	Request for Information (RFI) – MWP2531TX	Document Identifier	240-72663051	Rev	1
		Effective Date	October 2022		
		Review Date	October 2027		
		RFI Number	MWP2531TX		

PART A REQUEST FOR INFORMATION (RFI) – MWP2531TX			
Description of the services	Request for information to develop a National Transmission Asset Management Center		
Deadline for submission	28 May 2024	At (South African Standard Time)	10h00am
Tender Office address	Eskom Megawatt Park Tender Office Northside Maxwell Drive Sunninghill		

Eskom Holdings SOC Ltd (“Eskom”) invites you to submit to submit information for the services as stated in the table. This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further deliberation and development of a strategy for the National Transmission Asset Management Center.

Basic compliance:

- Submit a complete original tender, plus One (1) hard copy of the original tender to Eskom Tender Office.

Note:


Both the original tender and one (1) complete hard copy should be submitted at tender closing date.

Eskom Transmission intends to establish a National Transmission Asset Management Centre (NTAMC) in future for its transmission assets. Eskom Transmission seek the information to understand the solutions available in the market to meet Eskom’s Transmission needs.

The NTAMC also referred to as the asset health centre or remote monitoring and diagnostics centre, will function as a centralised system responsible for continuously monitoring and analysing the health and performance of transmission network assets remotely. It will serve as a knowledge hub for collecting, monitoring, and analysing data from various sources, including sensors, monitoring systems, and other data sources.

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Eskom has delegated the responsibility for this RFI to the signatory of this document, whose details can be found below.

We look forward to receipt of your response.


Yours faithfully

Name	Designation	Signature	Date
Godfrey Radzelani	Officer Procurement	<i>GR Radzelani</i>	23.04.2024
Telephone number	011 871 3165	Fax and/or e-mail address	RadzelGR@eskom.co.za

PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	Date	
Attention			
Tel no		Fax no and /or e-mail address	
From		Address	
Address			
Sender			
Description of the services	Request for information to develop a National Transmission Asset Management Center		

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Please find below our response to Eskom's questions:

No	Question	Indicate (Yes/No)	Provide reference/links
	NTAMC Requirements		
1.	Have you developed an asset management centre? If yes, please provide details of how this was implemented e.g., phased approach.		
2.	What functions does an asset management centre perform to improve asset health and performance?		
3.	How is the asset management centre system designed? Please include system architecture (logic design) indicating hardware and software components, data flow, and applications/systems required to support the centre (including integration points).		
4.	Can the asset management centre system manage different transmission asset classes (e.g., Powerlines, Transformers, Protection devices) and if so, which ones and why?		
5.	Is the asset management centre system scalable, modular, and flexible for future expansions and technology upgrades? If yes describe how this is achieved.		
6.	What are the performance levels of availability and reliability of the asset management centre system? (e.g., is it operating 7 days a week, 24 hours per day, required shutdowns for maintenance)		
7.	What software applications and analytic tools are used for monitoring, data analysis, fault detection, and diagnostics?		
8.	What telecommunication infrastructure specifications is required for the asset management centre system?		
9.	What type of infrastructure is required for hosting the system used in the asset management centre?		
10.	Where is the data stored, and what measures are taken for data backup and security?		
11.	How is the data access control achieved in the asset management centre?		
12.	How does the asset management centre system handle bad data/missing information, what rules need to be in place and what is the impact of this on modelling/analytics? Is there a data quality tool from the data sources being used? Are reports generated to track completeness and accuracy of asset data?		
13.	How frequent is the data updated in the asset management centre system from all the data sources?		
14.	What reporting and alerting mechanisms are used for real-time alerts and notifications from the asset management centre system?		
15.	Provide details on the asset management centre system ability to prioritize faults and provide real-time alerts and notifications to different stakeholders.		
16.	How does the centre track asset condition deterioration and initiate corrective work for assets?		
17.	What are the backup disaster recovery and business continuity plan for the centre?		

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18.	How does the centre collaborate and support other departments to optimize asset performance? (e.g., Engineering, Asset Investment Planning)																
19.	What key performance indicators does the centre report on?																
	Data Sources																
20.	Which systems/tools are used to gather and provide all the real time and non-real time data from assets, how is the integration achieved on these systems/tools?																
21.	What online devices and sensors are typically used for remote monitoring by the system? (e.g., online Dissolve Gas Analyser)																
22.	How does the centre monitor data from advanced fire information systems and situational awareness system?																
23.	Has your asset management centre system been used to incorporate new data streams from advanced technologies, like Remote Piloted Aircraft System (RPAS), robotics or other new data streams which may emerge? Which ones and how was this achieved?																
	Staffing Resource																
24.	What is the required skills and staff composition to operate and manage a typical asset management centre?																
25.	What are the minimum qualifications and skills level required for main roles of the staff needed in the centre?																
	Implementation/Execution																
26.	Provide a detailed breakdown of costs for setting up the centre for a Transmission electric utility centre which approximately in size has 20 substations, 60 power transformers 30000km overhead lines and 250 protection schemes. (Please include assumptions as required)																
27.	Provide details on how long it took to set up a centralised asset management centre for a Transmission electricity utility with an approximately in size to 20 substations, 60 power transformers 30000km overhead lines and 250 protection schemes. Please populate the duration in the below.																
	<table border="1"> <thead> <tr> <th>Phase</th> <th>Pre-project planning</th> <th>Concept Design</th> <th>Detailed design</th> <th>Execution</th> <th>Commissioning and Handover</th> <th>Post Project support</th> </tr> </thead> <tbody> <tr> <td>Duration (Months)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Phase	Pre-project planning	Concept Design	Detailed design	Execution	Commissioning and Handover	Post Project support	Duration (Months)								
Phase	Pre-project planning	Concept Design	Detailed design	Execution	Commissioning and Handover	Post Project support											
Duration (Months)																	
28.	What type of information is expected from Eskom in order to construct a credible bid by the supplier/Tender?																

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Yours faithfully

Name	Designation	Signature	Date
Telephone number		Fax and/or e-mail address	

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