

**SECTION 2.1: SPECIFICATIONS AND SPECIAL CONDITIONS FOR THE SUPPLY OF PRODUCTS**

A Main bidder with an alternative bidder will be appointed. If the main bidder cannot supply within the given time, the client can make use of the alternative bidder.

**2.1.1 ITEM 1: SPECIFICATIONS OF CHLORINE GAS****2.1.1.1. RESPONSIBILITY OF THE BIDDER INCLUDES:**

- The supply of materials within the specified time frame.
- The safe off-loading and placing of the cylinders at all the chlorine sites in the Municipal area.
- The collection of empty cylinders from all the chlorine sites in the Municipal area
- The providing of Safety notices to display at all the chlorine installations in the Municipal area.

**2.1.1.2. SPECIFICATIONS OF PRODUCT:**

|                 |                |
|-----------------|----------------|
| Product         | Chlorine Gas   |
| Packaging       | 70Kg Cylinders |
| Cl <sub>2</sub> | 99.8 %         |

**2.1.1.3. SPECIAL CONDITIONS APPLICABLE FOR SUPPLY OF CHLORINE GAS:**

Due to the fact that the uninterrupted supply of Chlorine Gas and related services is of such strategic importance to the Municipality and the lives of the community, the bidder must submit the following information and/or documents with the Tender to be responsive.

The bidder must describe their back-up provisions, reserve chlorine stock and ability to deliver the chlorine, even on short notice, to ensure continuous and sufficient supply to all the plants throughout all seasons.

The bidder must provide details of the qualifications and location of emergency response team, equipment and resources available to protect the Municipality and the local community in the event of spillage or leaks of chlorine on route or at the plants. Due to the extreme Hazardous properties of chlorine gas, the bidder or his resources must be able to respond to an emergency situation within 4 hours of the emergency call.

The bidder must provide a contract with or letter from the Manufacturer of chlorine authorizing the bidder to supply and sell the chlorine for this specific Tender to our Municipality, if the bidder is not the Manufacturer.

The bidder must provide proof of authorization by Department of Environmental Affairs in terms of the Environmental Conservation Act (No.73 of 1989) for the warehousing and distribution of Hazchem products like chlorine.

Due to the hazardous nature of the product, the bidder must provide proof of that quality management (ISO 9001:2008) environmental management (ISO 14001:2004) and Occupational Health and Safety management (OHSAS 18001:2007) systems have been implemented and maintained by the Bidder.

The bidder must provide proof of authorization by the Manufacturer to perform safety audits on chlorine installations at the various sites of the Municipality. The bidder must submit a sample of a safety audit for approval.

The bidder must provide proof of his ability to provide CETA accredited training according to the Unit Standards referred to in the pricing schedule. If the bidder is not CETA accredited to provide training, a contract with a CETA accredited training provider must be submitted. All the credentials and proof of accreditation of the training provider must be submitted.

The bidder must provide proof that the Chlorine is NSF certified as safe for use in drinking water applications.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of chlorine.

The tenderer must supply a list of Water Authorities which use this product, to enable us to enquire about service delivery levels. (Email addresses and cell phone numbers)

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON-RESPONSIVE.

## **2.1.2. ITEM 2: SPECIFICATIONS OF ULTRAFLOC U3800 (or similar) AT RIVERSDAL WTP**

### **2.1.2.1. RESPONSIBILITY OF THE BIDDER INCLUDES:**

- The safe off-loading of products into storage tanks at the water treatment plant at Riversdale.
- The providing of relevant Safety notices to display at the water treatment plant at Riversdale.
- The providing of a Certificate of Analysis with each delivery.

