

## BILL OF QUANTITIES

### PHASE 1: MANUFACTURING, SUPPLY AND DISTRIBUTION OF WATER TREATMENT CHEMICALS

ITEM NO	DESCRIPTION	UNIT	RATE 2025/26	RATE 2026/27	RATE 2027/28	Proposed commission for NEDA in percentage	AMOUNT
	<b>1A Water treatment chemicals</b>						
1.1.	Sodium Hypochlorite	Per kg					
1.2.	Coagulant	Per kg					
1.3.	Scientific Pills	Per kg					
1.4.	Granules	Per kg					
1.5.	Chips	Per Kg					
1.6.	Flocculant	Per kg					
1.7.	Bentonite	Per kg					
1.8.	Lime (Bulk)	Per kg					
1.9.	White Lime	Per Kg					
1.10.	Lime (Bags)	Per kg					
1.11.	Chlorine	Per kg					
1.12.	Clorine Gas	Per Kg					
1.13.	Ferric Chloride	Per Kg					
	<b>1B Laboratory Chemicals/ Regents</b>						
1.14.	DPD 1 Lovibond tablets	Per box					
1.15.	DPD 1 Chorine free powder pillow	Per pkt					
1.16.	Nitrates powder pillows HACH (Nitrates Ver 5 0.1-30mg/l)	Per pkt					
1.17.	Nitrates TNT vial HACH	Per box					
1.18.	Sulfates powder pillows HACH	Per pkt					
1.19.	Sulfates TNT 865 HACH	Per box					
1.20.	Fluoride (SPADNS 2) (Arsenic free ) HACH)	Per box					
1.21.	Ammonia powder pillows HACH ( cyanurate & Salicylate ) Nitrogen Ammonia 0.01-0.50 mg/l	Per pkt					
1.22.	Ammonia TNT 832 HR HACH	Per box					
1.23.	Ammonia TNT 831 LR HACH	Per box					
1.24.	Ammonia TNT 830 ULR HACH	Per box					

1.25.	Chloride HACH (Mercuric Thiocyanate & Ferric)	Per box					
1.26.	Phosphate powder pillow HACH (PhosVer3)	Per box					
1.27.	Phosphorus TNT 844 HR HACH	Per box					
1.28.	Zinc powder pillows HACH	Per pkt					
1.29.	Copper powder pillows HACH	Per pkt					
1.30.	Iron TNT 858 HACH	Per box					
1.31.	Manganese powder pillow HACH	Per pkt					
1.32.	Aluminium TNT 848 HACH	Per box					
1.33.	Hardness TNT 869 HACH	Per box					
1.34.	Alkalinity TNT 870 HACH	Per box					
1.35.	Lead TNT 850 HACH	Per box					
1.36.	Hyserve compact Dry EC	Per pkt					
1.37.	Hyserve compact Dry TC	Per pkt					
1.38.	Hyserve compact Dry CF	Per pkt					
1.39.	HPC FOR Quant- Tray IDEXX	Per pkt					
1.40.	Colilert 18 IDEXX	box					
1.41.	Quanti-Tray 51 wells per 100ml	box					
1.42.	Quanti-Tray/2000 97 wells per 100ml	box					
1.43.	Autoclave tape	Per pkt					
1.44.	Sodium Thiosulphate granules	Per kg					
1.45.	Calibration standards pH(4,7,10) HACH	Per bottle					
1.46.	Phenol red tablets HACH	Per box					
1.47.	Calibration standard NTU HACH	Per bottle					
1.48.	Calibration standard Conductivity 1413 µS/cm	Per set					
1.49.	Calibration standard Conductivity 1000	Per bottle					
1.50.	Filter membrane	Per box					
1.51.	Gas canister defilers	Per ml					
1.52.	Gas canister	Per no					

