



Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 10466632
Procuring Entity BAGUIO WATER DISTRICT - BAGUIO CITY
Title 1 lot Supply, Delivery, Installation and Commissioning of 1 unit 20-Ft Containerized Ultra-Filtration System Permeate Capacity 70 m3 / hr
Area of Delivery Benguet

Solicitation Number: 01-JO-004	Status	Pending
Trade Agreement: Implementing Rules and Regulations		
Procurement Mode: Public Bidding	Associated Components	2
Classification: Goods		
Category: Water and Waste Water Treatment Supply & Disposal	Bid Supplements	0
Approved Budget for the Contract: PHP 25,000,000.00		
Delivery Period: 45 Day/s	Document Request List	0
Client Agency:		
Contact Person: Ma. Luisa C Tenedero Chairperson, Bids and Awards Committee BWD Compound, Utility Road Baguio City Benguet Philippines 2600 63-74-4424858 63-74-4424858 purchasing.bwd2014@gmail.com	Date Published	11/01/2024
	Last Updated / Time	10/01/2024 09:11 AM
	Closing Date / Time	31/01/2024 13:30 PM

Description

1 lot Supply, Delivery, Installation and Commissioning of 1 unit 20-Ft Containerized Ultra-Filtration System Permeate Capacity 70 m3 / hr

DESIGN BASIS

Equipment % Recovery Flow Rate Unit

Total Feed to Ultra□

Filtration System - 72.50 M³/hr.

No. of Ultra-Filtration Skid - 1 No.

Ultra-Filtration System

Feed 95% 72.50 M³/hr.

Ultra-Filtration Permeate 70.00 M³/hr.

Ultra-Filtration Reject 2.50 M³/hr.

FEED WATER ANALYSIS

Sr. No. Parameter Values Unit

1 Feed Water Source Surface water

2 pH 7.5 -8.5 mg/lit

3 Turbidity 30- 50 NTU

4 Total Suspended Solid 50-100 mg/lit

5 Total Dissolved Solids 100-5000 mg/lit

6 Oil & Grease 0-15 mg/lit

7 COD < 200 mg/lit

8 BOD < 30 mg/lit

NOTE:

The system is designed based on the feed water analysis considered in column of design.

If any changes in the feed water parameters exceeding 5% of value mentioned in feed water may affect the treated water quality and / or quantity.

Raw water temperature is considered as 25°C throughout the year for design purpose.

TREATED WATER QUALITY

Sr. No. Parameter Values Unit

1 pH 7.5 -8.5 mg/lit

2 Turbidity < 0.1 NTU

3 Oil & Grease < 1 mg/lit

4 Total Suspended Solid Nil mg/lit

5 COD < 100 mg/lit

6 BOD < 30 mg/lit

TECHNICAL SPECIFICATION

UF FEED CUM CIP PUMP:

Component Specification

Quantity 1 Nos. (W)

Material of Construction Casing & Impeller: SS 316

Capacity (Each) 70.00 m³/hr. @ 3.0 Bar

Type Horizontal Centrifugal Pump

Voltage / Phase 60 Hz / 440VAC / 3 phases

VFD NA

Accessories Location

Manual Valves Suction & Discharge of Pump

Non-Return Valve Discharge of Pump

Sampling Valve Discharge of Pump

Pressure Gauge Discharge of Pump

Skid Piping uPVC Sch 40

PRE-FILTRATION:

Component Specification

Quantity 1 No. (W)

Material of Construction UPVC Housing – 2 Nos.

Cartilages

Capacity (Each) 70.00 m³/hr. @ 3.0 Bar

Type Autoback wash Vertical cartridge

Voltage / Phase 60 Hz / 440VAC / 3 phases

VFD NA

Accessories Location

Manual Valves Suction & Discharge of Pump

Non-Return Valve Discharge of Pump

Sampling Valve Discharge of Pump

Pressure Gauge Discharge of Pump

Skid Piping uPVC Sch 40

ULTRA-FILTRATION MEMBRANE SKID:

Component Specification

Quantity 1 Set (W)

Net Permeate 70 M³/Hr.

