

BLOEM WATER

REQUEST FOR PROPOSAL (RFP): REPLACEMENT OF FLOW METERS

CONTRACT NO.: BW250/FM/18

Bloem Water is a schedule 3B Public Business Enterprises (PFMA, Act 1 of 1999), which has been established in terms of the Water Services Act (Act 108 of 1997).

Bloem Water has been experiencing water losses in the past months, which could not be accounted for from the production volume and sales of water. The magnitude of the losses experienced could not be regarded as negligible as it affects Bloem Water's bottom line. An investigation was conducted to determine what could be attributed to these water losses.

The water model is dependent on a stable and effective water measurement and billing system. Constant and regular monitoring of pipeline leaks, metering (flow totalizer), and reservoir levels (inflow and outflow) are key to determine the water balance in order to manage and optimize water delivery to customers.

It is estimated that tenderers should have a CIDB contractor grading designation of **5EP** or higher.

Scope of Works

This appointment requires the provision of the following:

- Supply, deliver, install and commission flow meters for measurement of water as per the below specifications.
- A project implementation methodology together with relevant block diagrams and descriptions must be supplied detailing exactly how the proposed solution will meet the Bloem water requirements. This should also detail how the continuous operation of the Bloem water system as a whole is achieved during implementation of the upgrades i.e. what measures have been put in place in order to minimize downtime.

Electro-magnetic

- Maintenance-free: no moving parts, obstruction or wear
- Standard measurement accuracy: $\pm 0.2\%$
- On-site verification of flow meter
- 2 wire, 4 - 20mA HART®
- The meter must be selected and installed to ensure the water quality does not adversely affect the performance and life expectancy of the flow meter.

Differential Pressure

- Accuracy - $\pm 0.065\%$
- 2 wire, 4 - 20mA HART®
- Change of pressure transmitter without process interruption

Water Supply Scheme	Meter Name	To be Supplied, Installed and Commissioned	Pipe Size in mm	Maximum Pressure/Flange rating	Specifications/Features
CALEDON					
	Filter Wash Meter	Differential Pressure	400mm	16 bar	Measuring range: 30 mbar...16bar, 2 wire, 4 – 20 mA HART, profibus-PA. Reference accuracy of $\pm 0.065\%$.
	Final Water (P)	Electro-Magnetic	1200mm	40 bar	Transmitter features -Safe operation – no need to open the device due to display with touch control, background lighting. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Transmitter housing made of durable polycarbonate or aluminium. WLAN access. Sensor features - Flexible engineering – sensor with welded or lap-joint process connections. Reliable measurement – accurate measured values even with 0 DN inlet run. Improved plant availability – sensor compliant with industry-specific requirements. International drinking water approvals. Degree of protection IP68 (Type 6P enclosure).
	Tienfontein Pumpstation (R)	Electro-Magnetic	900mm	16 bar	High accuracy ($\pm 0.2\%$), with CT approvals (OIML R49, MI-001), 3 X 4 – 20 mA HART, MODBUS, Profibus-PA/DP, Profinet
	Brandkop – FQ 3	Electro-Magnetic	1200mm	25 bar	Transmitter features -Safe operation – no need to open the device due to display with touch control,

					<p>background lighting. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Transmitter housing made of durable polycarbonate or aluminium. WLAN access. Sensor features - Flexible engineering – sensor with welded or lap-joint process connections. Reliable measurement – accurate measured values even with 0 DN inlet run. Improved plant availability – sensor compliant with industry-specific requirements. International drinking water approvals. Degree of protection IP68 (Type 6P enclosure).</p>
MODDER					
	Botshabelo/Country Bird	Electro-Magnetic	800mm	PN 40	<p>Transmitter features -Safe operation – no need to open the device due to display with touch control, background lighting. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Transmitter housing made of durable polycarbonate or aluminium. WLAN access. Sensor features - Flexible engineering – sensor with welded or lap-joint process connections. Reliable measurement – accurate measured values even with 0 DN inlet run. Improved plant availability – sensor compliant with industry-specific requirements. International drinking water approvals. Degree of protection IP68 (Type 6P enclosure).</p>

	Rustfontein Raw Water	Electro-Magnetic	900 mm	40 bar	<p>Transmitter features -Safe operation – no need to open the device due to display with touch control, background lighting. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Transmitter housing made of durable polycarbonate or aluminium. WLAN access. Sensor features - Flexible engineering – sensor with welded or lap-joint process connections. Reliable measurement – accurate measured values even with 0 DN inlet run. Improved plant availability – sensor compliant with industry-specific requirements. International drinking water approvals. Degree of protection IP68 (Type 6P enclosure).</p>
	Groothoek Raw water	Electro-Magnetic		40 bar	<p>Transmitter features -Safe operation – no need to open the device due to display with touch control, background lighting. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Transmitter housing made of durable polycarbonate or aluminium. WLAN access. Sensor features - Flexible engineering – sensor with welded or lap-joint process connections. Reliable measurement – accurate measured values even with 0 DN inlet run. Improved plant availability – sensor compliant with industry-specific requirements. International drinking</p>

