PART A REQUEST FOR INFORMATION (RFI)			
Description of the works/goods/services	Request for Information for Low Voltage Compensation Devices		
Deadline for submission	01 September 2023	**At (South African Standard Time)**	10h00
Tender Office address	Eskom Megawatt Park Megawatt Park Tender Office Retail Centre 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 for Low Voltage Compensation Devices. 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.

Nicole Moila

BrooksNM@eskom.co.za

011 709 3755

We look forward to receipt of your response.

Yours faithfully

Name	Designation	Signature	Date
Damela Mathetja	Procurement Manager		27 Jul 2023

PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	**Date** Insert today's date	
Attention	Nicole Moila Officer Procurement		
Tel no Insert your tel number		**Fax no and /or e-mail address** Insert your fax number and/or e-mail address	
From Insert the registered full legal name of the company		**Address** Insert the business address of the company	
Address Insert the physical address of the company			
Sender Insert the full name of the sender at the company			
Description of the works/goods/services	The supplier or manufactory of low voltage compensation will need to provide information on technologies or devices available to mitigate the voltage violation and operation challenges experienced due to high penetration of renewables or photovoltaic (PV). These should be at low voltages. **Product Technical Information** The specification information/data provided about the devices or systems should include, but is not limited to, the following: **1. Technical Specification: Low Voltage Compensation Technologies/ Devices** 1.1 Description of operation function of the device. 1.2 Level of Low voltage at the installation (1000V and below).		

2. Record of Installations

The supplier shall provide detailed record of current and previous 5 years installation of Low Voltage Compensation Technologies

Years of Installation	Utility Name and Country	Voltage(V) of Installation	Problem solved	Details of contact person (Name, email, and telephone)

3. Installation and commission of Low Voltage Compensation Technologies

The supplier shall indicate any installation and commission of the Low Voltage Compensation Technologies if done.

1. Background/Current state

The electrical distribution network is responsible for delivering electricity to end-users at medium-voltage and low-voltage levels in rural and urban areas. Combustion of fossil fuel as a result of electricity generation and deforestation has caused the increase in carbon dioxide in the atmosphere. There is also a sharp rise of other gases due to presence of human beings' activities such as methane and nitrous oxide within the atmosphere. The presence of these greenhouse gases has a detrimental effect to life. They absorb the radiated gases from the earth and radiate it back to the environment.

As part of the mitigation factors to combat the rise of greenhouse gases, greening in the form of generating power from renewable energy remains one of the alternatives available as opposed to combustion from coal plants. As a result, there is significant penetration of embedded generators at the level of low voltages in the form of Photovoltaic technology (PV). This has changed the landscape at that level given the number of challenges they pose on the system, particularly at the low voltage (LV)level in terms of operation, planning and design.

As and when the technology gets deployed, the electrical system is subjected to voltage challenges that will require proper regulation in ensuring that the system is operated efficiently at the desired level as prescribed by the operating standards. This in turn will require cost effective and efficient technology available on the market to be deployed in mitigating the challenges that will be encountered

2. Requirements

Suppliers are to respond to Sections A1 and A2 in the Appendices of 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**.

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

Please find below our response to Eskom's questions:

No.	Question	Please indicate your response in this column
1.	**Your contact name and contact details**	
2.	**Company registration number**	
3.	**Brief description of previous experience and Description of the solution that you can offer**	
4.	**Indicative prices (optional and only for use of RFI's)**	
5.	At what stage of development is the device (e.g., still a concept, in the laboratory stage, commercially available)?	
6.	Description of operation of the device.	

7.	Please provide the details of where the device has been used in practical installations. The information to include, inter alia, the following: • Year of installation. • Level of Low voltage at the installation (1000V and below). • Sizing of the device. • Cost of the device. • Detailed discussion of the problem that the device was to solve. • Why the device was selected as the preferred technology. • Availability of models for the device e.g., Retic Master and/or Power Factory. • Training required to gain competence in planning studies by Eskom employees to be provided by the supplier.	

Yours faithfully

Name	Designation	Signature	Date
Nicole Moila	Officer Procurement		
Telephone number	011 709 3755	**Fax and/or e-mail address**	BrooksNM@eskom.co.za