

 <b>Eskom</b>	<b>Expression of Interest (EOI) Template</b>	<b>Document Identifier</b>	240-72663051	<b>Rev</b>	1
		<b>Effective Date</b>	October 2022		
		<b>Review Date</b>	October 2027		
		<b>EOI Number</b>	MWP2309CX		

<b>PART A</b> <b>REQUEST FOR AN EXPRESSION OF INTEREST (EOI)</b>			
<b>Description of the works/goods/services</b>	Perform A Pre-Engineering Study on Supply, Delivery and Implementing of Robotics to Fully Automate the Process of Monthly Analyses of In-Service Lubricating Oils at the Oil Laboratory at Rossherville.		
<b>Deadline for submission</b>	24 January 2024	<b>At (South African Standard Time)</b>	10h00
<b>Tender Office address</b>	Eskom Megawatt Park Megawatt Park Tender Office Retail Centre 1 Maxwell Drive Sunninghill 2000		

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

- **Expression of interest (EOI)** to indicate your interest in the works/goods/services as stated in the table above;

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

Zekhaya Nzima

[NzimaZZ@eskom.co.za](mailto:NzimaZZ@eskom.co.za)

We look forward to receipt of your response.

Yours faithfully

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Damela Mathetja	Procurement Manager		14/11/2023

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**PART B**  
**RESPONSE SHEET IN TERMS OF A REQUEST FOR AN EXPRESSION OF INTEREST**  
**To be completed by the supplier**

<b>To</b>	Eskom Holdings SOC Ltd	<b>Date</b>	<b>09 November 2023</b>
<b>Attention</b>	Zekhaya Nzima Snr Advisor Procurement		
<b>Tel no:</b>	011 516 7042	<b>E-mail address</b>	<b>NzimaZZ@eskom.co.za</b>
<b>From</b> Insert the registered full legal name of the company		<b>Address</b> Insert the business address of the company	
<b>Address</b> Insert the physical address of the company			
<b>Sender</b> Insert the full name of the sender at the company			
<b>Description of the works/goods/services</b>	<b>Perform A Pre-Engineering Study on Supply, Delivery and Implementing of Robotics To Fully Automate The Process of Monthly Analyses of In-Service Lubricating Oils At The Oil Laboratory At Rosherville.</b>		

**1. Background:**

A need arose at Oil Laboratory of Petroleum Sciences (PS) at Eskom Research and Innovation Centre to automate the process of performing monthly tests on lubricating oil and hydraulic fluid due to limited resources available to perform the required tests only one resource is available. Monthly monitoring of lubricating oils is a critical process which enables Eskom to optimise operational stability by performing pro-active maintenance on critical assets such as turbines, hydraulic governing systems, gearboxes that drive for example, conveyor belts.

By responding to the questions in this document interest is expressed/ or not to construct a pre-engineering plan for the following:

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To fully automate the monthly test suite that are as per Eskom In-Service Monitoring of Lubricating Oils and Hydraulic Fluids (240-83797737) guide by digitising, digitalising and implementing robotics to better utilise the available resources.

The test routine to be automated includes the following tests as required for monthly analysis of lubricating oils and hydraulic fluids:

- Viscosity (Cannon Viscometer CAV-2200)
- Acidity by Potentiometric Titration (Mettler Toledo T50)
- Elemental Analysis (RDE-AES Spectroil Q100 MiniLab)
- PQ (Kittiwake Analex PQL AS-K18135-KW)
- Water Content (Mettler Toledo KF-Stromboli)
- Particle Count (PAMAS & LaserNet Fines)

Number of samples expected per month: 1000 samples to be expanded to 3000.

Full use must be made of existing infrastructure as far as possible and integration with existing LIMS is paramount. Where existing infrastructure is inadequate or require replacement, recommendations and specifications need to be included as part of the plan.

## 2. Requirements

Suppliers are to respond to Part B and Eskom's Questions in this report. The Eskom technical team will evaluate the submissions following the Commercial process.

## 3. Format, Method, and place of delivery

Format of Submission

The response must be submitted as 1 (one) printed original RFI, plus 1 (one) printed copy.

## 4. Method and place of delivery

All responses must be sealed and delivered before the closing date and time to the tender box located at:

Eskom Megawatt Park  
Tender Office  
Retail Centre  
1 Maxwell Drive  
Sunninghill  
2000

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**5. Please find below our response to Eskom's questions:**

<b>No.</b>	<b>Question</b>	<b>Please indicate your response in this column</b>
1.	<b>Your contact name and contact details</b>	
2.	<b>Company registration number</b>	
3.	<b>Brief description of previous experience and Description of the solution that you can offer</b>	
4.	<b>Indicative prices (optional and only for use of RFI's)</b>	N/A
5.	<b>a. Does your company (or subsidiary) have the required expertise to construct robotics for testing laboratories as a turnkey solution?</b>  <b>b. Indicate how many years of experience do you have to fully automate laboratories by introduction of robotics.</b>	

Yours faithfully

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Zekhaya Nzima	Snr Advisor Procurement		13/11/2023
<b>Telephone number</b>	+27 11 516 7042	<b>Fax and/or e-mail address</b>	NzimaZZ@eskom.co.za

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