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| <b>Requesting Office:</b><br>Magalies Water Vaalkop Plant   |  |
| <b>Contact Person:</b><br>Evans Maluleke  |  |
| <b>Contact Numbers:</b><br>012 277 1452/1290  |  |
| <b>Facsimile:</b>   |  |
| <b>E-mail address:</b> <a href="mailto:evansm@magalieswater.co.za">evansm@magalieswater.co.za</a> | <b>RFQ – 10017804</b>  |

DATE ISSUE: 14 AUGUST 2023

CLOSING DATE: **21 AUGUST 2023**

PLACE OF DELIVERY: **Vaalkop Water Treatment Plant**

**75 JQ Farm Bulhoek**

**Beestekraal**

**0255**

For More information/query email: [evansm@magalieswater.co.za](mailto:evansm@magalieswater.co.za) or call 014 597 4636

| Item No. | Description/Specification   | Quantity |
|----------|---|----------|
| 1        | Repair plant 3 PLC Chem see the attached  |          |
|          | Repair plant 3 PLC Chem see the attached scope work   |          |
|          | <p><b>Repair Plant 3 Chemical PLC.</b></p> <p><b>1. Introduction</b></p> <p>1.1 Magalies Water (MW) is one of several water boards that was established in terms of the Water Services Act 108 of 1997. The Act stipulates the mandate of water boards which can be summarised as follows:</p> <ul style="list-style-type: none"> <li>a) To provide bulk water services as primary activity in terms of Section 29 of the Water Services Act 108 of 1997</li> <li>b) and other activities in terms of Section 30 Water Services Act 108 of 1997;</li> </ul> <p>Vaalkop Water Treatment Plant is one of the existing MW treatment plants and supplies potable water to North West and parts of Limpopo Province. The 270 Mℓ/day plant serves, amongst others, the following major consumers: Thabazimbi, Moses Kotane and Rustenburg Local Municipalities, Royal Bafokeng Administration, Royal Bafokeng Platinum Mines, Xstrata (SA Chrome), Amandabult (Anglo Platinum), Swartklip Mine, Pretoria Portland Cement, Northam Platinum and Impala Platinum. The bulk distribution mains from the Vaalkop WTW, supply larger towns, villages, and mines with off takes along the routes.</p> |          |

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1.2 Vaalkop Water Treatment Plant was recently upgraded to 270ML/d and currently the WTP consists of 4 plants namely:  
Plant 1: 30 Mℓ/d  
Plant 2: 90 Mℓ/d  
Plant 3: 120 Mℓ/d; and  
Plant 4: 30 Mℓ/d

**2. Repair Plant 3 Chemical PLC**

Replace the plant 3 Chemical PLC hardware with M580 PLC hardware, UPS 2000VA Tower On line Double conversion, Software configuration, installation and commissioning.

**3. Repair Plant 3 Chemical PLC**

**Old and obsolete PLC hardware**

| <i>Part No</i> | <i>Description</i>     | <i>Quantity</i> |
|----------------|------------------------|-----------------|
| 140 CPS 11420  | PLC Power Supply       | 1               |
| 140 CPU 65150  | PLC Pentium Controller | 1               |
| 140 000 35300  | PLC DO Card            | 1               |
| 140 000 35300  | PLC DO Card            | 1               |
| 140 DDI 35300  | PLC DI Card            | 1               |
| 140 DDI 35300  | PLC DI Card            | 1               |
| 140 DDI 35300  | PLC DI Card            | 1               |
| 140 DDI 35300  | PLC DI Card            | 1               |
| 140 DDI 35300  | PLC DI Card            | 1               |
| 140 DDI 35300  | PLC DI Card            | 1               |
| 140 ACI 03000  | PLC AI Card            | 1               |
| 140 ACI 03000  | PLC AI Card            | 1               |
| 140 ACI 03000  | PLC AI Card            | 1               |
| 140 ACI 03000  | PLC AI Card            | 1               |
| 140 ACI 03000  | PLC NOM 2XX00          | 1               |
| 140 ACO 02000  | PLC CRP93X00           | 1               |
| TCSESM083F2CU0 | Connexium Switch       | 1               |

