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Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 4586517
Procuring Entity CAUAYAN CITY WATER DISTRICT
Title Filtration System
Area of Delivery Isabela

Solicitation Number:	2017-0613A	Status	Awarded
Trade Agreement:	Implementing Rules and Regulations	Associated Components	1
Procurement Mode:	Public Bidding	Bid Supplements	0
Classification:	Goods	Document Request List	4
Category:	Industrial Machinery and Equipment	Date Published	15/06/2017
Approved Budget for the Contract:	PHP 2,200,000.00	Last Updated / Time	16/11/2017 10:43 AM
Delivery Period:	15 Day/s	Closing Date / Time	28/06/2017 14:00 PM
Client Agency:			
Contact Person:	Carmelo Bautista Dacanay Division Manager C 166 Africano cor. Burgos Sts., District 2 Cauayan City Isabela Philippines 3305 63-78-6522196 63-78-6521622 bianong_berting@yahoo.com		

Description

Cauayan City WD Filtration System Project

1 LOT – Supply, Installation, Integration, Retrofitting, Equipment/Water Testing and Commissioning of 1 (One) Assembly – Modular Sand Media Filtration System for the Water Quality Improvement of West Tabacal Pump Station Deep Well Water source with Capacity of 22 LPS, 349.2 GPM with Manual & Automatic Backwash controller.

MSM Filtration System Include of the following:

Number of Tanks

4 Assembly – Model: 3050, Powder Coated Modular Sand Filter Steel Tanks with bolted top & side cover in reinforce plastic material

Rated Capacity of Filtration System: 180 M3/Hr.

Inlet/outlet Manifold Pipe Material: uPVC

MSMF Tank System Accessories: Pressure differential switch, solenoid switch, station decoder, pipe manifold, grooved clamp, tank back flush valve, air release, pressure release valve, valve & fittings

☐ Filtration System Controller:

Flushcon 2.4.6, solenoid type and expandable to control up to 96 tanks, settable and re-settable by time or differential pressure, actual back flush cycles re-settable time period. Power supply: 24 VDC, Flushing frequency: 1 hour to 16hours, Backwash Duration: 15 seconds to 300 seconds in 30 seconds increment.
User Parameters: Manual/Automatic, Backwash Period, Dwell time, Differential pressure delay time

☐ Filter Tank Controller:

Flushcon 2.4.6, Back Flush Controller
Specifications;
Voltage Input: 100VAC – 240 VAC, 60 HZ
Filters Available: 1-96
Back Flush Time: 15 sec. – 300 sec. in preset increments
Dwell Time: 15 sec. – 180 sec. in preset increments
Period Flush Time: 1 hour – 24 hours in preset increments
Manual Flush Time: Yes
Accumulated Flush / Time: Yes
Flush Valve / Decoder: 1
Pressure Differential Switch Capable: Yes
Max. No. of Decoders on System: 96
Decoders Programmable & Re- Programmable to
Desired Valve Number: Yes
On Board Decoder Programming Capability
Master Valve Capable: Yes
Back Flush Valve: 3 Inch x 2 Inch x 3 Inch
Prewired and mounted in another plastic enclosure
QTY: 1 assembly

☐ Filter Tank Specification:

Filter Tank Capacity: 45 M3/Hour per tank
Media Tank Capacity: 350 Kg
Pressure: 8 Bar, 116 Psi
Tank Bursting Pressure: 500 Psi
Back flush Differential pressure: 2-4psi
Material of construction: powder Coated Metal Sheet
Filter tank Diameter: 32 inch
Filter tank Height: 1500 mm
Under Drain: Heavy duty full Vertical 180 Mesh
Inlet Pipe: 3 inch
Outlet Pipe: 3 inch
Pipe Connection: Victaulic
QTY: 4 filter tank set

☐ Dosing Pump Specification:

Pump capacity: 12LPH @ 12 bars,
Moto driven, Powder supply: 220 VAC, 60 hertz, Single phase,
Pump end Material: reinforced Polypropylene plastic housing,
Protection: IP 65 protection
Feed rate: 12 liters per hour
Back Pressure Design: 12 bars
Feed Rate Control: dosing rate adjustment, stroke frequency (0-100%), double scale pulse frequency adjustment for accurate control of low output, pulses reduction from 0-100% & 0-20%, Pump End Assembly & Material: composed of solid moulded PTFE or moulded Teflon Diaphragm reinforced circumference side, liquid end construction PVDF pump head, removable and repairable suction and discharge valves sets in ceramic ball with FPM o-ring seals with air bleed valve for priming.
Installation Accessories: 2 meters PVC suction tubing, 10 meters discharge tubing, foot valve and adjustable depth injection valve
Tank Capacity: 110 Liters
QTY: 1 set