1.53.	KCl	Per bottle					
1.54.	COD TNT 822 HR HACH	Per box					
1.55.	COD TNT 821 LR HACH	Per box					
1.56.	IDEXX 120ml bottles with thiosulphate	Per bottle					
<b>1C Transport Cost</b>							
1.57.	Rates for transportation to municipalities and other institutions within the District	Per km					
	From 0km to 50km						
	From 51km to 100km						
	From 101km to 150km						
	From 151 km to 200km						
	From 201 to 250km						
	From 251km to 300km						
	From 301km to 350km						
	From 351km to 400km						
	From 401km to 450km						
	From 451km to 500km						
	From 501km to 550km						
	From 551 km to 600km						
	Rates for transportation to municipalities and other institutions outside of the district and the province (if the Distance is above 600km)						
<b>1D jar test and drafting of the report</b>							
1.60.	Conducting jar test and drafting of the report (Note 1)	Per water Treatment plan					
	<b>TOTAL PER YEAR</b>						

	<b>SUBTOTAL OF PHASE 1</b>		
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**Note 1:** The Jar Test results must meet the following limits: Turbidity  $\leq 3$  NTU and Aluminium concentration  $\leq 0.3$  mg/L).

**Standard procedure for Jar Test to be used:**

- Rapid mixing: 200 rpm for 2 min
- Slow mixing: 40 rpm for 8 min
- Settling: 10 min

NB! Please note that NEDA reserve right to negotiate the proposed commission rate.

**PHASE 2: WAREHOUSE DESIGN, SETUP, OPERATION AND MAINTENANCE**

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
<b>2A Warehouse Infrastructure Design</b>				
2.1.	Design of chemical storage warehouse (OHS & environmental compliant)	1		
2.2.	Fire safety design and drawings (Fire Code compliance)	1		
<b>2B Equipment Procurement</b>				
2.4.	Pallet racking systems	1		
2.5.	Spill containment kits	1		
2.6.	Climate control and ventilation systems	1		
<b>2C Inventory Management System</b>				
2.7.	Development of reporting dashboard and forecasting modules	1		
2.8.	Barcode scanners	2		
<b>2D Safety and Compliance Protocols</b>				
2.9.	Development of health, safety, and environmental protocols	1		
2.10.	Risk assessment and emergency response plan	1		
	<b>SUB-TOTAL FOR 2</b>			

**PHASE 3: FEASIBILITY STUDY FOR THE ESTABLISHMENT OF A CHEMICAL MANUFACTURING PLANT (WATER TREATMENT) PRODUCTION FACILITY**

ITEM NO	DESCRIPTION	QTY	RATE (2025)	AMOUNT
<b>3A Feasibility study for the establishment of a chemical manufacturing plant within Nkangala District</b>				
3.1.	Development of feasibility study for the establishment of chemical manufacturing plant (WATER TREATMENT) within Nkangala District: Including preparation of a comprehensive business plan with economic and operational model.	1		
<b>3B Design and Technical Documentation</b>				
3.2.	Engineering designs for chemical manufacturing plant (WATER TREATMENT) facility, including site layout and floor plan,	1		
3.3.	Environmental and regulatory compliance process and compilation of a report	1		

3.3.	Environmental impact assessment (EIA) application and authorization from the relevant authority	1		
3.4.	Strategy and Roadmap to Obtain NSF/NSI/ANSI and ISO 9001/17025 Certifications (Incl. submission of applications) and necessary approvals	1		
	<b>SUB-TOTAL PHASE 3</b>			

### SUMMARY OF BILL OF QUANTITIES

PHASE	DESCRIPTION	TOTAL AMOUNT
1	MANUFACTURING, SUPPLY AND DISTRIBUTION OF WATER TREATMENT CHEMICALS	R
2	WAREHOUSE DESIGN, SETUP, OPERATION AND MAINTENANCE	R
3	FEASIBILITY STUDY FOR THE ESTABLISHMENT OF A CHEMICAL MANUFACTURING PLANT (WATER TREATMET) PRODUCTION FACILITY	R
	<b>SUB TOTAL</b>	R
	<b>VALUE ADDED TAX @ 15%</b>	R
	<b>TOTAL INC VAT</b>	R

ITEMS NOT ON THE ORIGINAL BOQ SHALL BE QUOTED AND NEDA THROUGH ITS PROCESSES MAY APPROVE OR DISAPPROVE IN LINE WITH MARKET RELATED PRICES.

**TOTAL AMOUNT FOR PHASE ONE (01) TO PHASE THREE (03)  
TO BE FORWARDED TO THE FORM OF OFFER FORM C1.1  
(FORM OF OFFER)**