**4. Add extra cards to the above Plant 3 Chemical PLC to accommodate the Chlorine plant equipments**

Create a page for Post –Chlorine dosing plant on SCADA (equipment's to be shown chlorine gas monitoring units for Scrubber stack, chlorine gas tanks storage room and chlorine injection room. The chlorine gas tanks auto shut off system operating from compressed air, 2 x load cell (one for each bank A & B), chlorine tank bank A & B change over switch, pressure transmitter for each bank, chlorine gas evaporator controller A and B bank with a built in PLC with comms port for bank A and B, 2 x extraction fan, Scrubber, potable water flow switch, chlorine siren to be all connected to the Plant 3 Chemical PLC and configured. The various inputs are already connected to the terminals in the Plant 3 Chemical PLC.

**6. Objectives**

The objective is to outsource an experienced contractor for the repairs of plant 3 chemical PLC in Vaalkop WTP.

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|  | <p><b>7. Deliverables</b></p> <p>a) Fully functional PLC hardware and software configuration<br/>b) Relevant SCADA changes.</p> <p><b>8. Evaluation Phases</b></p> <p><b>Phase 1: Administration Compliance (if not submitted bid will be disqualified)</b><br/><b>Phase 2: Functional /technical Evaluation</b><br/><b>Phase 3: Points awarded for price and B-BBEE Status level of contribution (80/20 preferential point System)</b></p> <p><b>Phase 1</b><br/><b>ADMINISTRATIVE MANDATORY REQUIREMENTS</b><br/>The information contained in the table below is mandatory and will be used in assessing the compliance of bids. Failure to submit and complete all the mandatory information will result in bids being deemed "non-responsive" and therefore will not be evaluated further.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 10%;">Item No</th> <th>Name of documents that must be submitted</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Affiliations and accreditations (OEM or Letter from OEM )</td> </tr> <tr> <td>2</td> <td>Certificate of an OEM's as certified Technician (Certified copy.)</td> </tr> <tr> <td>3</td> <td>1EP/EB or higher</td> </tr> <tr> <td>4</td> <td>Central Supplier Database (CSD) or CSD registration number</td> </tr> <tr> <td>5</td> <td>Bidders shall submit subcontracting agreements between the main contractor and the subcontractor with this bid (if applicable):</td> </tr> <tr> <td>6</td> <td>Joint ventures Certificate or Agreement (if applicable):</td> </tr> </tbody> </table> <p><b>N.B:</b> Failure of bidders to meet all the above mandatory requirements will result in bids being disqualified and won't be evaluated further.</p> <p><b>Phase 2: Functional /technical Evaluation</b><br/>Submitted proposals will be assessed based on the following evaluation criteria:</p> <p>a) Functionality</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 80%;">Company Experience and Capabilities in Maintenance</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>           Experience in Installation, Configuration, Maintenance and Commissioning of Instrumentation or electrical work in water treatment water plant or similar environment.<br/><br/>           Projects from the bidder should be indicated on a schedule of company experience to be attached together with reference letters or completion letter of previous similar projects as evidence from clients.         </td> <td style="text-align: center; vertical-align: middle;">30 points</td> </tr> </tbody> </table> | Item No | Name of documents that must be submitted | 1 | Affiliations and accreditations (OEM or Letter from OEM ) | 2 | Certificate of an OEM's as certified Technician (Certified copy.) | 3 | 1EP/EB or higher | 4 | Central Supplier Database (CSD) or CSD registration number | 5 | Bidders shall submit subcontracting agreements between the main contractor and the subcontractor with this bid (if applicable): | 6 | Joint ventures Certificate or Agreement (if applicable): | Company Experience and Capabilities in Maintenance | Points | Experience in Installation, Configuration, Maintenance and Commissioning of Instrumentation or electrical work in water treatment water plant or similar environment.<br><br>Projects from the bidder should be indicated on a schedule of company experience to be attached together with reference letters or completion letter of previous similar projects as evidence from clients. | 30 points |  |
|--|--|---------|--|---|---|---|---|---|------------------|---|--|---|---|---|--|--|--------|--|-----------|--|
| Item No  | Name of documents that must be submitted   |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| 1  | Affiliations and accreditations (OEM or Letter from OEM )  |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| 2  | Certificate of an OEM's as certified Technician (Certified copy.)  |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| 3  | 1EP/EB or higher   |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| 4  | Central Supplier Database (CSD) or CSD registration number   |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| 5  | Bidders shall submit subcontracting agreements between the main contractor and the subcontractor with this bid (if applicable):  |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| 6  | Joint ventures Certificate or Agreement (if applicable):   |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| Company Experience and Capabilities in Maintenance   | Points   |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |
| Experience in Installation, Configuration, Maintenance and Commissioning of Instrumentation or electrical work in water treatment water plant or similar environment.<br><br>Projects from the bidder should be indicated on a schedule of company experience to be attached together with reference letters or completion letter of previous similar projects as evidence from clients. | 30 points  |         |  |   |   |   |   |   |                  |   |  |   |   |   |  |  |        |  |           |  |

