

	<b>Tender Questions and Answers</b>	<b>Document Identifier</b>	240-7124948	<b>Rev</b>	1
		<b>Effective Date</b>	01 April 2023		
		<b>Review Date</b>	April 2026		

<b>To whom it may concern</b>	<b>Date</b>	28 August 2025
	<b>Enquiries</b>	Malesela Madiba
	<b>E-mail address</b>	MadibaMB@eskom.co.za

Dear Sir/Madam

<b>Request for Enquiry Number</b>	E1635CXMWP
<b>Description / Project Title</b>	Upgrade and replacement of the Supervisory Control and Data Acquisition System (SCADA), at the Komati Water Scheme (KWS).
<b>Tender Questions Closing Date</b>	23 September 2025

Item	Questions	Answers	Clarity Published Dates
1.	Does the bidding company have to local presence or form a joint venture with a South African company.	Tender includes installation on site in South Africa. There is limitation on who can tender.	26/08/2025
2.	If it is possible to have time extension for the closing of the tender, more effort is required to prepare the tender returnable.	The response to be posted. The extension will be published. CLOSING DATE: 01 October 2025 CLOSING TIME: 10:00	26/08/2025
3.	Can a site visit be scheduled?	No, it won't be possible.	26/08/2025
4.	Is there a specific vendor that is preferred for Scada software	No, there is no specific vendor required.	26/08/2025
5.	What is the current scan point	15000	26/08/2025
6.	Existing network infrastructure drawings and Existing loop wiring drawing	Refer Appendix 2_ Drawings.	26/08/2025

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7.	Will the Historian be in a separate computer	Yes, please refer to Sec. 4.3.5 in the scope of work for the requirements	26/08/2025
8.	Current SCADA name and model	Citect SCADA v7.4 SP2	26/08/2025
9.	Besides the HMI Clients required at the pump stations, is there an Engineering Station Required at Witbank Eskom Park?	Yes	26/08/2025
10.	In terms of the backup and restore system is Eskom expecting a dedicated computer for this purpose or can the back and restore reside on the HMI clients and the SCADA servers etc without dedicated hardware?	The back and restore requirements, please refer to Scope of work Section 1.1.19 and 4.3.12	26/08/2025
11.	<ul style="list-style-type: none"> <li>Where can we obtain Mimic and Scada tag requirements. Current/Existing Scada system design documents.</li> <li>RTU layout designs for each Pump station. I want to calculate the number IO's to be transmitted and HMI Graphics</li> <li>SCADA Tag Count - Could you please confirm the estimated number of SCADA tags (I/O points) across all sites, including digital, analog, and calculated tags?</li> </ul>	Please Refer "As Built & Appendix" information.	26/08/2025
12.	RTU layout designs for each Pump station. I want to calculate the number IO's to be transmitted and HMI Graphics	Please Refer "As Built & Appendix" information.	26/08/2025
13.	Existing multiplexers are currently in use. System network infrastructure and the type of fiber optic	Refer Appendix 2_ Drawings: 3002_03 R3 KWS Process Control System Overview	
14.	Existing UPS sizes	3.5 kW only for the Server, at the pumpstation it's not required.	26/08/2025
15.	Are UPS systems required for SCADA servers and HMIs? Should power redundancy be included?	There sufficient backup power suppliers for the servers ,please refer to Section. 4.3.3 (. For the HMI's its not required.	26/08/2025
16.	Is there specific cybersecurity standards (e.g., NIST, ISO 27001).	Eskom aligns its systems to the US National Institute of Standards and Technology (NIST) Cyber Security framework in order to protect its assets. Refer: Appendix	26/08/2025

