

Republic of the Philippines
METRO COTABATO WATER DISTRICT
Governor Gutierrez Ave., Cotabato City

SUPPLEMENTAL / BID BULLETIN

ADDENDUM NO. 17-24

“Supply, Installation and Commissioning of Modular Water Treatment Facilities and Equipment with a capacity of 8000 CMD (PB-0010-2017) (PR#17-06-0750)”

This Addendum No. 17-24 dated December 27, 2017 is issued to clarify, modify or amend items in the Bidding Documents, which shall form an integral part thereof:

ISSUES	CLARIFICATIONS / AMENDMENTS
<p>Section VII. Technical Specifications</p> <p>I. Specifications:</p> <p>1. ANTI-SCALING SYSTEM (page 55) To be installed along the Supply Pipeline, but after the Pump and Motor assembly.</p> <p>2. COAGULATION & FLOCCULATION SYSTEM (page 55)</p> <p>A. Dosing Tank</p> <p>1. PAINTED/COATED WITH EPOXY</p> <p style="padding-left: 20px;">a. OUTSIDE : BLUE</p> <p style="padding-left: 20px;">b. INSIDE : WHITE</p> <p>C. Dosing Pump or Feed Pump (page 55)</p> <p>H. MODULAR COAGULATION TANK (page 55)</p> <p>1. PAINTED/COATED with EPOXY (in & out)</p> <p style="padding-left: 20px;">a. Outside : Blue</p> <p style="padding-left: 20px;">b. Inside : White</p> <p>2. THICKNESS : 9.52mm (minimum)</p> <p>I. FLOW METERS (page 55)</p> <p>2. To be installed at specific location (Prior to the start of the treatment process. See Diagram)</p> <p>3. LAMELLA SETTLERS/CLARIFIER (page 56)</p> <p>B. With Multiple High Rate Settling Plates</p> <p>1. Stainless Steel Plates</p> <p>E. Modular Clarifier/Lamella Settlers Tank (page 56)</p> <p>1. Painted/Coated with Epoxy (in & out)</p> <p style="padding-left: 20px;">a. Outside : Blue</p> <p style="padding-left: 20px;">b. Inside : White</p> <p>2. Thickness : 9.52mm (minimum)</p> <p>3. Detention Time: 1.5 meter per hour</p>	<p>Section VII. Technical Specifications</p> <p>I. Specifications:</p> <p>1. ANTI-SCALING SYSTEM (page 55) To be installed along the Supply Pipeline, but after the Pump and Motor assembly. {Anti-scaling chemical (Food Grade)}</p> <p>2. COAGULATION & FLOCCULATION SYSTEM (page 55)</p> <p>A. Dosing Tank</p> <p>1. PAINTED/COATED WITH EPOXY (in & out)-Water Based</p> <p style="padding-left: 20px;">a. OUTSIDE : BLUE</p> <p style="padding-left: 20px;">b. INSIDE : WHITE</p> <p>C. Dosing Pump or Feed Pump (page 55)</p> <p>1. Provide Spare Units</p> <p>H. MODULAR COAGULATION & FLOCCULATION TANK (page 55)</p> <p>1. PAINTED/COATED with EPOXY (in & out) (WaterBased)</p> <p style="padding-left: 20px;">a. Outside : Blue</p> <p style="padding-left: 20px;">b. Inside : White</p> <p>2. THICKNESS : 12mm Steel (minimum)</p> <p>I. FLOW METERS (page 55)</p> <p>2. To be installed at specific location (Prior to the start of the treatment process.)</p> <p>3. LAMELLA SETTLERS/CLARIFIER (page 56)</p> <p>B. With Multiple High Rate Settling Plates</p> <p>1. Stainless Steel Plates (Grade 316) or Polycarbonate plates with 50% of the total number or 1 set as spare.</p> <p>E. Modular Clarifier/Lamella Settlers Tank (page 56)</p> <p>1. Painted/Coated with Epoxy (in & out) : Water-based</p> <p style="padding-left: 20px;">a. Outside : Blue</p> <p style="padding-left: 20px;">b. Inside : White</p> <p>2. Thickness : 12mm Steel (minimum)</p> <p>3. Minimum Detention Time: 1.0 hour</p>

