

Requesting Office: Magalies Water Vaalkop Plant	
Contact Person: Evans Maluleke	
Contact Numbers: 012 277 1452/1290	
Facsimile:	
E-mail address: evansm@magalieswater.co.za	RFQ – 10019720

DATE ISSUE: 08 MAY 2023

CLOSING DATE: **16 MAY 2023**

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

75 JQ Farm Bulhoek

Beestekraal

0255

For More information/query email: evansm@magalieswater.co.za or call 014 597 4636


Item No.	Description/Specification	Quantity
1	DAFF 2 SOUTH PLC REPLACEMENT	
	AS PER BELOW SPEC	
<u>Vaalkop Plant 2 South PLC replacement/Upgrade</u>		
<u>Material:</u>		
Part No	Description	Quantity
BMXP342020	CPU340 - 20 Modbus Ethernet	1
ABL8RPS24100	240VAC/24VDC Power supply	1
BMEXBP 1200	12 Slot Ethernet backplane	1
BMXCPS3500	High Power AC Power Supply	1
BMXDDI3202K	DIG 321 24VDC Sink	2
BMXDRA1605	DIG 16Q Relays	3
BMXAMI0810	ANA 8 U/I IN isolated Fast	1
BMXFCW303	FCN 2 x20 Wire 3M Cable	2
BMXFTW301	FTB20 Wire 3M Cable	3
BMXFTW308S	28 Wire Preformed Shielded FTB	1
MCSEM103F2CU0	Modicon Managed Switch 8TX2FX-MM	1
MGWB0000184401	Panel Auxiliaries	1
	PLC Drawings 2 sets 1 Hardcopy one Soft copy	1
Labour	Installation	1

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Labour	Engineering (PLC Programming)	1																														
Labour	Commissioning of IO after hardware Installation and Software changes. Ensuring that both field devices and SCADA corresponds and works well.	1																														
<p><u>Requirements:</u></p> <p>1) Functionality = 100 points 70% threshold must be achieved</p> <p><u>In the case of a joint venture Functionality must still be achieved by partner company and a letter of good standing with partner company must be given.</u></p> <p>Company Experience</p> <table border="1"> <tr> <td>Previous Experience upgrading PLC or installation of new PLC on Clear water treatment Plants</td> <td>Proof must be given of previous experience by means of orders and/or completion letters. Not older than 5 years.</td> <td>30 points</td> </tr> <tr> <td></td> <td>No previous experience</td> <td>0 points</td> </tr> <tr> <td></td> <td>Two Projects completed successfully</td> <td>10 points</td> </tr> <tr> <td></td> <td>Three to Four projects completed successfully</td> <td>15 points</td> </tr> <tr> <td></td> <td>Five to 10 or more Projects completed successfully</td> <td>30 points</td> </tr> </table> <p>Personnel Experience</p> <table border="1"> <tr> <td>Schneider PLC training and certification</td> <td>Certified Certificate must be included</td> <td>20 points</td> </tr> <tr> <td></td> <td>No Certificate</td> <td>0 points</td> </tr> <tr> <td></td> <td>1 Person completed Schneider PLC ECO Structure Control Systems /Unity Pro training.</td> <td>10 points</td> </tr> <tr> <td></td> <td>2 or more Persons Completed Schneider PLC ECO Structure Control Systems/Unity Pro training</td> <td>20 points</td> </tr> <tr> <td>Schneider PLC Modernisation Training and Certification</td> <td>Certified Certificate must be included</td> <td>20 points</td> </tr> </table>			Previous Experience upgrading PLC or installation of new PLC on Clear water treatment Plants	Proof must be given of previous experience by means of orders and/or completion letters. Not older than 5 years.	30 points		No previous experience	0 points		Two Projects completed successfully	10 points		Three to Four projects completed successfully	15 points		Five to 10 or more Projects completed successfully	30 points	Schneider PLC training and certification	Certified Certificate must be included	20 points		No Certificate	0 points		1 Person completed Schneider PLC ECO Structure Control Systems /Unity Pro training.	10 points		2 or more Persons Completed Schneider PLC ECO Structure Control Systems/Unity Pro training	20 points	Schneider PLC Modernisation Training and Certification	Certified Certificate must be included	20 points
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	No Certificate	0 points
	1 Person completed PLC Modernisation training	10 points
	2 or more Persons completed PLC Modernisation training	20 points
Valid Schneider PESS Training and Certification	Certified Certificate must be included still in validation period	30 points
	No Certificate or no longer in validation Period	0 points
	1 Person in with valid Schneider PESS certificate	10 points
	2 or more Persons with valid Schneider PESS certificate	30 points
<p>2) A valid and up to date Safety File must be handed in to SHEQ department before work can commence.</p> <p>3) Induction must be done (time must be allowed for in quotation)</p> <p>4) All procurement requirements must be adhered to.</p> <p>5) A letter of good standing with the OEM not older than a year must accompany RFQ</p>		
<p>Scope of work to be done</p> <p>a) A new PLC CPU and cards must be prebuild and wired on a back plane. Ready to install in to the panel.</p> <p>b) Wiring must be wired ready to be connected to the terminals of drawings supplied.</p> <p>c) Modernization software must be used to convert the old program to the new PLC CPU in order to save cost on engineering.</p> <p>d) Each flotation tank has three actuator valves. Inlet Valve supplying water to the flotation tank, an out let valve letting your water out of the flotation tank and a wash valve. The wash Valve washes the scum of your Flotation tank.</p> <p>e) In normal Operation you run your Inlet and outlet valves open taking descummed water from the flotation tank to your settling tank. From the settling tank to your filter.</p> <p>f) In wash operation you close the outlet valve and run both inlet and wash valve open, in order for the scum to dump into the Scum canal.</p> <p>g) The level sensor running at the back on the wash canal must give you an indication if you have enough water to push the scum over the edge. If not you have a wash failure.</p> <p>h) There must be a way to adjust the time of the wash for when the need arises to was it for a longer period.</p>		

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	<ul style="list-style-type: none"> i) A timer running on hours must be included to change the frequency of how often a Flotation tank must wash. j) The partner Flotation tank is part of the wash cycle. All valves close on the partner Flotation tank to enable the rise of the wash canal. k) There are 6 Flotation tanks or 3 pairs of partner Flotation tanks. Eg tank 1&2, 3&4, 5&6. l) The PLC also control the Saturator tank or Mixer tank where clear water and compressed air is mixed to get the “white water” effect that goes into the Flotation tanks. m) The Saturator process has a pump, pumping water into the saturator tank. At +/- 3.5 bar and compressed air running at +/- 6bar pressure and regulated with a solenoid valve. Knowing when to open or close using the Magnetic switches indicated on page 14 of the drawings. n) This PLC is part of a Network ring and might receive or send info to other PLC’s in the Network. Hence the copying of the program using the modernization software not to lose vital info. 	
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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 16h00 to the email below. Email: 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.

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- Quotation with physical address, date, contact details and banking details

*NB All non-responsive bids will be rejected.

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.