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|  | <b>Evaluation</b> <ul style="list-style-type: none"> <li>• Company experience of 2 similar projects (30 points)</li> <li>• Company experience of 1 similar project (20 point)</li> </ul> <p>Company experience of 0 similar projects (0 points)</p>   |           |  |  |  |
|  | <b>Qualifications of Project Manager</b>  |           |  |  |  |
|  | <p>The project manager should have at least a Trade test in Electrical/Instrumentation Engineering. (Provide CVs and Certificates).</p> <b>Evaluation</b>   | 30 points |  |  |  |
|  | <b>Certificates</b> <ul style="list-style-type: none"> <li>• National Diploma in Electrical / Instrumentation Engineering (30 points)</li> <li>• Trade test as Electrician / Instrument mechanician (20 points)</li> </ul>  |           |  |  |  |
|  | <b>Vehicles and Equipment</b>   |           |  |  |  |
|  | <p>Availability/Allocation of resources (See the below and fill it Equipment Inventory List)</p> <ul style="list-style-type: none"> <li>• Bidders to submit Proof of ownership or proof (letter of support) of intention to lease. Vehicle registration documentation to be attached.</li> </ul> <p>Evaluation of Equipment Resource Capacity<br/>Vehicle (Car/Bakkie/Truck) (40 points)</p>  | 40 points |  |  |  |
|  | <b>Tenderers must achieve a minimum functionality score of 60% in order to qualify for further evaluation on price and preference points.</b>   | Total 100 |  |  |  |
|  | <p><b>Phase 3: Points awarded for price and B-BBEE Status level of contribution (80/20 preferential point System)</b><br/> <b>N.B:</b> Failure of bidders to meet all the above mandatory requirements will result in bids being disqualified and won't be evaluated further.</p> <p><b>Compulsory work to be carried out by a competent person who meets the below, evidence to be provided prior to the commencement of a project.</b></p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"><b>Work Experience and Capabilities in Maintenance of a competent person</b></td> </tr> <tr> <td>Experience in Installation, Configuration, Maintenance and Commissioning of PLC and SCADA system and alliance integration partner/ master alliance integration partner</td> </tr> </table> |           |  | <b>Work Experience and Capabilities in Maintenance of a competent person</b> | Experience in Installation, Configuration, Maintenance and Commissioning of PLC and SCADA system and alliance integration partner/ master alliance integration partner |
| <b>Work Experience and Capabilities in Maintenance of a competent person</b>   |   |           |  |  |  |
| Experience in Installation, Configuration, Maintenance and Commissioning of PLC and SCADA system and alliance integration partner/ master alliance integration partner |   |           |  |  |  |