4. FILTRATION SYSTEM (page 56)

A. Multi-Media Filters

3. Painted/Coated with Epoxy (in & out)
 - a. Outside : Blue
 - b. Inside : White
4. Thickness : 7.92mm (minimum)
7. Two (2) Units Spare Tank with filter media (Installed)

C. Pumps and Motors (if necessary)

3. 3-Phase

G. Backwash System

1. Only one (1) Filter tank will be utilized for the backwashing of one (1) Filter Tank, while the rest shall continue to supply water

5. PRODUCT TANK (page 57)

1. Painted/Coated with Epoxy (in &out)

1. Outside : Blue
2. Inside : White

2. Thickness: 12mm (minimum) if steel
150mm (minimum) if concrete

7. CHLORINATION SYSTEM (page 58)

A. Pre-Treatment

1. Dosing Tank (if necessary)
 - a. Painted/Coated with Epoxy (in & out)
2. Dosing Pump or Feed Pump
3. Pipes/Tubes & Fittings
 - a. HDPE, PVC, AND, ETC
 - b. Fittings: Brass, PVC, & ETC

B. POST-TREATMENT

2. Dosing Pump or Feed Pump

10.SHED/ROOFING SYSTEM OR COVERING

- A. Small Footprint
- B. Covers all or each major Components
 1. Including Pathways
- C. Small Footprint
- D. Covers all or each major Components
 1. Including Pathways
- E. Roofing
 1. Blue Painted
 2. GI Rib-Type, Gauge 24

4. FILTRATION SYSTEM (page 56)

A. Multi-Media Filters

3. Painted/Coated with Epoxy (in & out): Water-based
 - a. Outside : Blue
 - b. Inside : White

4. Thickness : 7.92mm Steel (minimum)

7. Minimum of at least ten (10) Media Filter Tanks with total volume of at least eighty (80) cubic meters

8. Provide spare tanks with the same size and volume of the installed tanks with a total volume of at least thirty two (32) cubic meters

C. Pumps and Motors (if necessary)

3. Single or 3-Phase

G. Backwash System

1. Only one (1) Filter tank will be utilized for the backwashing of one (1) Filter tank, while the rest shall continually produce 8000 CMD

5. PRODUCT TANK (page 57)

1. Painted/Coated with Epoxy (in &out): Water-based

1. Outside : Blue
2. Inside : White

2. Thickness: 12mm (minimum) if steel
300mm (minimum) if concrete

5. Capacity: 210 cu.m.(min.)

7. CHLORINATION SYSTEM (page 58)

A. Pre-Treatment

1. Dosing Tank (if necessary)
 - a. Painted/Coated with Epoxy (in & out):Water-based
2. Dosing Pump or Feed Pump
 - a. Provide Spare Unit
3. With Motorized Stirrers
4. Pipes/Tubes & Fittings
 - a. HDPE, PVC, AND, ETC
 - b. Fittings: Brass, PVC, & ETC

B. POST-TREATMENT

2. Booster Pump for Vacuum Chlorinator
 - a. Provide Spare Unit

10.SHED/ROOFING SYSTEM OR COVERING

A. COVERS ALL OR EACH MAJOR COMPONENTS

1. Including Pathways

B. ROOFING

1. Blue Painted
2. GI Rib-Type, Gauge 24
3. With Insulations
4. With gutters and downspouts going to drainages
5. Could be independent to the Modular Structures

3. With Insulations
4. With Gutters and Downspouts Going to Drainages
5. Could be independent to the Modular Structure

With Standard Lighting System

11. COMMAND/CONTROL CENTER (page 59)

12. FOR COLLECTOR'S WELL SYSTEM (page 59)

A. Pump & Motor

6. Capacity: 90LPS
7. THD: 125Meters
8. Power: 150HP
9. With Flow Sleeve
10. Sand Fighter
11. 3 Phase

B. With Flow Sleeve

- C. Closed Building/Structure
- D. Serve as Spare Pump Set

II. TERMS AND CONDITIONS (page 59)

1. The Contractor shall be responsible in the preparation of all necessary detailed engineering investigation, surveys, specifications, supply, delivery, installation, permitting, and commissioning of the entire treatment facilities, including labor and materials to produce eight thousand (8,000) Cubic Meter Per Day (CMD);

5. The total backwash water must not exceed ten percent (10%) of the raw water fed to the system;

6. The Treatment Plant must be fabricated for a fully automated operations and with provisions of operating the system manually, as the need arises;

7. All Supplied items & facilities must be brand new and of high quality materials. Including its structural dimensions and specifications must conform to the respective international standards. Certificates from the Manufacturer stating the respective equipment delivered/installed are brand new confirming its serial number and model.

