

	<b>Request for Information (RFI) Template</b>	<b>Document Identifier</b>	240-72663051	<b>Rev</b>	2	
		<b>Effective Date</b>	14 March 2025			
		<b>Review Date</b>	March 2030			
		<b>RFI Number</b>	KBG2576			

<b>PART A REQUEST FOR INFORMATION (RFI)</b>			
<b>Description of the works/goods/services</b>	<p>Eskom Koeberg Nuclear Power station invites for a Request for Information (RFI) for the Containment Concrete Repairs of Building Unit 1 &amp; 2 and the installation of Impressed Current Cathodic Protection (ICCP) system.</p> <p>The RFI is intended to provide comprehensive market research in terms of potential suppliers, full information on the cost of the project and potential localisation and subcontracting possibilities.</p> <p><b>Quality requirements:</b> The quality and safety level assigned to the scope of work is as follows:</p> <ul style="list-style-type: none"> <li>• Q2/L3 for the Service</li> <li>• Q3/L3 for the parts</li> </ul> <p>The quality specification assigned for the Services and for the Parts to be procured is 238-103 Rev. 3 Supplier Quality General Requirements. Refer Annexure A</p> <p>The applicable CIDB level for this contract is estimated at 9CE or 9EB potentially emerging.</p> <p><b>The following is requested from the market:</b></p> <ol style="list-style-type: none"> <li>1. ICCP system compliant (ISO 12696 and ISO 15257).</li> <li>2. Provide proof of previous projects where ICCP was applied on pre-stressed post-tensioned concrete structures, on a large scale and considerable height (&gt;20 m).</li> <li>3. Provide project costs (indicating local and international percentages) and durations of the above.</li> <li>4. Complete the Supply Chain and Transformation Tool (SCATT) attached herein to provide the anticipated local value add and localisation opportunities for South African industry in the supply value chain of the casks. Refer Annexure B</li> </ol> <p><b>NB:</b> Post RFI closing all the information will be presented by the contractor, to the Eskom team to allow for further clarification.</p>		
<b>Deadline for submission</b>	26 May 2025	<b>At (South African Standard Time)</b>	10h00
<b>EOI's/RFI are to be submitted</b>	<b>The RFI are uploaded and published on Eskom Tender Bulletin, National Treasury tender website and CIDB itender.</b>		

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<b>electronically via Eskom E- tendering site by the stipulated closing date and time.</b>	
<b>Electronic Submission of RFI</b>	<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 limit is 50MB per file and total submission of 900MB per submission).</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. 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	<i>Link: <a href="http://www.eskom.co.za">www.eskom.co.za</a></i>

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## 1. Commercial Procedure

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

- Response to this Request for information (RFI) based on the information for the works/goods/services as stated in the table below. This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further deliberation and development strategy for Containment Concrete Repairs of Building Unit 1 & 2 and the installation of Impressed Current Cathodic Protection (ICCP) system.
- Eskom reserves the right to use the information gained to improve the design or specification of the solution to his need to write the specification to issue to the open market.
- Your response to this RFI will be deemed as acceptance of Eskom’s Standard Conditions of Tender and can be download from [www.eskom.co.za](http://www.eskom.co.za). The “Tender Data” as detailed herein shall take precedence over the Standard Conditions of Tender in the event of any ambiguity or inconsistency between the two documents.
- Eskom reserved the right to cancel the RFI process at any time prior to entering into any contract that may result from this process and will not accept or incur any liability for such cancellation.
- Eskom is not bound to accept any of the submissions, nor give reasons for any decisions in this respect.
- The information provided below may be used when going out on enquiry for a request for proposal or a quotation.
- Please note that this enquiry is not a Request for Quotation/Proposal but a Request for Information only and therefore non-committal and does not constitute a guarantee of business or an agreement to negotiate a binding agreement.
- Due to the specific need that this RFI has to fulfil, Eskom wished 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.
- The RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further decisions. No respondent, through submission of information will gain any right to participate in any further process and participate herein on a basis that it is providing information voluntarily to strengthen a potentially beneficial process for all stakeholders. In addition, no participant shall be prevented or excluded from participation in the bidding process due to submission of information in response to this RFI.
  - 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 for a strategy.
  - Through making a submission, a respondent accepts the terms and conditions which govern this process.

