

	<b>Request for Information (RFI)</b>	<b>Template Identifier</b>	240-72663051	<b>Rev</b>	1	
		<b>Document Identifier</b>	N/A	<b>Rev</b>	N/A	
		<b>Effective Date</b>	01 August 2016			
		<b>Review Date</b>	September 2022			
		<b>RFI No.</b>	<b>MWP2422CX</b>			

<b>PART A REQUEST FOR INFORMATION(RFI)</b>			
<b>Description of the works/goods/services</b>	<b>Request for information for the Supply of used/surplus bottoming cycle, and gas conditioning plant for combined cycle operation</b>		
<b>Deadline for submission</b>	<b>14 March 2024</b>	<b>At (South African Standard Time)</b>	<b>10H00</b>
<b>Tender Office address</b>	<b>Eskom Holdings SOC Limited Megawatt Park Tender Office – Northside Maxwell Drive Sunninghill RFI Number: MWP2422CX</b>		

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

**Request for information (RFI)** 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 possible supply of used, or surplus, bottoming cycle plant (Diverter dampers, Heat Recovery Steam Generators (HRSG), Steam Turbine, Feed Pumps and Condensing Plant) for converting V94.2 Siemens E Class Units (circa 147-148MW) to Combined Cycle Operation. Eskom may request indicative prices if 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

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Hector Mabaso	Acting Manager Procurement		06 February 2024
<b>Telephone number</b>	013 693 4390	<b>Fax and/or e-mail address</b>	mabasoh@gmail.com

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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			
Tel no		Fax no and /or e-mail address	
From		Address	
Address			
Sender			
Description of the works/goods/services			

Please find below our response to Eskom's questions:

## 1. INTRODUCTION

Eskom is currently considering the use of previously used (or surplus) bottoming cycle plant (which includes inter alia diverter dampers, heat recovery steam generators (HRSG), steam turbines, feed pumps, condensing plant, and other associated balance of plant (electrical/C&I and mechanicals) that will be compatible with Siemens V94.2 (E-Class 147-148MW units). The intent is to consider the conversion of four open cycle gas turbines to combined cycle in 2X1 configuration (i.e. two gas turbines to one steam turbine). The supplied bottoming cycle plant must be compatible with the desired combined cycle configuration, and still be able to produce an optimal power output whilst being able to display a high reliability and availability.

In addition to the bottoming plant Eskom is also looking for new/surplus/previously used gas conditioning plant that can clean shipped LNG to the V94.2 OEM gas specification. This plant will support four open cycle gas turbines operating in combined cycle with an additional gas turbine operating as a peaker.

## 2. SCOPE OF THE RFI

The scope of this RFI is as follows:

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- a) To provide details on the condition and availability of used/surplus bottoming cycle plant (which includes inter alia diverter dampers, heat recovery steam generators (HRSG), steam turbines, feed pumps, condensing plant, and other associated balance of plant that will be compatible with Siemens V94.2 open cycle gas turbine (OCGT).
- b) To provide details on where the previously used bottoming cycle components are located, including their operating history, and associated technical details (such as equipment ratings, process flow diagrams, footprint etc.)
- c) To provide details on whether the proposed plant have been subjected to failures, warranty claims, or previous defects followed by any refurbishment.
- d) To provide maintenance records, performance data, and details around operational hours, year of component manufacture/date of commercial operation, and any other data from the plant operational history.
- e) To provide details on the fuel used to create the hot gas stream for the HRSG, with specific focus on any issues/impact on the HRSG.

### 3. SUBMISSION GUIDELINES

#### 3.1 Method of submission

Each envelope / file of the RFI shall be addressed to *Eskom* and delivered as follows:

Interested companies may obtain further information from Prince Ndima via email address [ndimapx@eskom.co.za](mailto:ndimapx@eskom.co.za) during working hours (0800hrs to 1600hrs) South African local time, Mondays to Fridays inclusive, except on Public Holidays and weekends.

RFI documents must be delivered in a written form to the below address on or before 10:00AM South African Standard Time (SAST) i.e. GMT+2 hours on Thursday, 14 March 2024.

Late submissions and RFIs not in English language will not be accepted.

Interested parties are required to submit their documents to the physical address below. The submissions can be in hard copy as one (1) original and one (1) copy. Submissions envelopes need to be clearly marked "Request for information for the Supply of used gas turbine units with low operating hours".

**Eskom Holdings SOC Limited**  
**Megawatt Park**  
**Tender Office – Northside**  
**Maxwell Drive**  
**Sunninghill**  
**RFI Enquiry Number: MWP2422CX**

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Attention: Prince Ndimma  
Senior Advisor Procurement  
Email: [ndimapx@eskom.co.za](mailto:ndimapx@eskom.co.za)

**RFI Enquiry Number: MWP2422CX**  
**Closing Date and Time: 14 March 2024 @10h00**

Submit One (1) original RFI document plus One (1) complete hard copy of the RFI document including memory stick.

