

1. SCOPE OF WORKS

1. Background

The objective of this contract is to enable U UW asset management (Ulwandle) to continuously monitor the condition of the plant equipment in order to effectively plan maintenance activities leading to Preventative and Predictive Maintenance strategies. This will assist the organisation to improve the plant availability and equipment reliability. The fundamental objective is to ensure that the breakdowns are minimised and equipment availability and uptime increases.

2. Description of goods/ services required.

Plant equipment condition monitoring must be performed on quarterly basis. The activities to be conducted on this contract are into three sections, namely; Vibration Analysis, Oil Analysis, thermal Imaging.

Brief

a) Terms of reference including the following:

The work components to be undertaken in the following sites and waterworks.

1. Durban Heights Waterworks
2. Wiggins Waterworks
3. Inanda Dam
4. Nagle Dam
5. Hazelmere Waterworks
6. Amanzintoti Waterworks
7. Mthwalume Waterworks
8. Umzinto Waterworks
9. Lower Thukela Waterworks
10. Mhlabatshane Waterworks
11. Ludeke dam
12. Maphumulo Waterworks
13. Maphephetheni Waterworks

Pumps & Motors – Vibration analysis.

Transformers - Oil analysis

Electrical Panels - Infra-Red imaging on all critical panels.

Vibration Analysis frequency will be once (1) in three (3) months.

Oil analysis will be done once (1) in six (6) months

Infra-Red thermography will be done once (1) in six (6) months

b) From the date of award, the service provider will be given sufficient time to start the work.

c) All the sites mentioned above, will be the place where all the activities will be executed.

d) After every inspection/analysis the report will be required.

Extent of the Supply

Supplier to provide all equipment and tools, that may be required to conduct condition monitoring. Supplier to do all lockouts with operations. Safety files and an induction for all personnel before doing any work onsite.

Use of reasonable skill and care

Supplier is required to exercise reasonable skill and care whilst working on Umngeni- Uthukela premises and to adhere to all rules and regulations.

Cooperation with other Supply providers

The Supplier is to work with and accommodate Umngeni-Uthukela Water representatives whilst

performing their respective tasks.

Applicable national and international standards

- OHS Act

Approvals

- All approval for deviations or additional scope shall be submitted and approved by Project manager in writing.
- No additional work will be paid for, without an order number from Umgengi-Uthukela Water

11. Procurement

Method 2 – price and preference will be used in the evaluation

This contract is for a fixed price, if any additional work is to be carried out over and above what will be quoted for this must be quoted on and accepted by the engineer who will provide a written Umgengi Water instruction for any additional work.

Contract to be according to Umgengi Water's terms and conditions, contractor Supplier not to submit their own terms and conditions as this can and may be used to make the contractor Supplier's tender null and void.

Access to land / buildings / sites

- The site will be accessed during working hours, between 08h00 am to 16h00pm.
- Risk assessment and work permit will be issued before work commences.

Planning and programming

Planning of the work will be done via Project Manager

Software application for programming

N/A

Format of communications

Reports via electronic, i.e email on PDF format and a disc

18. Management meetings

Every two months the meeting will be held with the successful bidder and the Reliability Technicians and Maintenance Engineer, to track the progress

19. Electronic payments

Once-off payment at first and service provider to deliver.

23. Payment certificates

Payment certificates will be issued after the completion of any survey / monitoring

3. Deliverables/Key Outcomes.

Description	Indicative date for delivery
Approach the market	21 days
Award	7 days

4. Contract term

We anticipate that the Contract will commence February 2024. The anticipated Contract term are as according to Umngeni–UThukela Water SCM procedures. The contract duration is 36 months (3 years).

5. Other information

a) Payment will be done after receiving report.

6. Pricing

- a) The bidder shall provide the price proposal as detailed in SBD 3.1
- b) The bidders's price must be fully inclusive, and each item must be clearly specified.
- c) All additional costs must be clearly specified and included in the total quotation price, (e.g. transport, labour, etc.).
- d) All prices must be VAT inclusive.
- e) The bidder is responsible for all the cost that they shall incur related to the preparation and submission of the quotation.



Tender:2024/028

Condition monitoring of critical equipment at Ulwandle for a Period of Three Years