Type Hollow Fiber

No of Modules 30 Nos.

MOC PAN (Poly Alco Nitrile)

Accessories Location

Skid Valves Pneumatically Actuated Valves

Sampling valve At Outlet

Pressure Switch At Inlet & Backwash Header

Flow Indicator At Inlet

Flow Transmitter At Outlet

Skid Piping uPVC Sch 40

Skid Frame Containerized MS Painted

UF CIP TANK:

Component Specification

Tank

Quantity 1 No.

MF Feed Tank Capacity 10,000 L

Material of Construction HDPE

Accessories

Level Switch 1 No. Provided

Drain Valve Provided

Skid Piping uPVC Sch 40

UF BACKWASH CUM CIP PUMP:

Component Specification

Quantity 1 Nos. (Working)
Material of construction Casing & Impeller: SS 316
Capacity 105.0 m³/Hr. @ 2.0 Bar
Type Horizontal Centrifugal Pump
Voltage / Phase 60 Hz/440VAC / 3 phases
Manual valves Suction & Discharge of Pump
Non-Return Valve Discharge of Pump
Sampling valve Discharge of Pump
AIR COMPRESSOR:
Component Specification
Quantity 1 No. (1 Working)
Material of construction CI
Capacity 220 m³/hr. @ 12 Bar
Voltage / Phase 60 Hz/440VAC / 3 phases
Accessories Location
Pressure Reducing Valve At MF Air Line
Air Flow Regulator Unit At Instrument Air Line
Skid Piping GI C Class
CONTROL PANEL & INSTRUMENTATION:
Component Specification
Panel PLC Based
Panel Box MS Powder Coated
Electrical cable (Within Skid) Flexible / Armored
HMI 7", Touch Screen Color
Rotameter UF Inlet
Electromagnetic Flowmeter 4-20 mA UF Permeate
Electromagnetic Flowmeter 4-20 mA UF Backwash
Approved Budget Cost: ₱25,000,000.00 / lot
Please see attached Terms of Reference (TOR)

- x x x x x
- This is a two (2) envelope system:
Envelope "A" to contain the following, among others:
- a) A refundable bid bond in the form of cash, a manager's or cashier's check equivalent to 2%, or a surety bond callable on demand issued by a surety or insurance company duly certified by the Insurance Commission equivalent to 5% of the total approved budget cost is required for a total purchase bid amount of ₱ 50,000.00 and above. The validity of the surety bond is 120 days from the date of opening of bids OR Bid Securing declaration, regardless of the amount of bid.
 - b) Terms of payment, delivery, warranty, bid validity, and complete specifications;
 - c) Brochure(s) (Original);
 - d) Proof of payment of a non-refundable fee of ₱25,000.00; otherwise, bids shall not be opened
 - e) Certificate of Authorized Distributorship or Dealership issued by the Principal Supplier to the participating bidder (with red ribbon) if none has been submitted to the BAC in its Accreditation;
-For bidders who have principal foreign suppliers, the BWD-BAC shall accept an Apostilled Certificate of Authorized Distributorship or Dealership issued by a competent authority of the host government in lieu of the Certificate of Authorized Distributorship or Dealership (with red ribbon), except for non-contracting countries to the Apostille Convention, which still require the red ribbon requirement.
-For locally produced or manufactured products, only a certificate of Authorized Distributorship or Dealership without a red ribbon is required, if applicable.
 - f) ISO Certificate issued to the principal supplier or participating bidder for the offered material or equipment brand name (if none has been submitted to the BAC in its Accreditation);
 - g) International Certificate of Warranty
- Envelope "B" to contain the bid cost per unit.

Pre-bid conference: January 19, 2024
9:30am via Zoom Application
Meeting ID: 452 718 8447
Password: 9Buvqr

Pre-bid Conference

Date	Time	Venue
19/01/2024	9:30:00 AM	Pre-bid conference: January 19, 2024 9:30am via Zoom Application Meeting ID: 452 718 8447 Password: 9Buvqr

Created by Ma. Luisa C Tenedero
Date Created 10/01/2024

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