	Request for Information (RFI)	Template Identifier	240-72663051	Rev	1
		Document Identifier	N/A	Rev	N/A
		Effective Date	01 August 2016		
		Review Date	September 2022		
		RFI No.	MWP1404CX-R		

PART A REQUEST FOR INFORMATION (RFI)			
Description of the works/goods/services	Request for information on commercially available technologies that can detect and locate partial discharge activity in power transformers relative to the dimensions of the transformer, using the acoustic emission technique.		
Deadline for submission	24 January 2023	At (South African Standard Time)	10h00
Tender Office address	Retail Centre Megawatt Park 1 Maxwell Drive Sunninghill 2000		

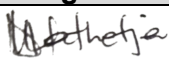
Eskom Holdings SOC Ltd ("Eskom") invites you to submit an:

- **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 Request for Information on Commercially Available Partial Discharge Detecting and Locating Technologies for Large Power Transformers (generator step-up transformers, substation transformers) Relative to the Dimensions of the Transformer, using the Acoustic Emission Technique. 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

Name	Designation	Signature	Date
Damela Mathetja	Procurement Manager		17 Oct 2022
Telephone number	011 800 5611	Fax and/or e-mail address	

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## 1. BACKGROUND INFORMATION

Eskom has a large power transformer fleet across Generation, Transmission and Distribution, and is seeking acoustic emission partial discharge detecting and locating technologies that will ensure early fault location and detection within the fleet.

Eskom is requesting information on commercially available technologies that can detect and locate partial discharge activity in power transformers (generator step-up transformers, substation transformers) relative to the dimensions of the transformer, using the acoustic emission technique.

## 2. OBJECTIVE OF THE RFI

The technology will aim to deliver on the following:

- Faster and earlier fault identification and location in Eskom's power transformer fleet.
- Faster fault identification and location resulting in focussed and less time consuming repair, effectively reducing the downtime of a transformer and the associated revenue loss.
- Guiding management and engineering staff decision making on operational transformers where the transformer operation can impact the safety of employees, and Eskom plant.

## METHOD AND PLACE OF DELIVERY

**All the responses must be sealed and be delivered at the tender box located at the following:**

THE TENDER OFFICE  
Eskom Megawatt Park Tender office  
Northside (Retail Centre)  
Maxwell Drive  
Sunninghill

**All RFI responses must be clearly marked:** "MWP1404CX Demonstration of the Acoustic Emission PD Testing Technique for Implementation in Gx, Tx and Dx."


## FORMAT OF SUBMISSION

**The respondent shall be submitted as 1 (one) printed original RFI, 1 (one) printed copy, plus 1 USB of the submission.**

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<b>PART B</b> <b>RESPONSE SHEET IN TERMS OF A REQUEST FOR AN EXPRESSION OF INTEREST /REQUEST FOR INFORMATION</b> <b>To be completed by the supplier</b>			
<b>To</b>	Eskom Holdings SOC Ltd	<b>Date</b>	<b>19 October 2022</b>
<b>Attention</b>	Zekhaya Nzima		
<b>Tel no</b>	011 516 7042	<b>E-mail address</b>	NzimaZZ@eskom.co.za
<b>From</b>		<b>Address</b>	
<b>Address</b>			
<b>Sender</b>			
<b>Description of the works/goods/services</b>			

Please find below our response to Eskom's questions:


**Table A:**

No.	Question	Please indicate your response in this column
1.	Local Agent/Supplier & Original Equipment Manufacturer - Company name, registration number, contact name and details	
2.	Equipment Name	
3.	Equipment Description	
4.	Equipment Specifications	
5.	Equipment Testing Procedure	
6.	Parameters Measured	

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7.	Years on the Market	
8.	Expected Life Cycle Interventions and Associated Life Cycle Costs	
9.	Maintenance Requirements (Frequency, indicate whether local or international, and associated costs)	
10.	Calibration Requirements (Frequency, indicate whether local or international availability, and associated costs)	
11.	Repair Requirements (Local or International availability, and associated costs)	
12.	Spares Availability (Local or International availability, and associated costs)	
13.	Training Requirements (on use of equipment, testing and interpretation of results, whether training offered locally or internationally, engineering skill level, number of training interventions required, and associated costs)	
14.	PLEASE PROVIDE THE DETAILS OF WHERE THE EQUIPMENT HAS BEEN USED LOCALLY OR INTERNATIONALLY. THE INFORMATION REQUIRED IS COMPULSORY AND TO INCLUDE, INTER ALIA, THE FOLLOWING:	
14.1	Country & Utility/Company Name	
14.2	Period Used (Dates)	
14.3	Transformer Application (Generator Step-up Transformers, Substation Transformers).	
14.4	Transformer Voltage	
14.5	Transformer Rated Power	
14.6	Case Studies Based on Product Usage described in 14.1 – 14.5	
15.	Applicable Standards of the Equipment	

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16.	Cost of the Equipment	

Yours faithfully

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

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