

<b>Requesting Office:</b> Magalies Water Vaalkop Plant	
<b>Contact Person:</b> Evans Maluleke	
<b>Contact Numbers:</b> 012 277 1452/1290	
<b>Facsimile:</b>	<b>RFQ – 10017065</b>
<b>E-mail address:</b> <a href="mailto:evansm@magalieswater.co.za">evansm@magalieswater.co.za</a>	

DATE ISSUE: 14 AUGUST 2023

CLOSING DATE: **22 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	<b>Repair BTU &amp; Solkor relays circuit</b>	
	Repair Lapatrie Reservoirs Telemetry See the attached scope of work	
	<p><b>1) REPAIR THE PILOT WIRES OF SIEMENS SOLKOR RF RELAYS END 1 AND END 2 OF THE FEEDERS PLANT 2D FEEDER NO. 1 AND 2.</b>  <b>SUPPLY INSTRUMENTATION CABLE- INDIVIDUAL AND OVERALL ALUMINIUM/ MYLAR SCREENED COPPER 2 PAIRS X 1,0 MM SQUARED UNAMOURED PVC FLAME RETARDANT X 250M</b>  <b>SUPPLY SPLICING KIT FOR THE INSTRUMENTATION CABLE X 4</b></p> <p><b>A) PILOT TESTS:</b>  PILOT CONNECTION TEST  PILOT LOOP RESISTANCE TESTS  INSULATION RESISTANCE TEST</p> <p><b>B) OVERALL FAULT SETTING TESTS:</b></p> <p><b>C) CURRENT TRANSFORMER RATIO AND POLARITY TEST:</b></p> <p><b>D) DOCUMENTS:</b>  OEM Manuals, test reports and drawings shall be provided to the end user.</p> <p><b>2) REPAIR THE PILOT WIRES OF SIEMENS SOLKOR RF RELAYS END 1 AND END 2 OF THE FEEDERS PLANT 4 FEEDER NO. 1 AND 2</b>  <b>SUPPLY INSTRUMENTATION CABLE- INDIVIDUAL AND OVERALL ALUMINIUM/ MYLAR SCREENED COPPER 2 PAIRS X 1,0 MM SQUARED UNAMOURED PVC FLAME RETARDANT X 250M</b></p>	

