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|  | Tender Questions and Answers | Document Identifier | 240-7124948   | Rev | 1 |
|                                                                                   |                              | Effective Date      | 01 April 2023 |     |   |
|                                                                                   |                              | Review Date         | April 2026    |     |   |

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|------------------------|----------------|-----------------------------|
| To whom it may concern | Date           | <u>14 March 2025</u>        |
|                        | Enquiries      | <u>Thembekile Matshaya</u>  |
|                        | E-mail address | <u>MatshaTB@eskom.co.za</u> |

Dear Sir/Madam

|                               |                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Request for Enquiry Number    | <u>MWP3025CX</u>                                                                                                                                                                                                                                                                                                                                       |
| Description / Project Title   | <u>THE PROVISION OF NON-CHEMICAL TREATMENT TECHNOLOGIES (SUCH AS ELECTROCHEMICAL, MAGNETIC, VIBRATION, ALTERATION OF SURFACE CHARGES, AND MECHANICAL DISTURBANCES SUCH AS VORTEX FLOW DEVICES, ULTRASOUND AND SUDDEN PRESSURE CHANGES) FOR COOLING AND ASH WATER TO PREVENT SCALING AND FOULING FOR A PERIOD OF TWENTY-TWO (22) MONTHS (RT&amp;D).</u> |
| Tender Questions Closing Date | <u>17 March 2025</u>                                                                                                                                                                                                                                                                                                                                   |

| Item | Questions                                                                                                                                                                                                                                                                                  | Answers                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Clarity Published Dates |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1.   | The practicality of the pilot sites, including the selection of a power station and area, cooling tower specification and number of cooling towers are not clear. Therefore, pricing structure, specific applications, unit locations, and pipe diameters, requires further clarification. | The Cooling Water Test should be for a period of 4 months and the Ash Water Test should also be for a period of 4 months. The 22 months is to cover instances where more than one technology is offered. Therefore, the supplier needs to provide the costs of running their technology for 4 months on the CW and for 4 months on the Ash Water. An MS Teams meeting is proposed for clarification initially and thereafter a site walk down can be done if required. |                         |

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| 2. | <ul style="list-style-type: none"> <li>The period mentioned is 22 months (Page 2 of 59), but the pilot scope is described as only 4 months. Should we propose for 4 months (supply/installation/monitoring/water testing/reporting), for 22 months, or monthly, or for the project? Again pricing would be difficult if we cannot obtain which system/ application is required.</li> <li>If the pilot is successful and expanded to other power stations or areas within the plant, will the same pricing structure be used?</li> <li>What is the process for installing and maintaining additional units?</li> </ul> <p>This tender encompasses the supply, service, maintenance, and monitoring of installed units. Does this imply that a price list must be submitted along with a Service Level Agreement (SLA) proposal</p> | <p>Best is to price separately for each. Eg, supply, install. Monitoring and maintaining will be charged on a monthly rate, irrespective of the duration. Guidance on pricing is also indicated on tender. This can be further clarified in the clarification meeting.</p> <p>This RFQ only applies for what we require on this test. Additional units are not considered for now.</p> <p>You would need to quote as per the SOW. Price for each “activity” e.g., install, etc. The monthly maintenance will be part of the contract for the duration as specified.</p> |  |
| 3. | <ul style="list-style-type: none"> <li>Pilot Sites:<br/>Do we choose one site for example</li> <li>1. Kriel South – Cooling Tower, and</li> <li>2. Camden – Ash water systems. (Recirculation)</li> <li>It is indicated that the Contractor will be responsible for the operation and maintenance of the pilot plant. Could you please confirm whether this responsibility extends only to the equipment installed within the pilot plant, such as the HydroFLOW unit and IoT routers/devices, while Eskom provides the pilot plant (test area)?</li> <li>Cost indication/ Pilot Pricing:</li> <li>Provide detailed information on creating a Price List, particularly when variable costs, such as emergency call outs, need to be included.</li> </ul>                                                                          | <p>The Ash Water testing must be carried out Camden Power Station. For the Cooling Water testing, the supplier has the option of either testing at Kriel, Duvha or Tutuka Power Station.</p> <p>The question requires clarification before a response can be given.</p> <p>You will price for inspections and maintenance as prescribed by the OEM / operating and maintenance procedures. There should be no plant risk, thus normal working hours will be catered for. You can price for a call out to have a more comprehensive quotation.</p>                       |  |