☐ Inline Static Mixer Specification

Pressure Rating: 160 psi
DiameterL 150 mm / 6 inch
Connection 4" Grooved Clamp Type
Number of Elements: 3

Material: UPVC

QTY: 1 pc

Oxidant Specification

Stabilize Chlorine Dioxide Mono Component powder

Concentration: Minimum 10% =/-2 (w/w)

Packaging: 500 grams/bag in double packaging aluminum and Hard Thick Plastic material.

Shelf Life: 2years, non-fire hazards during stocks.

State: Gas at normal temperature, normally used dissolved aqueous in Water.

Alternate Name: Chlorine Peroxide

Chemical Name: Chlorine Dioxide

Chemical Family: Inorganic compound

Molecular Formula: ClO₂

Appearance: Gas: Greenish Yellow,

Solution: pale to bright yellow

Odor: Similar to Chlorine or ozone

Odor threshold: Characteristic smell very evident @ 0.2-1 ppm

pH: not applicable

Boiling Point: 11 degrees

Freezing point: -59 degrees

Solubility (Water): 8G/L @ 15 degrees C

Specific gravity: not applicable

Evaporation Rate: not applicable

QTY: 50 bags

Filter Media Specification

M-Ceramics – used for demanganization or deferrization/demanganization, a slightly heavier specific gravity than combination with Anthracite. If iron and manganese coexist in raw water for well water treatment, Water is treated by using one tank in which Iron is removed by the Anthracite layer while Manganese is removed by M-Ceramics
Property- True Density: 2.60-2.75 g/cm³, Bulk Density: 0.95-1.05 g/cm³ Porosity: 60–75% Wearing Ratio:0.5-1.0%

Anthracite – Treated Mine Coal, Used for odor and color correction.

Q-CL501 Portable colorimeter

Q-CL501 used to test five parameters: free chlorine, chlorine dioxide, total chlorine, chlorite and combined chlorine, can test chlorine dioxide and nitrite at the same time also, can be used for water analysis both in laboratory and field test, based on EPA methods, calibrated standard curve respectively. Portable colorimeter used proper reagent of B-ARK reagent kits in 100 test.

Parameters:

Testing Items: free chlorine, chlorine dioxide, total chlorine, chlorite and combined chlorine

Testing Range:

Free chlorine: 0.01~5.0mg/L

(Customization: 0.01~10mg/L)

Chlorine dioxide: 0.02~10mg/L

Chlorite: 0.00~2mg/L

Precision: ≤3% ± 0.01

Testing method: DPD spectrophotometry

Waterproof Level: IP54

Weight: 0.15kg

Standard: USEPA (20th edition)

Power Supply: two AA batteries

Dimension (LxWxH): 160x62x30mm

Standard configuration: host machine, scissors, each kit for

No.①~⑤ reagent, colorimetric corvette (marked at 12.5mL), user manual, shielded cap, two AA batteries, carrying case.

QTY: 1 unit

Line Items

Item No.	Product/Service Name	Description	Quantity	UOM	Budget (PHP)
1	Supply, Installation,	Supply, Installation, Integration, Retrofitting, Equipment/Water Testing and Commissioning of 1 (One) Assembly –	1	Lot	2,200,000.00

Modular Sand Media Filtration System for the Water Quality Improvement		
Pre-bid Conference		
Date	Time	Venue
19/06/2017	9:00:00 AM	CCWD Conference Room, Cauayan City Water Distct, 166 J. Africano cor Burgos Sts., Cauayan City, Isabela
Other Information		
Eligibility Documents Requirements:		
1. Valid & current mayor's Permit/Business Permit		
2. Updated General Information Sheet (GIS)		
3. Annual Income Tax Return/Business Tax Return, paid thru EFPS shall be accepted		
4. Tax Clearance Certificate		
5. Philgeps Certificate of Registration- Platinum Member		
6. Must Submit LWUA Accreditation Certificate		
7. Must submit ISO Certificate		

Created by Carmelo Bautista Dacanay

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