
	Request for Information (RFI)	Document Identifier	240-72663051	Rev	4	
		Effective Date	17 June 2025			
		Review Date	June 2030			
		RFI Number	E2664CXMWP			

PART A REQUEST FOR INFORMATION (RFI) - E2664CXMWP			
Description of the works/goods/services	Automation Solutions for Transformer Oil Testing at Rosherville Laboratory		
Deadline for submission	07 May 2026	At (South African Standard Time)	10h00
Tender Office address	Tenders are uploaded via Eskom Tender bulletin site on the Eskom E- tendering page.		
Enquiries – Representative	Letsibogo Mahlatji MahlatLN@eskom.co.za		
RFI are to be submitted electronically via Eskom E- tendering site by the stipulated closing date and time. Please note it is the responsibility of the supplier to ensure that RFI submission is submitted before the closing date and time	Tenders are uploaded via Eskom Tender bulletin site on the Eskom E- tendering page.		
Electronic Submission of RFI	<p>The tenderer must upload the tender via Eskom Tender bulletin site on the Eskom E- tendering page.</p> <p>All documents need to be submitted in a PDF and Excel format (The upload size per document is 500 megabytes and total submission is restricted to 4 gigabytes).</p> <p>No Zip/condense files can be uploaded No hard copy will be accepted</p> <p>If for some reason you resubmit your RFI, then the latest version of the RFI submitted will only be accepted and all previous submission/s will be null and void.</p> <p>Please ensure that the submission status is indicated as complete.</p> <p>Supplier Help Manual guide and video can be found on Eskom E- Tendering page</p>		
E-tendering Help Manual for supplier	E-tendering Help Manual attached		

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Eskom Holdings SOC Ltd (“Eskom”) invites you to submit an:

- **Request for information (RFI)** to submit information for the works/goods/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 Automation Solutions for Transformer Oil Testing at Rosherville Laboratory. Eskom may request indicative prices if so, stated in this RFI.

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




Shamani Padayachee

Corporate Procurement Manager

Date: 23 April 2026

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- B-BBEE Document** –
- means Broad-Based Black Economic Empowerment.
 - this document which outlines the requirements of Eskom’s further deliberation and development of Oil in water removal by a suitable technology
- ERIC** –
- Eskom Research and Innovation Centre that is located at Lower Germiston Road, Rosherville, Gauteng.
- Procurement Process** –
- Means the procurement process being conducted in terms of this RFI inspect of the Project or requested information.
- RT&D Respondent** –
- Research, Testing and Development, a business unit in Eskom. any entity or consortium that submits a Response to this Document.
- State Owned Company or SOC** –
- a legal entity that is or has previously been created by the Government in order to partake in commercial activities on the Government's behalf, where in the context of the Project, such entity may include any entity with a mandate to engage in the energy or financing sector

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1. Background Information

Eskom's Rosherville Oil Laboratory is initiating a strategic project to automate its analytical testing processes for transformer oil, a critical activity for monitoring the health and integrity of Eskom's electricity transmission and distribution assets. The laboratory currently performs a suite of standard tests manually. We are issuing this Request for Information (RFI) to gather detailed inputs from the market on available robotics, automation, and integrated laboratory information management system (LIMS) solutions. The information received will be used to develop a comprehensive project plan, including a detailed scope of work, technical specifications, and a realistic implementation timeline for a future formal procurement process.

2. Description of Service/ product that needs to be provided (Use high level and short text format), and if necessary, add a spreadsheet.

Responses are required for the automation of the following eight (8) key transformer oil tests. For each test, suppliers must describe the proposed automated instrumentation and integration approach without specifying makes or models:

- **Dissolved Gas Analysis (DGA)**

Instrumentation: Automated gas chromatography system with headspace sampler, flame ionization detector (FID), and thermal conductivity detector (TCD).

- **Moisture (Water Content)**

Instrumentation: Automated Karl Fischer titrator with oven or vaporizer module for solid/liquid sample introduction.

- **Acidity (Neutralization Number)**

Instrumentation: Automated potentiometric titration system with robotic sample handling and solvent dispensing.

- **Dielectric Strength (Breakdown Voltage)**


Instrumentation: Automated dielectric strength tester with electrode system, stirring mechanism, and voltage ramp control.

- **Colour**

Instrumentation: Automated colorimeter or spectrophotometer with flow-through cell and calibration standards.

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- **Interfacial Tension (IFT)**

Instrumentation: Automated tensiometer with pendant drop or du Noüy ring method and temperature control.

- **Sludge Content**

Instrumentation: Automated centrifuge system coupled with solvent handling and residue quantification capability.

- **Tan Delta (Dielectric Dissipation Factor)**

Instrumentation: Automated precision capacitance and dissipation factor test system with temperature-controlled test cell.

Suppliers must provide information on integrated robotic systems for sample preparation and movement, automated analysers for each test method, and seamless integration with a Laboratory Information Management System (LIMS).

3. Motivation

To develop a detailed, feasible, and cost-effective master project plan for laboratory automation. Current manual processes limit capacity, introduce variability, and hinder scalability. Automation is essential for future compliance, safety standards, and operational efficiency.

4. Benefits to Eskom

- Informed Planning: Enables creation of a precise scope, technical specs, and accurate budget.
- Risk Mitigation: Identifies potential technical challenges and market capabilities early.
- Efficiency: Lays the groundwork for a future project that will increase lab throughput, data quality, and staff safety


5. Scope of work/supply

The RFI response must include, but not be limited to:

- Supplier capability and relevant project experience.
- Proposed technical approach for automating each listed test.
- Indicative high-level system architecture (robotics and analytical instruments).
- Estimated project timeline from design to commissioning.
- Indicative cost range (CAPEX & OPEX) for budgetary planning.

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6. Specification of Product or Goods

The future solution must automate the eight listed tests, integrate with a LIMS, and include all necessary hardware, software, and commissioning services. Full technical specifications will be developed based on RFI responses.

7. Materials and/or facilities

Eskom, the Employer, will provide:

- Access to facilities as and when required

8. Insurance (Forward Cover) / Foreign exchange

- Not applicable

9. Transfer of rights


- Not applicable

10. Transfer of skills

- Not applicable

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PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	Date	
Attention	Letsibogo Mahlatji		
Tel no		Fax no and /or e-mail address	
From		Address	
Address			
Sender			
Description of the works/goods/services	Automation Solutions for Transformer Oil Testing at Rosherville Laboratory		

Please find below our response to Eskom's questions:

No.	Question	Please indicate your response in this column
1.	Name of the Respondent	
2.	The name and contact details of the person appointed by the Respondent as its representative in the event that Eskom needs to contact the company for clarification or further details.	
3.	Company profile and description of key service offerings and capacities.	
4.	Is the respondent/company an existing registered Eskom vendor? (Please provide vendor registration details)	
5.	Provide details on respondent/Company empowerment, localization credentials (Black Youth & Women Owned Enterprise, BBBEE Enterprise etc.)	

Yours faithfully

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

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