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	<p><b>SUPPLY SPLICING KIT FOR THE INSTRUMENTAION CABLE X 4</b></p> <p><b>A) PILOT TESTS:</b>  PILOT CONNECTION TEST  PILOT LOOP RESISTANCE TESTS  INSULATION RESISTANCE TEST</p> <p><b>B) OVERALL FAULT SETTING TESTS:</b></p> <p><b>C) CURRENT TRANSFORMER RATIO AND POLARITY TEST:</b></p> <p><b>D) DOCUMENTS:</b>  OEM Manuals, test reports and drawings shall be provided to the end user.</p> <p><b>3) Test and repair Plant 2D Transformer room substation (TRX 1).  Medium Voltage Switchgear Manufacture: Hawker Siddeley</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Unit Ser No:</td> <td style="width: 33%;">Busbars rating: 1250A</td> <td style="width: 33%;">VCB Rating: 630A</td> </tr> <tr> <td>Mech Type:</td> <td>Trip coil: 110V DC</td> <td>Close coil: 110V DC</td> </tr> <tr> <td>Prot CT: 200-400/1, Class: 15VA CL10P10, 2,3 ohms, 50Hz, IL : 0.66KV, IEC 44-1</td> <td></td> <td>VCB Type:</td> </tr> </table> <p><b>CT'S Functional Tests</b></p> <ul style="list-style-type: none"> <li>• <b>The CTs</b> connected to the protection relay shall be tested, and the Contractor shall provide the following results for all CTs: <ul style="list-style-type: none"> <li>• Magnetizing curves. <ul style="list-style-type: none"> <li>○ Ratio tests (Primary and Secondary).</li> <li>○ Insulation resistance tests.</li> <li>○ Resistance tests.</li> <li>○ Polarity tests.</li> </ul> </li> </ul> </li> </ul> <p><b>Protection Relay tests</b></p> <ul style="list-style-type: none"> <li>• Relay function tests shall include: secondary injections on the relay to: <ul style="list-style-type: none"> <li>○ ensure the relay is tripping during fault conditions,</li> <li>○ ensure the relay is programmed and configured correctly,</li> <li>○ ensure the relay is opening the circuit breaker,</li> <li>○ wiring is done properly.</li> </ul> </li> </ul>	Unit Ser No:	Busbars rating: 1250A	VCB Rating: 630A	Mech Type:	Trip coil: 110V DC	Close coil: 110V DC	Prot CT: 200-400/1, Class: 15VA CL10P10, 2,3 ohms, 50Hz, IL : 0.66KV, IEC 44-1		VCB Type:	
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	<p><b>Indications</b></p> <ul style="list-style-type: none"> <li>• Indication tests shall include switching on/off of the indication to ensure status are configured for the correct indication and as well as trip/ fault indication.</li> </ul> <p><b>Replace the 3 x CT'S</b></p> <ul style="list-style-type: none"> <li>• Data from a name plate <ul style="list-style-type: none"> <li>○ Manufacture: Current Electric (PTY) LTD</li> <li>○ Ratio: 200-400/1</li> <li>○ VA: 15</li> <li>○ Class: 10P10</li> <li>○ Rs: 2.3 ohms</li> <li>○ IL: 0.66 KV</li> </ul> </li> </ul> <p><b>Replace the 3 x Ammeter (Red, White &amp; Blue)</b></p> <ul style="list-style-type: none"> <li>• Data from a name plate <ul style="list-style-type: none"> <li>○ Manufacture: Crompton 244-16cg-lssf-4T-ZW</li> <li>○ ES: 0-5/6 AMPS AC</li> <li>○ SCALED: 0/500/600 AMPS AC</li> <li>○ Optional terminal cover P/No: 4766401</li> </ul> </li> </ul> <p><b>4) Connect the MV cable to the incomer 2 of Plant 4 HLPS Substation and do phasing.</b></p> <p><b>5) Supply 5kg of HT putty and 23 insulation tape x 5</b></p> <p><b>6) SUPPLY, INSTALL AND COMMISSION BATTERY TRIPPING UNITS (BTU) FOR MEDIUM VOLTAGE SUBSTATION PLANT 1 REPLACE A CURRENT STATIC POWER BATTERY TRIPPING (AC INPUT (VOLTS: 220V, A: 4A, SINGLE PHASE, 50Hz, TYPE: 1V1105C90) DC OUTPUT (VOLTS :110V, A: 5A, LOAD: 85 NC, DUTY: C, SERIAL NO: 89/789)) UNIT WITH THE BELOW LISTED SUPPLY, INSTALL AND COMMISSIONING 110VDC 3A / 5A / 10A STANDARD BATTERY TRIP UNIT WITH VENTED NICKEL CADMIUM BATTERIES. LOCATION: MAIN SUBSTATION</b></p> <p><b>A) CHARGER UNIT:</b></p> <p>QUANTITY :1  INPUT :230/250V 1 PHASE 50Hz  INPUT BURDEN :550VA WORST CASE  OUTPUT :110V DC NOMINAL  FLOAT VOLTAGE :120,7V DC</p>	
