

<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 – 10019118</b>
<b>E-mail address:</b> <a href="mailto:evansm@magalieswater.co.za">evansm@magalieswater.co.za</a>	

DATE ISSUE: 09 MAY 2023

CLOSING DATE: 17 MAY 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>Supply PLC hardware for Supernatant</b>	
	See the attached scope of work  Pascalis: 0636122156	

### **Supply PLC hardware for Supernatant Pump Station or Plant 2D.**

#### **1. Introduction**

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:

- a) To provide bulk water services as primary activity in terms of Section 29 of the Water Services Act 108 of 1997
- b) and other activities in terms of Section 30 Water Services Act 108 of 1997;

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

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Platinum. The bulk distribution mains from the Vaalkop WTW, supply larger towns, villages, and mines with off takes along the routes.

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) Supply PLC hardware for Supernatant or Plant 2D High Lift Pump Station.

### BOQ for PLC hardware

<b>Part No</b>	<b>Description</b>	<b>Quantity</b>
EGX150	Power logic	1
BMXRMS008MPF	SD card for Modicon M340 range	1
BMEXBP1200	12 Slot Ethernet backplane	1
BMXCPS3500	High Power AC Power Supply	1
BMEP583040	Standalone Processor Modicon M 580	1
BMXDDO3202K	Discrete Output Module, Modicon X80 Series, With 24 V;19 to 30 V dc	1
BMXDDI3202K	DIG 321 24VDC Sink	3
BMXAMI0810	ANA 8 U/I IN isolated Fast	4
BMXAMO0410	Analogue Output Module, Modicon X80 Series, With ±10 V	1
BMENOC0301	Communication Module, 3.3 V dc, 555 mA	1
BMEXBP1200	Modicon X80 Series, EtherNet Backplane for BMXCPS Power Supply Module	1
BMXCPS3500	High Power AC Power Supply	1
BMECRA31210	Modicon X80 Series, Drop Adapter for BMXERT Multifunction Input Module	1
BMXAMO0410	Analogue Output Module, Modicon X80 Series, With ±10 V	1
BMXART0814	Analogue Input Module, Modicon X80 Series, With 3.3 V dc	5
ABL8RPS24100	Telemecanique, ABL8 Series, Power Supply Module, 100 V ac to 240 V ac (N-L1), 200 to 500 V ac (L1-L2)	1
BMXFTW301S	Shielded Cord Set 3 m (Cable)	2
BMX FCW 303	FCN 2 x20 Wire 3M Cable	4
BMXFTW308S	28 Wire Preformed Shielded FTB	4
BMX FCW 301S	Modicon M340 Series, Preformed Cordset, for BMXART0414;BMXART0814	10
	Backplane	2

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### 3. Objectives

a) The objective is to outsource an experienced contractor for the supply of the plant 2D high lift pump station PLC hardware in Vaalkop WTP.

### 4. Deliverables

a) Fully functional PLC hardware and compatible to the existing Schneider Electric Modicon M580

### 5. Evaluation Phases

**Phase 1: Administration Compliance (if not submitted bid will be disqualified)**

**Phase 2: Functional /technical Evaluation**

**Phase 3: Points awarded for price and B-BBEE Status level of contribution (80/20 preferential point System)**

#### Phase 1

#### ADMINISTRATIVE MANDATORY REQUIREMENTS

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.

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):

**N.B:** Failure of bidders to meet all the above mandatory requirements will result in bids being disqualified and won’t be evaluated further.

#### Phase 2: Functional /technical Evaluation

Submitted proposals will be assessed based on the following evaluation criteria:

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a) Functionality

<b>Company Experience in Maintenance</b>	<b>Points</b>
<p>Experience in supplying PLC hardware or SCADA system or field instruments used on water treatment water plant or similar environment.</p> <p>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. Use the list provided on <b>10. Company Experience of the Bidder.</b></p> <p><b>Evaluation</b></p> <ul style="list-style-type: none"> <li>• Company experience of 3 or more similar projects (40 points)</li> <li>• Company experience of 2 similar projects (30 points)</li> <li>• Company experience of 1 similar project (20 point)</li> <li>• Company experience of 0 similar projects (0 points)</li> </ul>	40 points
<b>Experience of Technician</b>	
<p>Capability, knowledge and experience of a Certified Professional / PSX Engineer who will be carrying out the work. 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 and minimum of 2 applicable years' experience of Certified Professional / PSX Engineer to be used on the assignment (CV with contactable reference).</p> <p><b>Certificates</b></p> <ul style="list-style-type: none"> <li>• 5 or more years' experience with 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 (20 points)</li> <li>• 4 years' experience with PlantStructure TM certification Program (Certified Professional / PSX Engineer) and Vijeo Citect certification program (Certified Engineer) or EcoStruxture Plant Certified- Control System (10 points)</li> <li>• 2 years' experience PlantStructure TM certification Program (Certified Professional / PSX Engineer) (5 points)</li> <li>• 0 -2 years' experience without any of the certification (0 points)</li> </ul>	20 points
<b>Vehicles and Equipment</b>	
Availability/Allocation of resources (See the below Equipment Inventory List)	40 points

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<ul style="list-style-type: none"> <li>Bidders to submit Proof of ownership or proof (letter of support) of intention to lease the vehicle. Vehicle registration documentation to be attached. <b>11. Vehicle and Equipment Inventory list</b></li> </ul>	
Evaluation of Equipment Resource Capacity Vehicle (Car/Bakkie/Truck)	
<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

**Phase 3: Points awarded for price and B-BBEE Status level of contribution (80/20 preferential point System)**

#### 6. Timelines

Bidders to propose, together with the proposal, their anticipated timelines to hand deliverables to client.

#### 7. Company Experience of Bidder

**[Note for the Bidder: The bidder must complete the information set out below in order to establish an overall picture of the company's experience, capacity and ability to undertake the work]**

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The bidder must provide the following information:

Client Name	Contract Value	Contract Period (Start and End Dates)	Scope of services provided	Name, title and telephone contact of client
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

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### 8. Vehicles and Equipment Inventory List

*[Note for the Bidder: The bidder must complete the vehicles and equipment inventory list in full and attach proof of ownership or lease agreements or letter of commitment to secure vehicle and test equipment. The inventory list must also show if the vehicle and equipment ownership or leased and proof of ownership/lease must be provided or commitment letter to secure vehicle i.e. lease agreement of the vehicle and equipment.]*

Item Name	Description (Make and Model)	Leased/Owned	# Days in a month dedicated to Magalies Water	# Days in a month dedicated to other projects
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

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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](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.

### 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.