

BIDDING DOCUMENT: Water Treatment Plant

Project Name: Central Water Treatment & Distribution Plant

Tender No: TND-2025-005

Issuing Authority: Municipal Water Authority

Date Issued: March 25, 2025

Submission Deadline: April 28, 2025, 11:00 AM

Project Overview

Construction of a comprehensive water treatment plant with capacity of 50 MLD (Million Liters per Day), including intake structure, treatment units, storage reservoirs, and distribution network. Serving population: 250,000.

Scope of Work

- Intake structure and raw water pumping
- Water treatment plant with all process units
- Clear water reservoir and pumping station
- Distribution network (primary and secondary)
- Electrical and instrumentation systems
- Control room and administrative building
- Waste handling and disposal systems

Key Specifications

- Treatment Process: Conventional treatment with coagulation, flocculation, sedimentation, filtration, and disinfection
- Structures: RCC construction with waterproofing
- Pumps: Centrifugal pumps with VFD control
- Filtration: Rapid sand filters with multimedia
- Disinfection: Chlorination with residual monitoring
- Automation: SCADA system for remote monitoring

Contract Details

- Estimated Cost: \$18.2 million
- Contract Duration: 36 months
- Performance Guarantee: 10% of contract value
- Retention: 5% for 48 months post-completion
- Payment Terms: Monthly progress payments based on work completion

Price Schedule & Cost Breakdown

Item	Description	Quantity	Unit	Rate (USD)	Amount (USD)
1.0	Site Development & Preparation	1	Lump Sum	285,000	285,000
2.0	Intake Structure	1	Nos	850,000	850,000
3.0	Raw Water Pumping Station	1	Nos	1,250,000	1,250,000
4.0	Coagulation & Flocculation Units	4	Nos	185,000	740,000
5.0	Sedimentation Tanks	6	Nos	285,000	1,710,000
6.0	Rapid Sand Filters	8	Nos	165,000	1,320,000
7.0	Clear Water Reservoir	2	Nos	485,000	970,000
8.0	High Service Pumping Station	1	Nos	1,485,000	1,485,000
9.0	Chlorination System	1	Nos	285,000	285,000
10.0	Distribution Network	25	Km	125,000	3,125,000
11.0	Electrical & Instrumentation	1	Lump Sum	1,850,000	1,850,000
12.0	SCADA & Automation	1	Lump Sum	685,000	685,000
13.0	Control Room & Admin Building	1	Lump Sum	485,000	485,000
14.0	Waste Handling Systems	1	Lump Sum	385,000	385,000

15.0	Testing & Commissioning	1	Lump Sum	2,785,000	2,785,000
				TOTAL	\$18,200,000

Eligibility Criteria

- Minimum 15 years experience in water treatment projects
- Completed at least 2 water treatment plants (>30 MLD capacity)
- Valid contractor license Class A with water specialization
- Financial turnover of minimum \$30M in last 3 years
- EMD (Earnest Money Deposit): \$182,000

Contact Information

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