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|  | <p>with Schneider Electric on Control Systems, PLC Modernization and or Hybrid DC'S and Process Expert in water treatment water plant or similar environment.</p> <p>Projects from the competent person should be indicated on a schedule of work experience to be attached together with reference letters.</p> <ul style="list-style-type: none"> <li>• Work experience of 1 similar project</li> </ul>   |  |
|  | <p><b>Qualifications of Competent person</b></p> <p>Qualified OEM (Original Equipment Manufacturer) Certified Professional/ Certified Engineer or OEM (Alliance partner) Certified Professional/ Certified Engineer with Schneider Electric Academy programs and a PlantStructure TM certification Program (Certified Professional / PSX Engineer) and Vijeo Citect certification program (Certified Engineer) or EcoStruxture Plant Certified- Control System and EcoStruxture Plant Certified-Hybrid DCS.</p> <p><b>Certificates</b></p> <ul style="list-style-type: none"> <li>• PlantStructure TM certification Program (PSX Engineer) that has the following training (Unity Pro, Networking, Vijeo Citect / SCADA certified, PSX Engineer (+ PES) Certified Engineer) OR EcoStruxture Plant Certified- Control System and or EcoStruxture Plant Certified- PLC Modernization.</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>• Clear SCADA Certified Professional/ PSX Certified or OEM (Alliance partner) Certified Professional with Schneider Electric Academy programs that has the following training (Unity Pro, Networking, Vijeo Citect / SCADA certified, Telemetry)</li> </ul> |  |
|  | <p><b>Vehicles and Equipment to be used in the project</b></p> <p>Availability/Allocation of resources (See the below and fill it Equipment Inventory List)</p> <ul style="list-style-type: none"> <li>• Proof of ownership or proof (letter of support) of intention to lease the test equipment. Vehicle registration documentation to be attached. Tools and Equipment to be listed.</li> </ul> <p>Evaluation of Equipment Resource Capacity<br/>Vehicle (Car/Bakkie/Truck) and test Equipment's (A field programmer/ Laptop with compatible software's</p>  |  |

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|  | <p><b>7. Timelines</b><br/>Bidders to propose, together with the proposal, their anticipated timelines to hand deliverables to client.</p> <p><b>8. Health and Safety</b><br/>The work shall comply with the Occupational Health and Safety Act, Act no 85 of 1993 and the applicable regulations such as SANS, IEC etc.<br/>Prior to appointment of the contractor, he shall, in terms of Section 5.1 of the Act, provide proof that:</p> <ul style="list-style-type: none"> <li>• He has the necessary competencies and resources to perform the work safely.</li> </ul> <p><b>9. SHE File</b></p> <ul style="list-style-type: none"> <li>• SHE file shall be compiled and submitted to Magalies water within 7 days prior to onsite work commencement for approval/disapproval by end user &amp; SHE department and kept onsite during the duration of the work which shall consists of the following items:</li> <li>• Baseline SHE Risk Assessments for work to be undertaken.</li> <li>• Method statement for work to be undertaken.</li> <li>• Proven competence of ability to conduct work (includes competence declaration, competence certificates, affiliations, testimonials, relevant standards and reference).</li> <li>• Organogram, CV's, Identity document and qualifications of service provider employees or contractors on site.</li> <li>• SHE training (includes induction, awareness training, as necessary while operating under Magalies Water's control takes about 2 hours).</li> <li>• Provision and use of personal protective equipment</li> </ul> |  |
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### 1. Submission of Quotations

**RFQ Number** must always be stated on the quotation.

Quotations should be submitted on or before the Request for Quotation Deadline Date by no later than 12h00 to the email below. Email: [evansm@magalieswater.co.za](mailto:evansm@magalieswater.co.za)

### 2. Selection of Qualifying Quotation

The selection of the qualifying quotation will be at Magalies water's sole discretion. Magalies Water does not bind itself to accept any particular Quotation

### 3. DOCUMENTS REQUIRED

The quotation will be verified for responsiveness according to the following **REQUIREMENTS:**

- Quotation must have CSD vendor number/ submit CSD Report
- Quotation must have RFQ reference number
- Completed and signed Declaration of Interest Form (SBD4)
- Quotation with validity period should be 30 days or more.
- Quotation with physical address, date, contact details and banking details

\*NB All non-responsive bids will be rejected.

### 4. SELECTION OF QUALIFYING QUOTATION

Quotations will be evaluated in terms of the PPPFA using the 80:20 Preference point systems.

### 5. TERMS & CONDITIONS

- 5.1. Quotations received after the closing date will not be accepted.
- 5.2. All costs to be included in the quotation.
- 5.3. Delivery must take place at the specified place.
- 5.4. Quotations to be valid for 30 days from date of issue.
- 5.5. The Government Procurement General Conditions of Contract shall apply.