



## Bid Notice Abstract

### Invitation to Bid (ITB)

**Reference Number** 10629191

**Procuring Entity** BAGUIO WATER DISTRICT - BAGUIO CITY

**Title** Supply, Delivery, Installation and Commissioning of one (1) unit 20-Ft Containerized Ultra-Filtration System Permeate Capacity 70 m3 / hr

**Area of Delivery** Benguet

<b>Solicitation Number:</b> 03-JO-056	<b>Status</b>	<b>Active</b>
<b>Trade Agreement:</b> Implementing Rules and Regulations		
<b>Procurement Mode:</b> Public Bidding	<b>Associated Components</b>	2
<b>Classification:</b> Goods - General Support Services		
<b>Category:</b> Water and Waste Water Treatment Supply & Disposal	<b>Bid Supplements</b>	0
<b>Approved Budget for the Contract:</b> PHP 42,000,000.00		
<b>Delivery Period:</b> 60 Day/s	<b>Document Request List</b>	3
<b>Client Agency:</b>		
<b>Contact Person:</b> 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	<b>Date Published</b>	07/03/2024
	<b>Last Updated / Time</b>	07/03/2024 00:00 AM
	<b>Closing Date / Time</b>	02/04/2024 13:30 PM

#### Description

DESIGN BASIS  
Equipment % Recovery Flow Rate Unit  
Total Feed to Ultra-Filtration  
System - 72.50 M<sup>3</sup>/hr.  
No. of Ultra-Filtration Skid - 1 No.  
Ultra-Filtration System Feed

95% 72.50 M<sup>3</sup>/hr.  
Ultra-Filtration Permeate 70.00 M<sup>3</sup>/hr.  
Ultra-Filtration Reject 2.50 M<sup>3</sup>/hr.

UF FEED CUM CIP PUMP:  
Component Specification  
Quantity 1 Nos. (W)  
Material of Construction Casing & Impeller: SS 316  
Capacity (Each) 70.00 m<sup>3</sup>/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. (Working)  
Material of Construction UPVC Housing – 2 Nos.  
Cartilages  
Capacity (Each) 70.00 m<sup>3</sup>/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 M<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/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

Supply, Delivery and Installation of two (2) 6" In-Line  
 Ultra Violet Hydro Optic Disinfection System

General Specification of UV-HOD System  
 Discharge Pipe Size: 6" diameter  
 Max. Flow Capacity: 150 m<sup>3</sup> / hr  
 Type of Lamp: 1.7Kw UV HOD medium Pressure High  
 Intensity  
 No. of Lamps: 1 x 1.7Kw MPHI Lamp  
 Max. Operating Pressure: 10 bar  
 Water Operating Temperature: Up to 60°C  
 Electric Requirements: 3 Phase x 400 / 480VAC for the  
 Ballast Module  
 (Lamp) and 1-Phase x 120 / 240VAC for the Controller  
 Construction Materials: Housing: Stainless Steel 316  
 Internals: High grade fused silica quartz

#### Disinfection Performance Criteria

The system should guarantee the following microbial load complying with the required minimum microbial parameters in the Philippine National Standard for Drinking Water:

#### Parameters Values

1. Total Coliform < 1.1 MPN / 100 mL
2. Fecal Coliform < 1.1 MPN / 100 mL
3. Heterotrophic Plate  
 Count (HPC) < 500 CFU / mL
4. E. Coli < 1 CFU / mL

#### REAL TIME MONITORING

- Automatically adjusts UV dose to changing conditions in real time.
- Displays real time status, and actual UV dose being delivered now.
- Tracks dose and validation parameters for EPA 4 log, PMO pasteurized equivalent water and FDA FSMA.
- Continuous documentation for QA and regulators.

The manufacturer will provide the following information as part of its proposal:

1. Calculations of UV Dose used for system sizing and guarantees, System sizing to be solely based on EPA UVDGM validation protocol Nov. 2006 and validated RED values.
2. The UV system shall provide the minimum Validated dose needed for 4 log inactivation of Cryptosporidium (or UVDGM table 1.4 of specific micro-organism inactivation of Cryptosporidium (or UVDGM table 1.4 of specific micro-organism log removal required for inactivation) according to LT2ESWTR under peak flow conditions with one reactor lamp output at end lamp life and under fouled conditions
3. Sleeve manufacturer certification approving that the absorption of the protecting quartz sleeve at 253.7 nanometers shall not exceed 2% per 1 mm. Thickness.
4. Minimum of Five (5) years' experience in the manufacture of closed piped ultraviolet Disinfection systems of similar design to that proposed for this project.
5. Manufacturer to provide Certificate on Exclusivity Distributorship Agreement

#### SCOPE OF WORKS

- 1) Supply, Delivery, and Installation and Commissioning of 6" UV HOD
- 2) Clean-in-Place unit
- 3) Provision of drawing for the suggested UV Installation
- 4) 1 unit 6" Digital Electromagnetic Flow Meter

Approved Budget Cost: ₱42,000,000.00 / lot  
 Please see attached Terms of Reference (TOR)  
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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, Manager's, or Cashier's check equivalent to 2% or 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.

Validity of the surety bond is 120 days from the date of opening of bids OR Bid Securing

Declaration regardless of 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 /

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 foreign principal suppliers, the BWD-

BAC shall accept an Apostilled Certificate of Authorized

Distributorship / Dealership issued by a competent

authority of the host government in lieu of the Certificate of Authorized Distributorship / Dealership (with red ribbon), except for non-contracting countries to the Apostille Convention, which still require the red ribbon requirement.

-For locally produced / manufactured products, only a certificate of Authorized Distributorship / Dealership w/o red ribbon is required if applicable;

f) ISO Certificate issued to the principal

supplier/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:

March 21, 2024

9:30am via Zoom Application

Meeting ID: 452 718 8447

Password: 9Buvqr

#### Pre-bid Conference

Date	Time	Venue
21/03/2024	9:30:00 AM	9:30am via Zoom Application Meeting ID: 452 718 8447 Password: 9Buvqr

**Created by** Ma. Luisa C Tenedero

**Date Created** 06/03/2024

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