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|    | <ul style="list-style-type: none"> <li>Effect of Pipe and Systems - This pertains to the dimensions and pipe diameters ranging from 25mm to 2m or larger. We offer various units to accommodate the specified diameters, with unit pricing determined by the application and the outer diameter (OD) of the pipe network to be treated.</li> <li>“The supplier must include costs for testing the Cooling Water and Ash Water concurrently, as well as the cost when the Cooling Water is analyzed first, followed by the Ash Water” – please clarify whether this applies to each site or only in reference to Camden.</li> <li>Confirm that a monthly water test is needed, with one test before and one after the pilot. A total of 6 tests are required per pilot site (Kriel South Cooling Tower and Camden Ash water).</li> </ul> | <p>One scenario (for costing purposes) is when the contractor chooses to perform the tests in series e.g. a CW test at Kriel (or Duvha or Tutuka) for 4 months followed by the Ash water test at Camden for 4 months. The reasons could be due to only having one instrument etc. The second scenario (for costing purposes) is when the CW tests at Kriel (or Duvha or Tutuka) and the Ash water tests at Camden are done at the same time.</p> <p>For clarity, the test will be done at either Kriel, Duvha or Tutuka for Cooling Water and at Camden for Ash water. Also, according to the scope of work, the supplier must propose the trial/test with the inclusion of a control test which compares the performance with and without the proposed technology.</p> |  |
| 4. | <ul style="list-style-type: none"> <li>Cooling towers – What measurement equipment is currently installed? Are there flow meters, conductivity probes, temperature meters, etc.?</li> <li>Camden Ash water system: What are the pilot criteria? Is it only based on water test analysis, or does it also include visual inspection of infrastructure such as valves and pipes?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>For purposes of tendering, it would be better to assume that no measurement equipment is available.</p> <p>Visual inspections of the pilot plant/system must be carried out, e.g. inspections of pipe scale formation build-up.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 5. | <ul style="list-style-type: none"> <li>Given the complexity of each installation, precise costing for the units and installation necessitates site visits, as well as detailed drawings and diagrams for each pilot site, such as the Kendal South and Camden Ash water systems. Specifications may also vary between different plants.</li> <li>Drawings of pilot sites are needed to confirm, establish, and amend the following:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          | <p>A teams clarification meeting followed by a site visit can be arranged to ensure that all required information is provided.</p> <p>For the Ash water pilot testing at Camden Power Station, a tap off valve of 200NB from the return line is available where the pilot plant will tap into. Power</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |

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|    | <p>P&amp;ID, GA drawings ,220v single-phase power supply at specified unit areas (confirmed as per 5.8.1 (b))<br/> OD of pipes and pipe materials Operating temperature.<br/> Please elaborate on the requirements and area of the Camden Ash water. The scope only mentions the return water and table 8. It would be for the protection and reduction of scale in the ash water systems/ infrastructure. Example pipes/ pumps/ filters etc. Diagrams, Drawings and OD of pipes and power supply would also be required.</p> | will be available although, not sure on the power supply required for the proposed pilot plant.                                                                                                                   |  |
| 6. | <ul style="list-style-type: none"> <li>Custom HydroFLOW units need to be imported from the UK if the pilot requirements are deemed so there is lead time of manufacturing and importation of these units. The main factor would be the OD of the pipes and application. It is crucial to scope and specify the correct unit for the applications.</li> </ul>                                                                                                                                                                  | <p>It is important to indicate any long lead times on your proposal.<br/> The AWR return pipe tapping point is a 200NB isolation valve.</p>                                                                       |  |
| 7. | <ul style="list-style-type: none"> <li>HydroFlow SA does not have a number. Please provide the process of obtaining a vendor number and how long does it take?<br/> OdorCure, our sister company, has been appointed as an Agent for HydroFLOW has a Vendor Number on which we can Tender</li> </ul>                                                                                                                                                                                                                          | <p>Vendor registration process will only commence once the succesfull bidder gets awarded a contract.</p> <p>HydroFlow SA can tender, should you be successful Eskom then registration process will commence.</p> |  |
| 8. | <p>May we respectfully request an extension of the Tender Due date by at least two weeks be considered by the tender responsible team?</p> <p>The offer is not just a simple supply and deliver and requires more time to prepare and present. We are afraid there will not be enough time for us to participate effectively.</p>                                                                                                                                                                                             | <p>Yes, an extension will be granted, but it will be granted to all tenderers.</p> <p><b>New closing date:03 April 2025</b></p>                                                                                   |  |
| 9. | <p>1. Would it be possible to provide us with</p> <p>a. The Concentrated Cooling Water Recirculation Flow Rates and Make-Up Water Flow Rates for:</p> <ul style="list-style-type: none"> <li>Kriel PS,</li> <li>Tutuka PS and</li> </ul>                                                                                                                                                                                                                                                                                      | Kriel typically has flows between 350 l/s and 450 l/s on the 10% feed (Cooling Water from Hot Duct) to the Lime Treatment Plant                                                                                   |  |

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|     | <ul style="list-style-type: none"> <li>Duvha PS</li> </ul>                                               |                                                                     |  |
|     | 1. Would also it be possible to provide us with the Flow Rates of the Ash Return Water System at Camden? | Camden AWR line Flow rate = 600-700 m3/h (in a 600NB pipe)          |  |
|     | 2. As well as the Ash Return Water chemistry, specific to Camden PS?                                     | Ash Water chemistry composition is provided in the tender document. |  |
| 10. |                                                                                                          |                                                                     |  |
| 11. |                                                                                                          |                                                                     |  |
| 12. |                                                                                                          |                                                                     |  |
| 13. |                                                                                                          |                                                                     |  |
| 14. |                                                                                                          |                                                                     |  |

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