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- 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.
- Eskom reserves the right not to proceed with any further engagements on the requirements presented.
- Please complete the attached Acknowledgement Form and return it by e-mail as indicated on the form within 3 days of receiving this invitation.
- Eskom has delegated the responsibility for this RFI to the signatory of this document, whose details can be found below. Eskom Representative, attention Ms. Sharon Nyobole at [NyobolS@eskom.co.za](mailto:NyobolS@eskom.co.za)

Yours faithfully

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Sharon Nyobole	Senior Advisor Procurement		2025-05-08
<b>Telephone number</b>	0215221173	<b>Fax and/or e-mail address</b>	nyobols@eskom.co.za

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### 1.1. RFI Timetable

Item	Action	Date
1	RFI issue date	8 May 2025
2	Submit acknowledgement form with the intent to submit a response	16 May 2025
3	Closing date to submit clarification questions	16 May 2025
4	RFI closing date and time	26 May 2025
5	Post RFI closing, present information to the Eskom team to allow for a clarification (if necessary)	19 June 2025

### 1.2. Response Format

All submitted responses must contain all the required information including all RFI forms, duly completed in accordance herewith. The Respondents must submit their submission as follow:

- 1 x Electronic Copy of RFI

All submitted responses must be typed in the English language, should contain all the required information including all RFI forms, duly completed in accordance herewith. An original signed version file must be submitted and comprise of a complete RFI.

### 1.3. Clarification Requests

At post RFI closing, respondents will be requested to present information to the Eskom team to allow for further clarification. The clarification session will be scheduled as per section 1.1 above via a virtual platform using Teams. A link will be sent out to all respondents.

### 1.4. Cost of Submission

The RFI submission is free of charge.

### 1.5. Confidentiality

Any information disclosed pursuant to this RFI process, and any subsequent processes and/or engagement is confidential and may not be divulged by the Respondent to any third parties. All participants responding to this RFI process accept the terms and conditions under which this process is published. Kindly complete and sign the Non-disclosure Agreement (NDA) and return with your submission document.

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## 2. Background

Koeberg Nuclear Power Station (KNPS) is situated in a marine environment adjacent to the cold Benguela current of the Atlantic Ocean, approximately 40 km north of Cape Town, South Africa. The environmental conditions at KNPS — including high humidity, proximity to the sea, temperature variations, precipitation patterns, and prevailing winds — contribute to an aggressive corrosive atmosphere, which has resulted in significant degradation of exposed structural surfaces. Since 2000, reinforced concrete structures at KNPS have exhibited pronounced signs of deterioration. Following extensive studies and investigations, chloride-induced corrosion was identified as the primary mechanism responsible for concrete delamination. Therefore, Eskom decided to develop a design of an Impressed Current Cathodic Protection (ICCP) system. The purpose of the ICCP system is to arrest further degradation due to corrosion of the reinforcing steel within the structure of the containment buildings of Koeberg Unit 1 and 2.

The objective is for:

- The current delaminated concrete to be repaired/refurbished to prepare a sound substrate for ICCP;
- The ICCP system to last and function for a minimum of 40 years from the time of installation;
- The ICCP system to have no negative impact on or consequences to the containment structure and/or buildings or associated plant equipment;
- The ICCP system to support the life extension of the plant, by removing the threat of continuously degrading steel reinforcement in the concrete of the containment buildings;
- The ICCP system to support the life extension of the plant, by preventing rebar corrosion and spalling of the concrete. Additional patch repairs may be required to support life extension.

The size and complexity of the containment structures, as well as that ICCP has never been implemented on the containment structures of nuclear plants before, requires a rigorous approach in executing the design.

## 3. Scope of Work

The scope and purpose are set out below.

