

BLOEM WATER

REQUEST FOR PROPOSAL (RFP):

REQUEST FOR PROPOSAL FOR A PROJECT OF LEAK DETECTION ON BLOEM WATER PIPELINES USING SATELLITE TECHNOLOGY FOR A PERIOD OF 3 YEARS, AS AND WHEN REQUIRED

TENDER BW248/LDP/22

T1.1 : TENDER NOTICE AND INVITATION TO TENDER

Bloem Water is a Water Board, with the mandate to provide water services to the Southern and Central areas of the Free State Province. Bloem Water, formerly known as the Bloem Area Water Board, was established in 1991 in terms of Section 108(2) of the Water Act, 1956. The primary reason for establishing the Water Board was to operate the Caledon/Bloemfontein Government Water Scheme, constructed to supply purified water to the Municipal areas of Bloemfontein, Bainsvlei, Bloemspruit, Botshabelo and Dewetsdorp. The name was officially changed from "Bloem Area Water Board" to "Bloem Water" in 1994.

Bloem Water derives its primary mandate from the Water Services Act, Act 108 of 1997 and is, in terms of the Public Finance Management Act (PFMA), Act 1 of 1999, Schedule 3B, a National Government business entity, which reports to the Executive Authority, represented by the Minister of Water and Sanitation through the Department of Water and Sanitation (DWS).

During 1995 the Service Area of Bloem Water was extended to include the southern Free State, adding towns such as Bethulie and Phillippolis. In 1996 the Minister further extended the area of supply to include the Thaba Nchu district, which added the responsibility to supply water directly to the inhabitants of rural areas, in addition to the formal urban areas. This was a new field of operation for Bloem Water, which prior to that was purely a supplier of bulk purified water. This added responsibility included not only activities in rural areas, but also required the provision of the full range of activities necessary for the delivery of retail water services to the end consumer. More recently the service area has been extended to include parts of the eastern Free State up to the town of Ladybrand. Today Bloem Water supplies water to a population in excess of 1.2 million people in the areas referred to above.

Employer's Objective

The appointed Service provider will be required to provide Leak detection Services for the respective areas **Section 29 Activities and Section 30 Activities** as stipulated by the Water Services Act. The appointed service provider will cover areas where the Water Board is being utilised as an Implementing Agent for Department of Water and Sanitation (DWS) and the other assignments like the Ministerial Directives as appointed from time to time.

The Scope of Work is defined as outline below, but not limited to:

1. Satellite image to capture the entire Bloem Water pipeline network at once and any Mandates assigned to Bloem Water under Section 30 of the Water Services Act as and when needed;
2. An algorithm is used for remote detection of probable locations of water saturated areas below the Earth's surface (soil saturation degree);
3. The satellite radar image is done with SAR technology using L-band of a frequency of 1.3 GHz;
4. One satellite radar image should cover the area of Bloem Waters' area of supply (in square kilometres) or any Bloem Water mandates;
5. Satellite radar image and analysis of the Area of Interest (AOI) detecting critical water saturation areas (soil saturation degree) in delivered GIS application with provided soil moisture map of ground saturation areas;
6. The algorithm recognizes and removes all other hydrological phenomena: lakes, pools, drainage systems, water supply systems, sewage systems and other entities;
7. Detection of probable water saturation locations with an accuracy of at least +/- 1m.
8. Detection of probable water saturation locations in top soil of the earth's surface;
9. Detection of probable water saturation locations as a result of water leakages from water supply systems recognizes the water leakages in the capacity of minimum 0.1 l/min;
10. Indication of probable ground saturation locations in GIS application in different layers, analytical report in the form of GIS report, for each individual location;
11. The GIS application is immediately available to Bloem Water as a web application and as a smart phone application;
12. Training of Bloem Water staff for the use of the delivered GIS application (GIS web portal and GIS mobile field application) will be fully (up to 5 working days training);
13. The first scan of the entire network with the report and access to the GIS application with the analysis data within a maximum of 60 days from the signing of the contract.

Pre- Qualification Specific Tender Condition:

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 4** of contributor.
- (b) an EME, QSE or Generic Enterprises are eligible to tender;

"Designated group" means

- i. Black people
- ii. Black Designated group
- 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.

Where bid documents can be obtained:

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

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

The tender document will be available from National Treasury e-tenders and Bloem Water portal from **16 September 2022**.

No Briefing sessions will be held.

Completed proposals must be addressed as below and deposited before **12:00 on Tuesday, 11 October 2022** at the Tender Box situated at the Bloem Water Reception.

Area for Attention:

Supply Chain Management

Bloem Water
2 Mzuzu Street
Pellissier
Bloemfontein
9322

Each proposal must be submitted in an envelope clearly marked **"REQUEST FOR PROPOSAL FOR A PROJECT OF LEAK DETECTION ON BLOEM WATER PIPELINES USING SATELLITE TECHNOLOGY FOR A PERIOD OF 3 YEARS, AS AND WHEN REQUIRED"** with the bidder's name and address. 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.

The invitation for proposal does not amount to an invitation for offers and Bloem Water reserves the right to accept or reject any proposal or part thereof. Bloem Water reserves the right to withdraw or cancel the tender without notice or not appoint any of the tenderers.

Tenders may only be submitted on the tender documentation that has been issued. A two-envelope system will **not** be followed.

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

Should you not receive any feedback from Bloem Water after 120 days of submission, consider your tender unsuccessful.

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.*