### **2.1.2.2. SPECIFICATIONS OF PRODUCT:**

|                     |                                     |
|---------------------|-------------------------------------|
| Product             | Ultrafloc U3800 or similar          |
| Packaging           | Bulk, 1-ton Flow-bins and Mini bulk |
| SG (at 25 Celcius)  | 1.28 to 1.33                        |
| Aluminium (AL% m/m) | 9.9 to 10.9                         |
| pH (at 25 Celcius)  | 3.0 to 4.5                          |

### **2.1.2.3. SPECIAL CONDITIONS APPLICABLE FOR SUPPLY OF THE PRODUCT**

Due to the fact that the uninterrupted supply of flocculants and related services is of such strategic importance to the Municipality and the lives of the community, the bidder must submit the following information and/or documents with the Tender to be responsive.

The bidder must describe his ability to provide technical service regarding water treatment solutions if and when required. Details of experience and water treatment related qualifications and available laboratory equipment must be provided.

The bidder must provide a detailed report by an accredited laboratory as proof of the effectiveness of the product for the treatment of the raw water received at the plant without any pH adjustment if the product has not been tested and used on the plant.

The bidder must provide at least 3 references with contact numbers of plants where the product is used for the treatment of the typical coloured waters of the Western Cape.

The bidder must describe their back-up provisions, reserve stock and ability to deliver the product, even on short notice, to ensure continuous and sufficient supply to the plant throughout all seasons.

The bidder must provide a detailed description of his proposed storage tanks, dosing pumps and pipelines to be installed at Riversdale water treatment plant. The dosing system, including the storage tanks, remains the property of the bidder and must be maintained by the bidder.

The bidder must provide details of the experience and location of the repair and maintenance team for the dosing system. Due to the extreme importance of continuous dosing of flocculants, the bidder must be able to rectify dosing problems within 2 hours after notification.

The bidder must provide a contract with or letter from the Manufacturer authorizing the bidder to supply and sell the product for this specific Tender to our Municipality, if the bidder is not the Manufacturer.

The bidder must provide proof of authorization by Department of Environmental Affairs in terms of the Environmental Conservation Act (No.73 of 1989) for the warehousing and distribution of Hazchem products like aluminium chlorohydrate.

Due to the hazardous nature of the product, the bidder must provide proof of that quality management (ISO 9001:2008) environmental management (ISO 14001:2004) and Occupational Health and Safety management (OHSAS 18001:2007) systems have been implemented and maintained by the Bidder.

The bidder must provide proof that the products are NSF certified as safe for use in drinking water applications up to 1.5 times the normal dosages of the products at the plants.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of products.

The tenderer must supply a list of Water Authorities which use this product, to enable us to enquire about service delivery levels

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON-RESPONSIVE.

### **2.1.3. ITEM 3: SPECIFICATIONS OF ULTRAFLOC U3500 (or similar) AT STILBAAI WATER TREATMENT PLANT**

#### **2.1.3.1. RESPONSIBILITY OF THE BIDDER INCLUDES:**

- The safe off-loading of products into the storage tanks at the water treatment plant at Stilbaai.
- The providing of relevant Safety notices to display at the water treatment plant at Stilbaai.
- The providing of a Certificate of Analysis with each delivery.

#### **2.1.3.2. SPECIFICATIONS OF PRODUCT:**

|                     |                              |
|---------------------|------------------------------|
| Product             | Ultrafloc U3500 (or similar) |
| Packaging           | Flow-bins and Drums          |
| SG (at 25 Celcius)  | 1.20 to 1.25                 |
| Aluminium (AL% m/m) | 6.7 to 7.3                   |
| pH (at 25 Celcius)  | 3.0 to 4.5                   |

#### **2.1.4.3. SPECIAL CONDITIONS APPLICABLE FOR SUPPLY OF THE PRODUCT**

Due to the fact that the uninterrupted supply of flocculants and related services is of such strategic importance to the Municipality and the lives of the community, the bidder must submit the following information and/or documents with the Tender to be responsive.

The bidder must describe his ability to provide technical service regarding water treatment solutions if and when required. Details of experience and water treatment related qualifications and available laboratory equipment must be provided.