**Tenderers shall ensure all precautionary measures to prevent the spread of Covid 19 virus as issued by the Department of Health or as prescribed by the Disaster Management Act and other relevant authorities are undertaken when RFI responses or other documents are transported and delivered at Eskom Megawatt Park Tender Office.**

All RFI returnables/documentation must be submitted to the aforementioned address.

Requests for Clarifications must be sent in writing to the respective procurement practitioner at [ndimapx@eskom.co.za](mailto:ndimapx@eskom.co.za)

### 3.2 Important Notes

- 3.2.1 Due to the specific need that this RFI process has to fulfil, Eskom wishes to clarify that this invitation is not intended to impede, amend or replace any current or future procurement process that Eskom has engaged in or will engage in.
- 3.2.2 Eskom reserves the right, in its absolute discretion, at any stage and without notice, to terminate further participation in the process by any Party, to select or disqualify any interested participant from further engagement, to amend and/or terminate this RFI process or any future process pursuant to this process.
- 3.2.3 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 natural gas sourcing procurement and contracting strategy.
- 3.2.4 Any and/or all information submitted by any and/or all respondents may be used in the development of this intended solution, without the necessity of acknowledging the source, and without such entity gaining any rights in respect of such a solution, including but not limited to any intellectual property rights.
- 3.2.5 No portion of any of the information submitted will be treated as confidential and respondents should NOT submit sensitive or confidential information. The intention is to

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gather broad and general information to inform the way forward on more concrete processes and indicative prices.

- 3.2.6 Any information provided pursuant to this RFI process and any subsequent processes and/or engagement is not confidential, but Eskom will use the information only in the course of its process of developing procurement and contracting strategy for sourcing natural gas. Through making a submission a respondent accept the terms and conditions which governs this process.
- 3.2.7 All participants responding to this RFI process need to ensure that they have received all information and remain solely responsible for satisfying themselves as to the information required in responding hereto and are fully responsible for all costs incurred in relation hereto and under no circumstances will any resultant cost be borne by Eskom.
- 3.2.8 This RFI is an investigation into the potential suppliers, goods, works, services, and indicative pricing available in the market and does not constitute a competitive enquiry therefore will not be used directly as a basis for placing a contract or an order.

#### 4. REQUEST FOR INFORMATION QUESTIONNAIRE

No.	Question	Please indicate your response in this column
	<b>Used Bottoming Cycle Plant</b>	
1.	Provide past your experience in the supply of used, or surplus bottoming cycle plant (or components of bottoming cycle plant). a) Specify the number of years and to which sites, both in South Africa and internationally, that your plant was supplied to.	
2.	Please provide maintenance records and clearly state if any damage exists on the available bottoming cycle plant (specifying individual components if applicable with concomitant detail). Furthermore, state if any of the OEM parts have been replaced with non-OEM parts during Minors/Majors and provide a list of such items if applicable. Please supply details on any warranty claims or defects (on commissioning or during operation) that were noted.	
3.	For the available bottoming plant please provide verifiable evidence of recorded operating hours, and a process design that proves compatibility with the 4 V94.2 units that will operate in 2X1 combined cycle configuration. Additional data	

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	such as thermal efficiency, heat rate and power output on the steam turbine shaft must be appended to a process flow diagram for verification by Eskom. There must be sufficient information that will allow Eskom to perform a heat balance, or a heat balance can be supplied as well for review by Eskom.	
4.	For the available used/surplus bottoming cycle plant, please provide timelines for units to be shipped to South Africa and be available for retrofit to the Siemens V94.2 units.	
5.	In the event that both the used/surplus open cycle gas turbine and bottoming cycle is available as a complete unit, please complete details as required on RFI <b>MWP2409CX</b> separately for the gas turbine.	
6.	Please provide indicative costs for the available bottoming cycle plant and delineate items (which includes inter alia diverter dampers, heat recovery steam generators (HRSG), steam turbines, feed pumps, condensing plant, and other associated balance of plant (electrical/C&I and mechanicals) with associated costs in ZAR.	
<b>Used/New Gas Conditioning Plant</b>		
1.	Please indicate if you have access to used/new/surplus gas conditioning plant (with all associated electrical, and control and instrumentation equipment) to condition gas from shipped LNG specification to Siemens V94.2 specification. The proposed equipment must be compatible for operation with V94.2 OCGTS (with 4 units operating in combined cycle and 1 unit in peaking mode)	
2.	For the gas conditioning plant, please supply a process design that shows that the plant proposed will indeed be able to meet the V94.2 required gas specification and, also meet the required pressure and temperature required by the V94.2 combustors post conditioning. It must be clearly stated if gas compression is required or not, and, also whether a used/new gas compressor is available.	
3.	Please provide indicative costs for the new/used gas conditioning plant and delineate items with associated costs in ZAR.	

Yours faithfully

Name	Designation	Signature	Date
Prince Ndima	Senior Advisor Procurement		06 February 2024
Telephone number	017 827 8209	Fax and/or e-mail address	ndimapx@gmail.com

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