

PART A

REQUEST FOR INFORMATION (RFI)

**REQUEST FOR INFORMATION (RFI) FOR ELECTROLYSIS WATER TREATMENT
SYSTEM AT ARMSCOR HEAD OFFICE IN ERASMUSKLOOF, PRETORIA.**

DETAILS OF THE BIDDER	
Name of the Bidder	
Company Registration Number	
Telephone Number	
Mobile Number	
Email Address	
Physical Business Address	
Manufacturing Address	
Years of Experience in Electrolysis Water Treatment System Business	
Years of Use of the Proposed Water Treatment System	
Contact Person	
Signature	

**Both part A and B, together with the returnables requested must be
submitted electronically on or before the closing date of
Friday, 08 October 2021 at 11:00.**

Responses must only be submitted electronically to

lebor@armscor.co.za

REQUEST FOR INFORMATION – ELECTROLYSIS WATER TREATMENT SYSTEM**1. INTRODUCTION**

Armcor is considering replacing its current water treatment system with an Electrolysis Water Treatment System. The RFI is for the purpose of gaining knowledge about suppliers in the business of electrolysis water treatment systems in South Africa. Company confidential information will be held in confidence and will not be disclosed to any other parties.

2. BACKGROUND

Chiller unit, cooling towers and air handling units at Armcor Head Office building are connected to the water treatment system. Water in the cooling towers require regular treatment to ensure efficient operation of the cooling towers. Chemicals in a dosing pot traditionally used to treat the water in the cooling towers which reduces scale build-up on the cooling towers and chillers. With this treatment system one must drain the water in the cooling towers when the concentration of minerals in the water becomes too high, this process is called "blowdown".

Blowdown can be done by selecting the cycles of concentration, how many times water is circulated through the system, and then dumping the water after 4-6 cycles depending on the site water quality. Another option is to install a water monitoring system that constantly measures the mineral concentration of the water, automatically doses the water with the correct quantity of chemicals and only dumps the water if the mineral concentration is too high. A third option is to use an electrolysis process to remove the harmful minerals from the water, with this process no chemicals are used and there is no blowdown.

3. CRITICAL CONSIDERATIONS

The proposed Electrolysis Water Treatment System must be capable of the following:

- 3.1. Produce cost savings on portable water due to low or no blowdown requirements
- 3.2. Produce cost savings on chemicals that would be used for dosing
- 3.3. Prolong the lifespan of the cooling and chilling towers
- 3.4. Perform at maximum efficiency even when using borehole water in the cooling towers
- 3.5. Support the use of an open loop cooling tower system for energy efficiency

4. SCOPE OF WORK

Suppliers are requested to confirm their capabilities to perform in accordance with the scope of work by ticking the appropriate box listed below:

No	Description	Yes	No	Comments
1	Decommissioning of existing water treatment system			
2	Safe disposal of existing water treatment system			
3	Design and manufacture containerised electrochemical water treatment system			
4	Supply and delivery the new electrochemical water treatment system			
5	Conduct technical survey(s) and water condition assessment to support the design and installation			
6	Installation of the water treatment system as per "As Built" design			
7	Provide maintenance services (labour and spares) for a 2 year period (24 months) from date of commissioning			
8	Provide training to Armscor maintenance technician(s)			
9	Supply Operating and Maintenance (O&M) Manuals			

5. RETURNABLES - INFORMATION REQUESTED

Suppliers are requested to provide information as indicated below:

1.	B-BBEE Status Kindly indicate your entity's BBEE Level and submit a valid proof of BBEE status	Level																													
2.	CIDB Grade Kindly submit your entity's CIDB grading	Grade																													
3.	CSD Registration Is your entity registered on CSD? Kindly submit your entity's proof CSD registration	YES	NO																												
4.	Original Equipment Manufacturer Status Is your entity an Original Equipment Manufacturer of the proposed system?	YES	NO																												
5.	If not an OEM, is your entity an Accredited Agent of the system you are proposing to Armscor?	YES	NO																												
6.	Country of Origin Indicate the country where the manufacturing will take place																														
7.	SUBCONTRACTING - Will your entity consider subcontracting any of the work included in this project scope? - If so, indicate which part of the scope will be sub-contracted. <table border="1"> <thead> <tr> <th>Description</th> <th>Yes</th> <th>No</th> <th>% Subcontracting</th> </tr> </thead> <tbody> <tr> <td>Design</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Manufacturing</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Decommissioning</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Installation & Commissioning</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Professional Services</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Description	Yes	No	% Subcontracting	Design				Manufacturing				Decommissioning				Installation & Commissioning				Professional Services				Other			
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8.	Reference Letters from Clients Kindly submit 2 reference letters from the entity's clients where the proposed Electrolysis Water Treatment System was successfully installed																														

6. RFI CONDITIONS

- 6.1. This RFI is only for information purpose and therefore shall not be awarded.
- 6.2. The costs of preparing the submission shall not be reimbursed.