Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 8859428

Procuring Entity BAGUIO WATER DISTRICT - BAGUIO CITY

Title 1 lot Supply, Delivery and Installation of 6" Ultraviolet Hydro Optic Disinfection System for

Water Quality Laboratory & Treatment use (Buyog Sources)

Area of Delivery

Solicitation Number:	07-055P	Status	Pending
Trade Agreement:	Implementing Rules and Regulations	Associated Components	*
Procurement Mode:	Public Bidding	Associated Components	1
Classification:	Goods - General Support Services	Bid Complements	
Category:	Industrial Safety Equipment	Bid Supplements	0
Approved Budget for the Contract:	PHP 9,550,000.00	Document Request List	0
Delivery Period:	14 Day/s	Socialities Request List	0
Client Agency:		Date Published	22/07/2022
Contact Person:	Ma. Luisa C Tenedero BAC In-House Chairman	Date Published	23/07/2022
	BWD Compound, Utility Road Baguio City Benguet	Last Updated / Time	22/07/2022 09:12 AM
	Philippines 2600 63-74-4424858 63-74-4424858 purchasing.bwd2014@gmail.com	Closing Date / Time	10/08/2022 13:30 PM

Description

1 lot Supply, Delivery and Installation of 6" Ultraviolet Hydro Optic Disinfection System

Discharge Pipe Size: 6" diameter Max. Flow Capacity: 150 m3 / 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 Real Time Tracking & Lamp Monitoring

Two (2) sensors per lamp to continuously measure 3 Parameters that affect UV dosage in real time (UV

Transmittance, Lamp Power / Status and Flow Rate) -Control system which automatically adjust lamp power -The unit should provide the minimum dose required. -Full exception reporting, alarm and alerts, security suite.

-Real Time Monitoring.

-Real-time status display of critical parameters

ULTRA VIOLET DISINFECTION CHAMBER (Chamber & UV Lamps)

1. Internal Quartz disinfection chamber to be used as the main disinfection chamber. All the influent water must flow through the quartz disinfection chamber from on side

pacing algorithm.

POWER / CONTROL MODULE / MONITORING

- 1. Each power supply (ballast) shall independently operate one lamp that is capable of 40 100 percent adjustability.
- 2. All power supply, UV intensity, UVT analyzer and flow meters will be controlled by a single controller with a touch screen which will capable of display and control of the following parameters:

- b. UV Dose (in mJ / cm2)
- c. Lamp life and efficiency for each individual lamp.

d. Power output of the Power Supply (ballast)

- e. Specific screens for calibrating UVT and UV intensity sensors.
- 3. Each control module shall have built-in automated programmed capability to operate in Dose mode.

DOSAGE

1. 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 log removal required for inactivation) according to LT2ESWATR under peak flow conditions. The basis for evaluating the UV dose and system design criteria for the UV system shall be in accordance to the manufacturer's third-party validation based on USEPA UVDGM validation protocol, Nov. 2006.

2. The validation process of the UV system must be done in the USA using the dose pacing validation, as specified in

the USEPA UVDGM validation protocol, Nov. 2006.

The UV Dose will be adjusted using an end of lamp life factor of a minimum of 0.80%.

4. The UV dose shall be capable of adjustment by a medium pressure lamp and ballast integrated system that is capable of adjusting the lamp intensity from 40 - 100 percent.

5. Should N+1 be required for system redundancy, manufacturer shall use the USEPA UVDGM validation received for the particular UV system as the design criteria for ensuring N+1 compliance.

Delivery Terms: Two (2) Weeks

- 1. Supply, Delivery and Installation 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

- 5. Warranty on parts for one (1) year from the date of delivery and monthly visit and periodic maintenance service.
- 6. Training and Supervision of O & M.

Approved Budget Cost: ₱9,550,000.00 / lot

XXXXX

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 P 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 P10,000.00; 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 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: July 29, 2022 9:30am via Zoom Application Meeting ID: 452 718 8447

Date

Password: 9Buvqr

Pre-bid Conference

Time

9:30:00 AM

Pre-bid conference: July 29, 2022 9:30am via Zoom Application Meeting ID: 452 718 8447

Password: 9Buvar

29/07/2022



Document No. ADM-PUR-F003 Effectivity Date February 15, 2020 Revision No. 00

REQUEST FOR BIDS/QUOTATION (RQ)

То:	RQ No.: 07 – 055P
(Name of Supplier)	PR / JO No.: 055P
Contact Person:	Date of RQ: July 18, 2022
Address:	Purpose of RQ:
	Water Quality Laboratory &
Contact no.:	Treatment use (Buyog Sources)

