

1. SCOPE OF WORK

1. Background

To insure uninterrupted supply of Lime white/ brown to various sites in uMngeni-uThukela Water

2. Description of goods/ services required.

The supply, delivery, offloading and if necessary stacking of lime to various UMngeni-uThukela Water sites.

3. Extent of 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 of raw material, 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 of the raw material at the successful 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

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 lime 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 lime 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 lime 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 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 lime 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

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7. Reference Data

Non-conformance

It must be clearly understood that should, in the opinion of uMngeni-uThukela Water, the chemical being supplied be found at any stage of the duration of the contract to be ineffective in treating the water to the standards specified herein, uMngeni-uThukela Water reserves the right to buy in any other chemicals necessary to ensure the satisfactory operation of the water treatment process. Any increase in price as a result of such change will be for the Supplier's account.

Following such a change in chemical dosage, the onus will be on the Supplier to demonstrate to uMngeni-uThukela Water that the chemicals are once again capable of treating the raw water satisfactorily.

8. Applicable National and International Standards

The successful supplier must be ISO 9001:2008 certified and must comply with the Occupational Health and Safety Act (Act 85 of 1993). Hydrated lime submitted for the tender shall conform to SANS 459:2008, Table 2 – Physical and Chemical Properties of Hydrated Lime Grade 1. The supplier must further conform to standards deemed necessary by uMngeni-uThukela Water.

9. Particular/generic Specifications

Suppliers must provide the following information with regard to the product:

- a) Quality control certificate for each batch delivered comprising of the following:
 - a) silica and insoluble mineral matter %(m/m) maximum 2

- ii) available calcium oxide % (m/m) minimum 68
- iii) residue retained on sieve, normal aperture size 150µm % (m/m) <5
- (b) uMngeni-uThukela Water will conduct quality control on each batch delivered:
 - i) available calcium oxide % (m/m) minimum 68
 - ii) available lime % (m/m) minimum 55% provided the available calcium oxide is >68 %.
 - iii) residue retained on sieve, normal aperture size 150µm % (m/m) <5.
- (c) For this tender iron and manganese will be monitored.

Attention is drawn to the fact that the total available alkalinity of lime is derived from the calcium oxide or hydroxide content and not from the magnesium oxide or hydroxide content. Therefore, the quality control conducted by uMngeni-uThukela Water will only consist of determinants listed under point b above.

10. Approvals

If the distributor is going to submit the ISO certificates from their supplier. There must be an accompanying letter which shows the agreement/ relationship between the two parties

11. Procurement

Not Applicable

12. Planning and programming

Only chemicals which have been laboratory approved at uMngeni-uThukela Water's sole discretion, will receive consideration. The delivery lead-time from the date of receipt of the order shall be no more than five working days. 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. In the event of a cost being incurred due to late delivery, this will be for the account of the supplier.

A certificate of analysis must accompany each delivery, failing which; the delivery will not be accepted

13. Software application for programming

Not Applicable

14. Quality management

The successful supplier must remain ISO 9001:2008 or ISO 9001:2015 accredited for the duration of the contract. Only chemicals which have been laboratory approved at uMngeni-uThukela Water's sole discretion, will receive consideration.

15. Format of communications

The successful Supplier must visit the relevant sites of uMngeni-uThukela Water on the following frequencies

Plants	Frequently
Midmar WW	Monthly
DV Harris WW	Monthly
Durban Heights WW	Monthly

Wiggins WW	Monthly
Hazelmere WW	Monthly
Lower Thukela WW	Monthly
Maphumulo WW	Quarterly
Amanzimtoti WW	Quarterly
uMzinto WW	Quarterly
Jozini WW	Quarterly

The purpose of the site visit is to review the supplier's performance in terms of the contract and to evaluate chemical usage and make recommendations.

FOR INFORMATION USE