### 3.1. Functional/Technical requirements

- The contractor shall supply the following service:

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### 3.1.1. Executive Scope

- Installation of ICCP system on the reinforced steel to neutralise the effects of chlorides corrosion and delamination on the containment structures with minimal maintenance. This can be done outside of outages as well as during the outage period.
- The installation of the ICCP system requires the concrete facades to be prepared to a suitable level to ensure the ICCP will function as designed (ICCP cannot be placed on delaminated concrete). Accordingly, the concrete shall be prepared by reinstating all delaminated concrete.
- Supply, manufacturing, Factory Acceptance Testing (FAT), transport, delivery of material and components, installation, testing and commissioning of the Impressed Current Cathodic Protection (ICCP) system with the associated quality control.

### 3.1.2. Detailed scope

- A 3-phase 380 V cable from the KNPS supply point to a switchboard dedicated to the ICCP system shall be provided and installed, for each containment building.
- The switchboards will supply the master control cabinets (one for each containment building), as well as several slave cabinets, with AC power. These are the system control and data acquisition components.
- The slave cabinets will contain controllable transformer rectifier units, which will then supply DC current to the different zones.
- The power supplies and control modules shall be prepared and tested in the factory, with final calibration during commissioning of the system.
- The DC power connections to each zone comprises connections to the anode and steel reinforcement for each zone, respectively.
  - Titanium connectors shall be connected in connection boxes, from which isolated copper wires <sup>1</sup>shall run to the positive terminal of the power supply. The connectors and copper wiring shall be dimensioned such as to provide uniform anode current distribution and limit potential drop in the anode circuit. Rebar connection cables will run to the junction boxes. Each zone shall have at least two anode connection points and at least two cathode (rebar) connections points, located as far part as possible within the zone from which cables run to the power supply.
  - The DC data acquisition connections to each zone will comprise connections to the reference electrodes, potential decay probes and steel reinforcement for each zone, respectively.

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<sup>1</sup> The cables commonly used for ICCP are Cross Linked Polyethylene XLPE/XLPE copper cables and the only property required is the stability and conductivity of the materials they are composed by. The cable connections are made such that they are fully encapsulated and that the copper or other corrosion vulnerable materials within the connection method will be 100% electrically isolated from the anode and environment for full life of the anode system.

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- The data control and data acquisition will also be relayed to a web-based remote monitoring application, which will allow the KNPS engineers to control and monitor the system performance and behaviour from the master control station, and monitor it from their desktop computers, via the KNPS virtual private network. Only one way communication (read-only) is allowed for monitoring.
- DC current must be impressed into the structure of the containment buildings.
- The system will get feedback from reference electrodes and other sensors of the data acquisition system, which will be positioned and embedded into the concrete structure.
- Embedded probes shall be prepared and cabled in the factory wherever possible and installed on site.
- Each containment unit must be sub-divided into 8 smaller sections, based on the structural design of the different sections. These sections include:
  - I. The containment walls (surface between the ribs);
  - II. The ribs;
  - III. The equipment airlock;
  - IV. The dome roof;
  - V. Ring beam 1;
  - VI. Ring beam 2;
  - VII. Ring beam 3; and
  - VIII. Ring beam 4.

Each section consists of multiple zones.

- Two different ICCP anode systems will be used for the different sections on the containment buildings mentioned above:
  - **Anode System 1** - This must be installed on the dome roof, ring beam 1 and a section of the equipment airlock. It consists of a conductive carbon-based coating with primary anodes and a protective overcoat.
  - **Anode System 2** – This must be installed on the walls, ribs, ring beams 2, 3 and 4 and on a section of the equipment airlock. It consists of Mixed Metal Oxide (MMO) coated Ti mesh with Ti distributors and covered by a sprayed concrete mortar overlay. The Titanium mesh shall be fixed to the original concrete walls before being covered with a 3 cm mortar overlay, incorporating expansion/hollow joints.
- The installation of the anode (Ti MMO mesh) and mortar overlay for the walls, and coating for the roof shall be done on site.
- Titanium mesh shall be connected to titanium distributors to form a continuous network. Titanium distributors shall be connected to the junction boxes via to isolated copper wires. The distributors and copper wiring shall be dimensioned such as to provide uniform anode current distribution and limit potential drop in the anode circuit. Rebar connection cables will run to the junction boxes. Each zone shall have at least two anode connection points and at least two cathode (rebar)

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connections points, located as far part as possible within the zone from which cables run to the power supply.