The bidder must provide a detailed report by an accredited laboratory as proof of the effectiveness of the product for the treatment of the raw water received at the plant without any pH adjustment if the product has not been tested and used on the plant.

The bidder must provide at least 3 references with contact numbers of plants where the product is used for the treatment of similar types of water in the Western Cape.

The bidder must describe their back-up provisions, reserve stock and ability to deliver the product, even on short notice, to ensure continuous and sufficient supply to the plant throughout all seasons.

The bidder must provide a contract with or letter from the Manufacturer authorizing the bidder to supply and sell the product for this specific Tender to our Municipality, if the bidder is not the Manufacturer.

The bidder must provide proof of authorization by Department of Environmental Affairs in terms of the Environmental Conservation Act (No.73 of 1989) for the warehousing and distribution of Hazchem products like aluminium chlorohydrate..

Due to the hazardous nature of the product, the bidder must provide proof of that quality management (ISO 9001:2008) environmental management (ISO 14001:2004) and Occupational Health and Safety management (ohsas 18001:2007) systems have been implemented and maintained by the Bidder.

The bidder must provide proof that the products are NSF certified as safe for use in drinking water applications up to 1.5 times the normal dosages of the products at the plants.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of products.

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON-RESPONSIVE.

#### **2.1.4. ITEM 4: SPECIFICATIONS OF WHITE HYDRATED LIME**

##### **2.1.4.1. THE RESPONSIBILITY OF THE BIDDER INCLUDES:**

The supply of materials within the specified time frame.  
The safe off-loading and stacking of white hydrated lime at the various Plants.  
The return of the pallets to the factory without any cost to the Municipality.  
The providing of a Certificate of Analysis with each load.

##### **2.1.4.2. SPECIFICATIONS OF PRODUCT:**

|                                   |                     |
|-----------------------------------|---------------------|
| Product                           | White Hydrated Lime |
| Packaging                         | 25kg Paper Bags     |
| Appearance                        | White Powder        |
| Calcium Hydroxide (Ca[OH]2)       | Minimum 94 %        |
| Available Lime (CaO)              | Minimum 69.0 %      |
| Calcium Carbonate (CaCO3)         | Maximum 2.00 %      |
| Moisture                          | Maximum 0.50 %      |
| Silica and Acid Insoluble Content | Maximum 2.00 %      |
| Manganese (Mn)                    | Maximum 0.01 %      |
| Aluminum (Al)                     | Maximum 0.30 %      |

|  |                                  |
|--|----------------------------------|
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | Maximum 0.20 %                   |
| Magnesium Oxide (MgO)                        | Maximum 1.00 %                   |
| Particle Size                                | Maximum 1.50 % retained on 75 um |

### 2.1.4.3. SPECIAL CONDITIONS APPLICABLE FOR PRODUCT

Due to the fact that an uninterrupted supply of with white hydrated lime for pH adjustment is of crucial importance for the stabilization of water to protect the pipe network of the Municipality, the bidder must submit the following information and/or documents with the Tender to be responsive.

The bidder must describe their back-up provisions, reserve white hydrated lime stock and ability to deliver the white hydrated lime, even on short notice, to ensure continuous and sufficient supply to all the plants throughout all seasons.

The bidder must provide a contract with or letter from the Manufacturer of white hydrated lime authorizing the bidder to supply and sell the white hydrated lime for this specific Tender to our Municipality, if the bidder is not the Manufacturer.

Due to the hazardous nature of the product, the bidder must provide proof of that quality management (ISO 9001:2008) environmental management (ISO 14001:2004) and Occupational Health and Safety management (OHSAS 18001:2007) systems have been implemented and maintained by the Bidder.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of white hydrated lime.

The tenderer must provide a proof or letter from the Manufacturer of the following products, authorizing the tenderer to supply and sell the products, if the tenderer is not the Manufacturer.

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON-RESPONSIVE.

The bidder must ensure he has sufficient staff to deliver bulk orders to the Municipality. No Municipal worker is going to assist in unloading lime bags from trucks.

