



TENDER NO. 2024/046

## SUPPLY, DELIVER AND OFF-LOADING OF POLYACRYLAMIDE FOR SLUDGE TREATMENT TO VARIOUS WATER AND WASTEWATER TREATMENT PLANTS WITHIN uMNGENI-UTHUKELA WATER

### 1. SCOPE OF WORK

#### 1. Purchaser's objectives

To insure an uninterrupted supply of Polyacrylamide to uMngeni-uThukela Water for various sites.

#### 2. Description of the Supply

The supply, delivery, and offloading Polyacrylamide for sludge treatment to various uMngeni-uThukela Water sites. The Polyacrylamide must be supplied in 25 litre/25 kg. Polyacrylamide based polymers are used for conditioning of water and wastewater sludge prior to thickening and dewatering. They do this by increasing the sedimentation rate of the sludge, provides cleaner water, and thickens the sludge at the pond's bottom for easier management and disposal.

#### 3. Extent of the Supply

The quantities listed on the pricing schedule are our best estimates but should not be considered as binding. uMngeni-uThukela Water reserves the right to either increase or decrease the quantities actually ordered. The successful supplier is required to hold stock, equivalent to one month's supply, based on average usage of product by the sites, at his premises and costs. uMngeni-uThukela Water reserves the right to audit the stock holding supplier's premises, at any time during the contractual period. Should this ever drop to a level below one month of stock, uMngeni-uThukela Water is to be immediately notified. Assurance of supply of Polyacrylamide is required as it increases the sedimentation rate of the sludge, provides cleaner water, and thickens the sludge at the pond's bottom for easier management and disposal and also to ensure that the final water and effluent provided by uMngeni-uThukela Water complies with the South African **National Drinking Water Standard (SANS 241:2015)** and General Authorisation/Special limits.

The contract will be for a period of SIXTY ( 60 ) months.

#### 4. Use of reasonable skill and care

##### Transportation of Bulk Chemicals for Deliveries

- a) The vehicle driver must be a Certified Hazchem Driver
- b) The vehicle used for delivery of chemicals must be adequately equipped to off-load Polyacrylamide at the delivery point.
- c) The vehicle must also be in sound operational condition to ensure no leakage of chemical, oils and other undesirable substances when delivering or transporting chemicals to site.
- d) The vehicle is to be clearly marked and carry all necessary safety equipment to ensure that off-loading can be conducted in a manner that will not endanger the environment or personnel.
- e) Non-compliance with the above will render the supplier in breach of contract and any remedial work arising from such situation will be for the supplier's account.
- f) The successful supplier must provide emergency contact details of a responsible person who can deal with any situation arising from a delivery or any other problem directly linked to the use of the Polyacrylamide supplied.
- g) Non-compliance with clause shall render the vehicle unfit to enter the premises. The successful supplier however, will still be responsible to ensure that the product is delivered.
- h) There must adhere to the National Road Regulations and SANS code for transport of dangerous goods.

#### 5. Co-operation with other Supply providers

##### Determination of Mass Delivered

- a) The successful supplier, at an assized Weighbridge, must determine the mass of each delivery. The method of weighing should accurately reflect the mass of the Polyacrylamide delivered. A weighbridge at the point of supply is acceptable if it is assized and the method of weighing provided by the successful supplier satisfies uMngeni-uThukela Water that the mass of chemical delivered is accurate. If no assized weighbridge is available at the point of supply, the successful supplier is to indicate which



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weighbridge is to be used. The successful supplier is to indicate the distance (in km) from the weighbridge to the delivery point and the method of weighing used to satisfy UMngeni-uThukela Water that the mass of the Polyacrylamide delivered is accurately determined.

- b) Calibration of the Weighbridge used must be certified assized for any current year by the Government assizer and bear the Official Assize Stamp.
- c) The weighbridge certificate of mass determination must be supplied within 24 hours of delivery.
- d) The use of any weighbridge other than identified above without prior notification of UMngeni-uThukela Water would constitute a breach of contract. Such notification would require confirmation by the successful supplier by fax or e-mail. *If the use of an alternative weighbridge is accepted by UMngeni-uThukela Water, the alternative must meet all the requirements as indicated in a), b) and c) above.*

## 6. Brief

The quantities listed on the pricing schedule are our best estimates but should not be considered as binding. uMngeni-uThukela Water reserves the right to either increase or decrease the quantities actually ordered. The successful supplier is required to hold stock, equivalent to one month's supply, based on average usage of product by the sites, at his premises and costs. uMngeni-uThukela Water reserves the right to audit the stock holding at the supplier's premises, at any time during the contractual period. Should this ever drop to a level below one month of stock, uMngeni-uThukela Water is to be immediately notified. The contract will be for a period of 60 months. The following containers are to remain the property of the Supplier and are to be returned to the Supplier at the Purchaser's expense: 25 l containers or 25 kg bags.