- Testing and calibration at commissioning and during operation
- The power supply and control system shall include, for each zone, designated test connection points for manual testing of at least:
  - DC output voltage
  - DC output current
  - Steel/concrete/reference electrode and potential decay probe potentials
  - Temperature probe measurements
    - The designated test connection points shall not require any disconnection of permanently installed cables, shall be installed inside the IP66 system cabinets and shall be clearly labelled as test points. It is preferred that they are 4mm banana plug sockets and that they are incorporated into a mimic diagram of each anode zone indicating the location and designation of each sensor.
    - The test connection points shall be used during commissioning by Level 4 and Level 3 CP personnel to calibrate the system and shall also be used during operation as part of the inspection and maintenance program to be implemented by KNPS.

#### 4. RFI Deliverable Checklist

No.	Question	Please indicate your response in this column
1.	Your contact name and contact details	Refer to Annexure A
2.	Company registration number	
3.	ICCP system compliant (ISO 12696 and ISO 15257).	
4.	Provide proof of previous projects where ICCP was applied on pre-stressed post-tensioned concrete structures, on a large scale and considerable height (>20 m).	
5.	Provide project costs (indicating local and international percentages) and durations of the projects.	
6.	Complete the Supply Chain and Transformation Tool (SCATT) attached herein to provide the anticipated local value add and localisation opportunities for South African industry in the supply value chain of the casks.	

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The submission will not be considered unless it is:

- Received on or before the closing date and time as indicated.
- Sealed and signed by person(s) duly authorised to act on behalf of your company
- Received in full.

We look forward to receipt of your response.

Yours faithfully

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Sharon Nyobole	Senior Advisor Procurement		2025-05-08
<b>Telephone number</b>	0215221173	<b>Fax and/or e-mail address</b>	nyobols@eskom.co.za

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<b>PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR AN EXPRESSION OF INTEREST/ REQUEST FOR INFORMATION To be completed by the supplier</b>			
<b>To</b>	Eskom Holdings SOC Ltd	<b>Date</b>	
<b>Attention</b>	Sharon Nyobole		
<b>Tel no</b>	021 522 1173	<b>Fax no and /or e-mail address</b>	
<b>Address</b>	Koeberg Nuclear Power Station		
<b>From</b>		<b>Fax no and /or e-mail address</b>	
<b>Address</b>			
<b>Sender details</b>			
<b>Description of the works/goods/services</b>	Containment Concrete Repairs of Building Unit 1 & 2 and the installation of Impressed Current Cathodic Protection (ICCP) system.		

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 on similar scope of work.	
4.	Provide references of clients with their contact details who have utilised similar services.	
5.	Provide unfavourable incidents experienced to date including the impact it had to the client.	

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6.	Explain the remedial actions – i.e. how was it addressed to avoid a reoccurrence.	
7.	We are interested in submitting a response in terms of Eskom’s RFI process requirements.	
8.	We have noted the deadline for the RFI submission as detailed on section 1.1 above.	
9.	We intend to submit the information in the name of the organisation listed above.	
10.	We would like to receive all further information and correspondence at our e-mail address as above.	
11.	We will be able to attend the presentation Post RFI closing to present information to the Eskom team and allow for a clarification. The clarification session will be scheduled via virtual plat form using Teams.	
12.	We have read and understood all the above and “important notes”	

Supplier has read and responded to following Annexures to the RFI:

1. Annexure A - Supplier Response Sheet – Part B
2. Annexure B - Eskom Acknowledgement Form for OHS legal & other requirements
3. Annexure C - High Risk-Tender Evaluation Template
4. Annexure D - SCATT notes
5. Annexure E -ICCP - NEW SHE SPEC 2025
6. Annexure F - KBG2576ICCP. 238-103 rev3

Yours faithfully

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

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