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		3-Standards: 559-577223024 Generation Cyber Security Standard for Operational Technology - Rev 1	
17.	Electronic Security Perimeter, including a DMZ and UTM, installed ensuring compliance with codes and standards. These infra already installed right and not to be included in the scope. Correct if needed.	Its part of the scope for the Scada upgrade.	
18.	Could you please confirm the model or part number of the existing ABB RTUs to ensure compatibility with our proposed SCADA system	ABB RTU 560 protocol IEC 60870-5-104 Refer Appendix 2_ Drawings: 3002_03 R3 KWS Process Control System Overview	26/08/2025
19.	Decommissioning of Scada system related infra/systems like server/client/workstation etc. can be In the scope. - Soft-Decommissioning. Please confirm	Yes, it's part of the scope.	26/08/2025
20.	"We are providing only SCADA Application development and commissioning and related hardware/software/Infra supply. Infrastructure/hardware includes server, client, tablets, printer, barcode scanner etc. Software includes - Procurement of software and licenses and configuration of SCADA system to fulfil requirement specified.  Network/power infra setup and readiness will be in client scope or can be sub-contracted to local vendor"	Yes, Network and Power infrastructure will be provided by the client.	28/08/2025
21.	GPS clock is already replaced not in the scope. Correct if needed.	GPS replacement is part of the scope	28/08/2025
22.	"Network switches, routers, and firewalls replaced to address obsolescence, compliance, and compatibility". This network infrastructure already purchased and replaced and this is kept in scope for info only? Or you intend to be in scope of contractor?	It's part of the scope for the contractor to provide. (put ref from SOW)	28/08/2025
23.	SCADA hardware already replaced? Like servers and client (desktop/tablet)	No, its not yet replaced. It is part of the scope.	28/08/2025
24.	"The Contractor provides all material, equipment, and services necessary for the works." "Needs to know clear and specific expectations" Is below understanding, correct? Add details if any. Software and licenses - procurement and installation	Correct interpretation of the statement.	28/08/2025

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	Software Engineering Services - Design, Engineering and commissioning of SCADA Applications Hardware needed for SCADA server and Clients Systems - Server, Clients, network, firewall, switches, infra needed to enable SCADA systems		
25.	How many printers are in use and how many new printers (A3 Colour laser) required?	Currently printers are obsolete use. 2 new printers are required.(ref to SOW)	28/08/2025
26.	"How many switches, firewall and routers are utilized in current Scada system? provide technical specs. Need to know the count of no. of switches and router required?"	9x9 main ports switches, 1x24 port, The switches have fiber capabilities. (Ref SOW) There is 2 ports on the firewall that is available for the DMZ	28/08/2025
27.	Is it expected from vendor/contractor to procurement of Backup and Storage infrastructure to meet daily weekly and monthly backup mechanism or just a services to configure them? What is expected scope? Please clarify	Refer to Annexure K: Scope of work	28/08/2025
28.	"You are expecting to have any security breach to be reported over email and will have dedicated IT control room to be setup for monitoring and control of SCADA infra security management system. You might have IT Team and infra for same, they can manage it too. Pl. indicate this Security Management system for monitoring and control in scope for Scada infra under OT network?"	Refer to the ESKOM standard	28/08/2025
29.	In the RFT, its ambiguous that you would like to upgrade (means existing CITEC to newer version of CITEC) or Migration (Citect to any platform meeting industrial standards) - We are considering migration option and platform will be Aveva (formerly Wonderware).	We are open to any solution upgrade or migration. SCADA software upgraded or replaced, migration and/or re-engineering functions to ensure support, compatibility, integration, and full functionality between new and existing hardware.	28/08/2025
30.	Total no. of Scada clients expected in control rooms, at pump stations and across solution/system across estimated 7 sites	4 pumpstations, 2 at the Main Control room(multi-screen driven) and 1 Eskom park (check with SOW)	28/08/2025
31.	Any integration expected with third party system such as SAP/LIMS/Report/BI systems? If yes, indicate tentative no. of integration touchpoints?	All integration will be done, as described in the Annexure K	28/08/2025

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32.	Any legacy or obsolete devices/RTU/PLC/ any system to be integrated? If yes provide protocol, supported method for integration such as ODBC, OPC, REST-API, File Exchange etc.	No requirement to integrate an obsolete or legacy device	28/08/2025
33.	Full fledged asset hierarchy indicating Sites-->Area1-->Station 1 -> Control rooms-> Clients 1..N Sites-->Area1-->Station 2 -> Control rooms-> Clients 1..N To understand no. of SCADA clients per control room and station to estimate system sizing and architecture	Please Refer Appendix 2_ Drawings:	28/08/2025
34.	Any tentative schedule or timeline expectations? Or any starting/kick off date for planning?	We estimate that the project can be executed in 6 months, after contract award.	28/08/2025
35.	Need to know total no. of users across the locations potentially planned to use the Scada clients. Count will be sufficient,	7 users	28/08/2025
36.	Removal and/or relocation of existing C&I Plant systems – Will this be part of new works (scope), please clarify what the works entails.	Removal of the old system old HMI's in the pump station refer Annexure Scope of work section 4.1.12	28/08/2025
37.	Existing license number of the existing SCADA system.	Utilizing dongle license's system in a group (viewing, full server and control license)	28/08/2025
38.	Does Eskom have a back-up system of the existing system	We don't have it. Its manual back-up.	28/08/2025

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