### 2.1.9 ITEM 5: SPECIFICATIONS OF SODIUM CARBONATE (SODA-ASH) LIGHT

THE RESPONSIBILITY OF THE BIDDER INCLUDES:

The supply of materials within the specified time frame.

The safe off-loading and stacking of the product at the various sites in the Municipal area.

The providing of a Certificate of Analysis with each delivery.

SPECIFICATIONS OF PRODUCT:

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Product                         | Sodium Carbonate (Soda-ash) Light |
| Packaging                       | 25kg or 50 kg bags                |
| Appearance                      | White Powder                      |
| Na <sub>2</sub> CO <sub>3</sub> | 99.2% minimum                     |
| Na <sub>2</sub> SO <sub>4</sub> | 0.04% maximum                     |
| Na <sub>2</sub> O               | 58.0% minimum                     |
| Fe <sub>2</sub> O <sub>3</sub>  | 0.02% maximum                     |
| Heavy Metals as Pb              | 0.01% maximum                     |
| Water Insoluble                 | 0.05% maximum                     |

Initials of Service Provider's Authority: .....

**SPECIAL CONDITIONS APPLICABLE FOR SUPPLY OF PRODUCT:**

The bidder must describe their back-up provisions, reserve stock and ability to deliver, even on short notice, to ensure continuous and sufficient supply to all the sites if and when required.

The bidder must provide a contract with or letter from the Manufacturer or Importer of the product authorizing the bidder to supply and sell the product for this specific Tender to our Municipality, if the bidder is not the Manufacturer or Importer.

Due to the hazardous nature of the product, the bidder must provide proof of that quality management (ISO 9001:2008) environmental management (ISO 14001:2004) and Occupational Health and Safety management (ohsas 18001:2007) systems have been implemented and maintained by the Bidder.

The bidder must provide proof that the Sodium Carbonate (Soda-ash Light) is NSF certified as safe for use in drinking water.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of Sodium Carbonate.

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON RESPONSIVE.

**2.1.9 ITEM 6: SPECIFICATIONS OF CALCIUM HYPOCHLORITE (HTH)****THE RESPONSIBILITY OF THE BIDDER INCLUDES:**

The supply of materials within the specified time frame.

The safe off-loading and stacking of Calcium Hypochlorite at the various sites in the Municipal area.

The providing of a Certificate of Analysis with each delivery.

**SPECIFICATIONS OF PRODUCT:**

|            |                            |
|------------|----------------------------|
| Product    | Calcium Hypochlorite (HTH) |
| Packaging  | 25kg Plastic Drums         |
| Appearance | White Granules             |
| Chlorine   | Minimum 68 %               |

**2.1.10 SPECIAL CONDITIONS APPLICABLE FOR SUPPLY OF PRODUCT**

The bidder must describe their back-up provisions, reserve Calcium Hypochlorite stock and ability to deliver the Calcium Hypochlorite, even on short notice, to ensure continuous and sufficient supply to all the plants if and when required.

The bidder must provide a contract with or letter from the Manufacturer of Calcium Hypochlorite authorizing the bidder to supply and sell the Calcium Hypochlorite for this specific Tender to our Municipality, if the bidder is not the Manufacturer.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of Calcium Hypochlorite.

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON-RESPONSIVE.

**2.1.1.11 ITEM 7: SPECIFICATIONS OF SODIUM HYPOCHLORITE**

THE RESPONSIBILITY OF THE BIDDER INCLUDES:

The supply of materials within the specified time frame.

The safe off-loading and packing of Sodium Hypochlorite at the various sites in the Municipal area.

The providing of a Certificate of Analysis with each delivery.