NOTE: DATA REQUIRED MUST BE FILLED UP COMPLETELY. FAILURE TO INDICATE THE PRICE VALIDITY, TERMS, WARANTY PERIOD AND DELIVERY PERIOD SHALL MEAN OUTRIGHT DISQUALIFICATION OF BIDS						
	Qty.	Description	U-Price	Total		
VALIDITY DATE:	1 lot	Supply, Delivery and Installation of 6" Ultraviolet Hydro Optic Disinfection System				
(30 days minimum)		Discharge Pipe Size: 6" diameter Max. Flow Capacity: 150 m³ / hr				
DELIVERY:		Type of Lamp: 1.7Kw UV HOD medium Pressure High Intensity				
working days calendar days FOB warehouse		No. of Lamps: 1 x 1.7Kw MPHI Lamp Max. Operating Pressure: 10 bar				
FOB Warehouse		Water Operating Temperature: Up to 60°C Electric Requirements: 3 Phase x 400 / 480VAC for the Ballast				
WARRANTY		Module				
calendar days pon acceptance.		(Lamp) and 1-Phase x 120 / 240VAC for the Controller Construction Materials: Housing: Stainless Steel 316				
TERMS:		Internals: High grade fused silica quartz				
		Real Time Tracking & Lamp Monitoring				
		Two (2) sensors per lamp to continuously measure 3				
		Parameters that affect UV dosage in real time (UV				
		Transmittance, Lamp Power / Status and Flow Rate)				
		-Control system which automatically adjust lamp power				
		-The unit should provide the minimum dose required.				
		-Full exception reporting, alarm and alerts, security suiteReal Time Monitoring.				
		-Real-time status display of critical parameters				
		ULTRA VIOLET DISINFECTION CHAMBER (Chamber & UV Lamps)				
		1. Internal Quartz disinfection chamber to be used as the				
		main disinfection chamber. All the influent water must flow	198			
		through the quartz disinfection chamber from on side of the				
		reactor to the next. Water and light shall be mixed in this				



Document No. ADM-PUR-F003 Effectivity Date February 15, 2020 Revision No. 00

REQUEST FOR BIDS/QUOTATION (RQ)

disinfection chamber. Quartz chamber shall be capable of reflecting light within the disinfection zone. Any reflective coating used inside the disinfection chamber shall not be in direct contact with the water flow path. A 316 stainless steel casing is only used as a protective casing around the main quartz chamber.

- 2.The UV system shall be equipped with Medium Pressure, High Intensity Lamps and shall be enclosed within a quartz sleeve that is no less than 5mm thick. Each lamp shall guarantee 100 percent treatment of the water flow traveling through each UV System.
- 3. The UV system shall be able to automatically adjust the power consumption between 40% 100% depending on demand and still give 100 percent disinfection.
- 4. The system shall have a UV intensity sensor per lamp. The UV intensity sensor views and monitors the UV intensity directly with no other medium in between. Each UV intensity sensor shall be connected to the master control of the UV system.
- 5. The system should have a UV Transmittance (UVT) Sensor per 2 lamps that is integrated within the UV chamber. The UVT sensor should be connected to the system controller inline and provide the UVT for the validated dose pacing algorithm.

POWER / CONTROL MODULE / MONITORING

- 1. Each power supply (ballast) shall independently operate one lamp that is capable of 40 100 percent adjustability.
- 2. All power supply, UV intensity, UVT analyzer and flow meters will be controlled by a single controller with a touch screen which will capable of display and control of the following parameters:
- a. flow rate
- b. UV Dose (in mJ / cm²)
- c. Lamp life and efficiency for each individual lamp.
- d. Power output of the Power Supply (ballast)
- e. Specific screens for calibrating UVT and UV intensity sensors.
- 3. Each control module shall have built-in automated programmed capability to operate in Dose mode.



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- 2. The validation process of the UV system must be done in the USA using the dose pacing validation, as specified in the USEPA UVDGM validation protocol, Nov. 2006.
- 3. The UV Dose will be adjusted using an end of lamp life factor of a minimum of 0.80%.
- 4. The UV dose shall be capable of adjustment by a medium pressure lamp and ballast integrated system that is capable of adjusting the lamp intensity from 40 100 percent.
- 5. Should N+1 be required for system redundancy, manufacturer shall use the USEPA UVDGM validation received for the particular UV system as the design criteria for ensuring N+1 compliance.

Delivery Terms: Two (2) Weeks

Inclusions:

- 1. Supply, Delivery and Installation 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
- Warranty on parts for one (1) year from the date of delivery and monthly visit and periodic maintenance service.
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REQUEST FOR BIDS/QUOTATION (RQ)

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 P10,000.00; 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;

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- g) International Certificate of Warranty.

Envelope "B" to contain the bid cost per unit.

Pre-bid conference: 2 9 JUL 2022

9:30am via Zoom Application Meeting ID: 452 718 8447 Password: 9Buvgr

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Deadline of submission of bids:

1 0 AUG 2022

Opening of bids: 1:30 pm

Prepared by:

M Lamangan

By: Supplier or Authorized Representative:

Noted by: ATTY. MA

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PURCHASING

ENGR. REYNALDO C. JAYCO

BAC IN-HOUSE

BAC-TECHNICAL

BWD RESERVES THE RIGHT TO REJECT BIDS &/OR DECLARE A FAILURE OF BIDDING PURSUANT TO THE PERTINENT PROVISIONS OF RA 9184

Telefax No. (074) 442-4858 (Purchasing) / 444-7246

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