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<p>BOOST VOLTAGE :131,8V DC  CHARGER RATING :3A DC CONTINUOUS  STANDING LOAD :NOT SPECIFIED - MAX 1,5A DC RECOMMENDED  CHARGER TYPE :CONSTANT VOLTAGE CURRENT LIMIT (CVC)  SMOOTHING :5% RMS V  REGULATION :+/- 10% MAINS VARIATION &lt;= +/- 1% ON DC  OUTPUT</p> <p>MAJOR COMPONENTS :AC INPUT ISOLATOR  :MAINS PROTECTION FUSE  :AC INPUT SURGE SUPPRESSION MOV  :MAINS ON NEON LAMP  :DOUBLE WOUND MAINS TRANSFORMER  :DC SMOOTHING CHOKE + CAPACITOR  :BR1000 RECTIFIER THYRISTOR CONTROL MODULE  :BRIDGE RECTIFIER/THYRISTOR STACK  :96mm DC AMMETER  :96mm DC VOLTMETER  :RECTIFIER PROTECTION FUSE</p> <p>ALARMS : CHARGER FAILED  :BATTERY VOLTAGE LOW  :AC/DC/BATTERY TERMINALS, ETC (MULTI ALARM  PANEL)</p> <p>TEST BUTTON :BATTERY CONDITION</p> <p>CABINET :SHEET STEEL FLOOR STANDING SELF CONTAINED  TYPE WITH FRONT ACCESS VIA A  PADLOCKABLE FRONT DOOR WHERE CHARGER  AND BATTERY SHARE A COMMON ENCLOSURE</p> <p>FINISH :POWDER COATED EITHER LIGHT GREY G29 IN  ACCORDANCE WITH SABS1091 WITH STRUCTURED  FINISH - OTHER COLOURS ARE AVAILABLE ON  REQUEST</p> <p><b>B) BATTERY SYSTEM:</b>  QUANTITY :1 x SET OF 85 SERIES CONNECTED CELLS  BATTERY TYPE :VENTED POCKET PLATE NICKEL CADMIUM  DESIGNATION :SAFT TYPE KPZ10 CAPACITY :10 AMP - HOUR AT  THE 5 HOUR DISCHARGE RATE  DESIGN LIFE :20 YEARS</p> <p><b>MANDANTORY:</b>  <b>SERVICE PROVIDER QUALIFICATION:</b></p> <ul style="list-style-type: none"> <li>• CIDB Grading: 1EB or 1EP or higher</li> </ul>	
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	<ul style="list-style-type: none"> <li>The work shall be carried out by a person with at least ORHVS and or Medium voltage certification (MQA or accredited institution) or OEM Technician and or any equivalent.</li> </ul> <p><b>LISTS OF BOQ WITH PART NUMBER AND NAME OF THE MANUFACTURE</b></p> <ul style="list-style-type: none"> <li>Shall be provided for approval by the end user.</li> </ul> <p><b>STANDARDS:</b></p> <p style="padding-left: 40px;">The national and international standards shall be followed as well as the Original Equipment Manufacturer (OEM) specifications and standards.</p> <p><b>GUARANTEE/ WARRANTY:</b></p> <p>The warranty shall cover faulty materials and workmanship on a carry-in basis for 12 months from the time the item was commissioned.</p> <p><b>PRODUCT LEAD TIME/ DELIVERY:</b></p> <ul style="list-style-type: none"> <li>Supplier to state expected equipment lead times. Letter from Original Equipment Manufacturer (OEM) or supplier. +/- 4 weeks</li> </ul> <p><b><u>COMPULSORY BEFORE THE COMMENCEMENT OF WORK.</u></b></p> <p><b><u>SHE SPECIFICATION:</u></b></p> <p>SHE file shall be compiled and submitted to Magalies water 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 consist of the following items:</p> <ul style="list-style-type: none"> <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, Positions, CV's, Identity document and qualifications of service provider employees or contractors on site.</li> </ul>	
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	<ul style="list-style-type: none"> <li>• SHE training (includes induction, awareness training, as necessary while operating on Magalies Water premises), induction takes about 2 hours.</li> <li>• Provision and use of personal protective equipment.</li> <li>• Nonconformity/ Incident/ Accident/ Near-miss reporting requirements.</li> <li>• Covid 19 measures plan</li> <li>• Report to the end user number of employees on site and submit an attendance register.</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:**

- Valid certified B-BBEE Certificate/ Sworn Affidavit
- 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.

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#### 4. EVALUTION OF 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.