**SPECIFICATIONS OF PRODUCT:**

|   |                                     |
|---|-------------------------------------|
| Product   | Sodium Hypochlorite                 |
| Packaging   | 20 litre or 200 litre Plastic Drums |
| Appearance  | Yellowish Liquid                    |
| Chlorine content as Cl <sub>2</sub> when manufactured | Minimum 15 %                        |
| Sodium Hydroxide as NaOH                              | Maximum 1.5%                        |
| SG at 20 Celcius                                      | Maximum 1.23                        |

**2.1.12 SPECIAL CONDITIONS APPLICABLE FOR SUPPLY OF PRODUCT**

The bidder must describe their back-up provisions, reserve Sodium Hypochlorite stock and ability to deliver the Sodium Hypochlorite, even on short notice, to ensure continuous and sufficient supply to all the plants if and when required.

The bidder must provide a contract with or letter from the Manufacturer of Sodium Hypochlorite authorizing the bidder to supply and sell the Sodium Hypochlorite for this specific Tender to our Municipality, if the bidder is not the Manufacturer.

The tenderer must provide proof that the Sodium Hypochlorite is NSF certified as safe for use in drinking water applications.

The bidder must provide Material Safety Data Sheets and Product Data Sheets with the typical analysis of Sodium Hypochlorite.

The bidder must adhere to all special conditions of this product and submit all documentation attached to this tender document. No requests shall be made after the tender opening for any additional information and/or documentation that was not included in this tender document. Should the bidder fail to provide the requested information and documentation the bidder shall be deemed as NON-RESPONSIVE.

**2.1.13 SPECIAL CONDITION OF CONTRACT**

The Special Conditions of Contract are supplementary to that of the General Conditions of Contract. Where however the special conditions of a contract conflict with the general conditions of contract the special conditions of contract prevail.

The tenderer must describe their back-up provisions, reserve stock and ability to deliver, even on short notice, to ensure continuous and sufficient supply to all the plants throughout all seasons. (Chlorine Liquid Gas, Ultrafloc U3800 or Similar, White Hydrated Lime (Premier), Sodium Carbonate (Soda-Ash) Light, Chloride of Lime, Calcium Hypochlorite (HTH), Sodium Hypochlorite, Sodium Carbonate (Soda-Ash) Dense)

The tenderer must provide details of the qualifications and location of emergency response team, equipment and resources available to protect the Municipality and the local community in the event of spillage or leaks of chlorine on route or at the plants until the client has signed for delivery and accepted responsibility. Due to the extreme Hazardous properties of chlorine gas.

**The tenderer must be able to respond to an emergency situation within 4 hours of the emergency call.**

The tenderer must provide yearly, and keep updated, proof of authorization by Department of Environmental Affairs in terms of the Environmental Conservation Act (No.73 of 1989) for the warehousing and distribution of Hazchem. (Chlorine gas, Ultrafloc

U3800 or Similar)

The tenderer must provide yearly, and keep updated, proof of authorization by the Manufacturer to perform safety audits on chlorine installations at the various sites of the Municipality. The tenderer must submit a sample of a safety audit for approval.

Contractor to obtain public liability insurance in the amount of R20 000 000,00

| SPECIFICATIONS  | COMPLY<br>YES/NO | Page to<br>Reference |
|---|------------------|----------------------|
| THE BIDDER DO HAVE BACK-UP PROVISIONS, RESERVE CHLORINE STOCK AND ABILITY TO DELIVER THE CHLORINE, EVEN ON SHORT NOTICE |                  |                      |
| BIDDER MUST COMPLY WITH SECTION 2.1 SPECIFICATIONS AND SPECIAL CONDITIONS   |                  |                      |
| BIDDER MUST COMPLY WITH THE PRICING SCHEDULE MBD 3.1 PRICING SCHEDULE – FIRM PRICES IN SECTION 2.2                      |                  |                      |

**Failure to provide the information as stated above, may result in your tender being declared non- responsive.**

DECLARATION,

I, THE UNDERSIGNED NAME).....  
 CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT. I ACCEPT THAT THE MUNICIPALITY MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

AUTHORISED SIGNATURE: .....

NAME: .....

CAPACITY: .....

DATE: .....

Initials of Service Provider's Authority: .....