

ADDENDA FOR THE FOLLOWING:

- Revised Tender Closing Date
- Technical Appendices (Attached)
- Technical Concerns

Technical Concerns

No	Description	Concern	Responses
1	Please provide the Appendices below	<ul style="list-style-type: none"><li>• Appendix E not issued</li><li>• Appendix J &amp; L not issued</li></ul>	Attached
2.	Below is the list of pending clarification that were requested from Matla sometime ago, please do assist in getting a response to these queries	<ol style="list-style-type: none"><li>1 Comprehensive I/O list</li><li>2 During the site walkdown, we not given access to the Battery chargers and 24 V DB's I see this nowhere in the SOW Please could Eskom provide full documentation on these units and the</li></ol>	The batteries are ABB static power battery charger. Plant walk was done with ABB and access was granted for the Battery chargers, there is access to battery room and a site walk can be organized again for clarification

		associated distribution boards to check their adequacy for the new C & I system to be offered	
	<p>Clause 2.2 'The purpose of the works is to upgrade the PLC, SCADA, networks, UPS and Battery Charger systems and also LV Switchgear and control gear Assemblies at Slurry Plant</p> <p>"Please clarify the following from this statement</p>	<ul style="list-style-type: none"> <li>We were told that a UPS is available Please confirm this in writing.</li> <li>We are aware from the last visit in 2021, that the Battery charger (24V) was new Is it required in this scope of supply</li> </ul>	<p>Matla Power station has a dual 30kVA UPS allocated for this project</p> <p>No, the battery chargers are not required in this SOW</p>
	<p>Clause 4 2 1 "The auxiliary control voltage on the switchgear boards shall be maintained with a Dip Proof Inverter which shall be maintained by the Employer "</p> <p>Please clarify, if the text reads "shall be maintained by the employer", is this in the scope of supply?</p>		<p>There is no 4.2 1 ,in the document it states all boards with motor circuits shall be supplied with dip proof inverters, contractor shall supply the motor circuits ,Eskom shall maintain these DPIs</p>
	<p>"The IEDs of the LV switchgear must be the same or have means to communicate (IEC 61850) with those IEDs used on the Station's MV switchgear to enable ease of integration to the existing network and facilitate standardization. The IEDs for the incomer circuits shall also be able of controlling the bus section circuit-breaker "</p>		Siemens 7SJ64 protection scheme

	Please confirm IED's fitted to MV Transformer circuit breakers. This is critical for interface								
	<p>Clause 3.5.3 "The Contractor shall ensure that all motors which are above 30kW or larger and critical/ essential motors shall be fitted with approved current transformers which are compliant with 240-56357424 The protection circuits shall be in line with 240-56357424 and all protection relays used shall be 240-56227589 approved The Contractor specifies and supplies all the required neutral star side current transformers in accordance with 240-56357424."</p> <p>Please clarify if these star point CT's are for differential protection Motor differential is only required for MV motors 1MW and above We need to check if this is possible on the motors that are above 30kW if this is required</p>		The motors we have on the 400V board are all LV motors. The primary reason for the CTs is for overcurrent protection, earth fault protections etc as per standard and their neutral point is shorted to earth						
	<p>C0 ECC3 Contract PLC Scada Upgrade pdf 1 756 MB - This has contract data and Works Info</p> <p>SOW. PDF            Technical SOW 68 pages</p> <p>Not sure if 2<sup>nd</sup> document is the same as the first document for technical SOW</p>		<table><tr><td>Appendix C Matla Power Station Slurry Plant IO Blocks.xlsx</td><td>This file only has IO block per PLC? Not as is normally given, which is per function</td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	Appendix C Matla Power Station Slurry Plant IO Blocks.xlsx	This file only has IO block per PLC? Not as is normally given, which is per function				
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	<p>The below document shows ABB melody interfaces to Devices and is in Draft form, Is this part of WI?</p> <p>Proposed LV IO Standard Interfaces_1 REV 1.xls</p>		These are the proposed LV IO standard interfaces, the interfaces are standard throughout the station, on the switchgear schedule different circuits have specific IO interfaces assigned to them						

Which of these documents is the applicable control philosophy?

System Control and Operating Philosophy- Part 1 (1 of 2) pdf	6 978 MB
System Control and Operating Philosophy- Part 1 (2 of 2) pdf	4 014 MB
System Control and Operating Philosophy- Part 2 (1 of 1) pdf	6 633 MB
System Control and Operating Philosophy.pdf	6 341 MB
Appendix F Matla Slurry Plant Pumping system Operating and Control Philosophy docx	


What is the purpose of this document?

Appendix K 380v Board A and B - Frequently isolated switchgear docx

This is for installation purposes, these functional units are not continuously running or have standby units which will allow planning for installation, as stated the plant is a common plant and a full outage on the whole plant is not possible therefore a maximum of 8 hours can be allowed on each board at different intervals

	Which of these documents should be used?		<div data-bbox="1552 124 2047 248">Appendix K ASH PLANT 400V BOARD A and B(REV 3) xls</div> <div data-bbox="1552 248 2047 373">Appendix K ASH PLANT 400V BOARD A and B(REV 5) xls</div> <div data-bbox="1552 373 2047 513">ASH SWITCHGEAR SCHEDULE PLANT 400V BOARD A and B(REV 3) xls</div> <div data-bbox="1552 513 2047 638">ASH PLANT 400V BOARD A and B(REV 5) xls</div>	
			Appendix K	

Kind Regards,



Signature

Stanley Ngwenya

Acting - Manager Procurement – Matla Power Station

Date

20/10/2023