## 7. Reference data

### Non-Conformance

It must be clearly understood that should, in the opinion of uMngeni-uThukela Water, the Polyacrylamide being supplied be found at any stage of the duration of the contract to be ineffective in treating the water, or interfere with the conventional treatment process or found to be causing and damage to the infrastructure. The supplier must rectify the problem, otherwise uMngeni-uThukela Water reserves the right to buy any other chemicals necessary to ensure the satisfactory operation of the water treatment process and also to recover any costs resulting from repairs of the infrastructure. Any increase in price as a result of such change will be for the Supplier's account.

## 8. Applicable national and international standards

The successful supplier must be ISO 9000:2015 certified and must comply with the Occupational Health and Safety Act (Act 85 of 1993). The supplier must further conform to standards deemed necessary by uMngeni-uThukela Water.

## 9. Particular/Generic specifications

The sludge conditioning coagulants shall be a polyacrylamide emulsion of high molecular weight suitable for conditioning water sludge's prior to thickening.

Suppliers must provide the following information with regard to the polymer being tendered:

- a) Quality control certificate for each batch of product delivered
- b) Composition of the coagulant stating:
  - Specific Gravity

Rejection:

Umgeni Water reserves the right to reject any non-compliant delivery or to negotiate a penalty based on the loss in efficiency.

## 10. Access to land / buildings / sites



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*The service provider's employees will be subject to uMngeni-uThukela Water's access control procedures*

#### 11. Planning and programming

a) Delivery must include the offloading and stacking, if necessary at:

- Howick Wastewater Works, 29 Old Main Road, HOWICK
- Lynnfield Wastewater Works, Margaret Road, LYNNFIELD PARK
- Mpofana Wastewater Works, Commercial Road, MOOI RIVER
- Darvill Wastewater Works, New England Road Extension, PIETERMARITZBURG
- Mpophomeni Wastewater Works, MPOPHOMENI TOWNSHIP
- Midmar Water Works, Mayflower Road - off Prospect Road, HOWICK

b) Lead Time

The delivery lead-time from the date of receipt of the **order shall be not more than five working days.**

c) Time of Delivery

Deliveries to reach sites during normal working hours between the hours of 09h00 and 15h00, unless otherwise agreed to by the Superintendent of the Works. The transporter must obey the rule of entry in all the sites. In the event of a cost being incurred due to late delivery, this will be for the account of the supplier.

d) Penalty on late delivery

In the event of a cost being incurred due to late delivery, this will be for the account of the supplier.

e) Certificate of Analysis

A certificate of analysis must accompany each delivery, failing which; the delivery may not be accepted and that will also have negative impact on the performance of the supplier.

#### 12. Quality management

The supplier must remain ISO 9000:2015 and ISO 14001 accredited for the duration of the contract.

#### 13. Format of communications

The Supplier must visit the sites of uMngeni-uThukela Water on a monthly basis. The purpose of the site visit is to review the supplier's performance in terms of the contract.

#### 14. Contract Price Adjustments

- i. Transport costs will be subject to change on a 6 monthly basis and in line with **SEIFSA TABLE L.**
- ii. A 30 day notice period prior to price increases is required.
- iii. The base date shall be the 1<sup>st</sup> of the month prior to the closing date.

IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF



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THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left( D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{D4t}{D4o} \right) + VPt$$

Where:

- Pa = The escalated price to be calculated.  
(1-V)Pt = 85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**  
D1, D2.. = Each factor of the bid price e.g. labour, transport, clothing, footwear, etc. The total of the various factors D1,D2...etc. must add up to 100%.  
R1t, R2t..... = Index figure obtained from new index (depends on the number of factors used).  
R1o, R2o = Index figure at time of bidding.  
VPt = 15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations.

- iv. The following index/indices must be used to calculate tender price: (These indices must be obtained from SEIFSA using the latest publications.)

Index..... Index..... Index.....

Index..... Index..... Index.....

- vii. FURNISH A BREAKDOWN OF PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

| FACTOR<br>(D1, D2 etc. eg. Labour, transport etc.) | P | PERCENTAGE OF BID PRICE |
|----------------------------------------------------|---|-------------------------|
|                                                    |   |                         |
|                                                    |   |                         |
|                                                    |   |                         |
|                                                    |   |                         |