			400 mm		water approvals. Degree of protection IP68 (Type 6P enclosure).
ORANGE					
	J1 - J/fontein 200 mm TLC	Electro-Magnetic	200 mm	3 bar	Extra isolation of electronics for use in high humidity areas, 4...20 mA, pulse, frequency, status, HART®, Modbus. Liner materials resistant to low concentrated chemicals
	Bethulie TLC	Electro-Magnetic	100 mm	12 bar	Extra isolation of electronics for use in high humidity areas, 4...20 mA, pulse, frequency, status, HART®, Modbus. Liner materials resistant to low concentrated chemicals

Pre- Qualification Specific Tender Conditions:

The pre-qualifying criteria objective is to advance certain designated groups that meets the specific tendering condition

- (a) a tenderer having a stipulated minimum B-BBEE status level of contributor **Level 2**;
- (b) an EME or QSE;

"Designated group" means

- i. Black people
- ii. Black Designated groups
- iii. Women
- iv. People with disabilities; or
- v. Small enterprise, as defined in the National Small Enterprise Act, 1996 (Act No. 102 of 1996)

Preference will be given to Service Providers who have demonstrated previous expertise in the relevant field, capabilities, and have the required qualified human resources.

A tender that fails to meet the pre-qualifying criteria stipulated in the tender documents is an unacceptable tender as stipulated in the PPPF Act 2017, (Act No.5 of 2000): Government Gazette No.40553

Firms who meet the specified pre-qualification will be further evaluated in line with the 80/20 method as per the PPPF Act; Bloem Water reserves the right not to award the tender to the highest scoring bidder.

Where bid documents can be obtained:

Website: www.etenders.gov.za - National Treasury Website – eTender Publication

Website: www.bloemwater.co.za – Bloem Water Website

A compulsory briefing session with representatives of the employer will be take place on Monday, **18 November 2019** at the Bloem Water Head-Office Entertainment Area, 02 Mzuzu Street, Pellissier, Bloemfontein, starting at 11h00am.

The office coordinates are - **29°08'42.2"S 26°09'23.5"E**

Completed proposals must be addressed as below and deposited before **12:00 on Friday, 29 November 2019** at the Tender Box situated at the Bloem Water Reception Area for Attention:

Mr Lerato Moeketsi

Supply Chain Management

Bloem Water

2 Mzuzu Street

Pellissier

Bloemfontein

9322

Each proposal must be submitted in two **(2) separate envelopes** clearly marked:

- 1. Request for Proposal (RFP): Replacement of Flow Meters – Contract No.: BW250/FM/18– Technical Proposal**
- 2. Request for Proposal (RFP): Replacement of Flow Meters – Contract No.: BW250/FM/18 – Contract No.: BW250/FM/18– Financial Proposal**

With the bidders name and address. Bloem Water promotes Broad-Based Black Economic Empowerment. The name of the firm submitting the tender shall be clearly shown on all correspondence. An appointment will be made in terms of the approved Supply Chain Management Policy of the Board of Bloem Water.

Service Providers who meet the specified quality criteria will be further evaluated in line with the Preferential Procurement Policy Framework Act (PPPFA) principle of 80/20. Bloem Water reserves the right not to award the tender to the highest scoring bidder

Tenders may only be submitted on the tender documentation that has been issued. **A two-envelope system will be followed.**

Proposals which are incomplete, filled incorrectly, or telegraphic, telephonic, telex, facsimile, e-mail and late tenders will not be accepted.

Should you do not receive any feedback from Bloem Water after 60 days of submission, consider your tender unsuccessful.

Technical Queries can be directed to:

Mr T Ngubeni
Executive Engineering and Projects
Tel: 051-403 0800
Fax: 051-422 5333
E-mail: themban@bloemwater.co.za

Tender Administrative Queries can be directed to:

Mr T Khaeane or Mr L Moeketsi
Supply Chain Management
Tel: 051 - 403 0800
Fax: 051 - 422 5333
Email: thatok@bloemwater.co.za or leratom@bloemwater.co.za

NB: *Service Providers to all departments, constitutional institutions and public entities listed in schedule 2 and 3 of the PFMA are required to self-register on the Central Supplier Database.*