C. With standard lighting and convenience outlet system

11. COMMAND/CONTROL CENTER (page 59)

E. CONCRETE STRUCTURE

F. WITH ROOF

1. BLUE PAINTED
2. GI RIB-TYPE, GAUGE 24
3. WITH INSULATIONS
4. WITH GUTTERS AND DOWNSPOUTS GOING TO DRAINAGES

G. AREA: 9 SQ.M. (MINIMUM)

H. GLASS DOORS AND WINDOWS (SOLID POLYCARBONATE SHEET (3MM THICK, CLEAR)

I. AIR CONDITIONING UNIT

12. FOR COLLECTOR'S WELL SYSTEM (page 59)

A. PUMP & MOTOR

1. RATED CAPACITY : 92 LPS.
2. TDH : 125 meters
3. POWER : 150 HP
4. WITH FLOW SLEEVE
5. SAND FIGHTER
6. 3 PHASE

B. SUBMERSIBLE CABLE & SPLICING KIT

C. VFD MOTOR CONTROL

D. COLUMN PIPES (STEEL)

II. TERMS AND CONDITIONS (page 59)

1. The **Supplier** shall be responsible in the preparation of all necessary detailed engineering investigation, surveys, specifications, supply, delivery, installation, permitting, and commissioning of the entire treatment facilities, including labor and materials to produce eight thousand (8,000) Cubic Meter Per Day (CMD);

5. The total backwash water must not exceed ten percent (10%) of the raw water fed to the system; **the disposal of sludge is through the existing drainage/backwash canals;**

6. The Supplier must provide spare of each type of valves and pumps. (Including Submersible spare pump motor set for collector well)

7. The Treatment Plant must be fabricated for a fully automated operations and with provisions of operating the system manually, as the need arises;

8. All Supplied items & facilities must be brand new and of high quality materials. Including its structural dimensions and specifications must conform to the respective international standards. Certificates from the Manufacturer stating the

8. The Supplier must submit to the Metro Cotabato Water District (MCWD) the standard plans, specifications, and brochures of their offer during the bidding process;

9. Minimum warranty period of two (2) years on all supplied items or facilities, including workmanship to be reckoned after demo period within months of June-September (Turbid River Source);

10. The entire project must be completed within Two Hundred Eighty (280) calendar days period (including the Demo Period), upon the receipt of notice to proceed:

- Fabrication Period: Forty Five (45) Days;
- Installation Period: One Hundred Thirty Five (135) Days;

Demo Period: Ninety (90) Operating Days. Demo Period within months of June-September (Turbid River Source) shall only commence after the Totality of the Project in completed 100%;

11. The Supplier must submit and present the complete Detailed Specifications of the proposal, and the MCWD must conform within Fifteen (15) Days before commencing any fabrication;

12. The Supplier must submit monthly progress report and it will be closely coordinated with the MCWD Technical Personnel;

13. The Supplier must have to implement health, safety & security program for its personnel, materials and equipment during its installation period;

14. The Electric and Water consumption during fabrication/installation must be shouldered by the Supplier during the fabrication period;

15. All changes in the applicability of the Specifications/Layout during the Implementation must be approved by the Agency or its assigned MCWD Technical Personnel;

16. Demo to sell. The Supplier must operate the completed treatment facilities for Ninety (90) Calendar Days with no additional cost. Water, Power & Chlorine will be provided by MCWD (only during the Demo Period);

17. The Supplier shall provide competent technical personnel during the Demo Period of the Facility within months of June-September;

18. The Supplier shall conduct enhanced theoretical and actual orientation for technology transfer within the Demo Period for the MCWD assigned Personnel;

19. The Supplier shall allow the MCWD Technical Personnel to conduct inspections during the fabrication and installation stage on its shop/plant site;

20. Pump and Flow Meters must be calibrated by a Government Accredited Laboratories; and all Lab results must be submitted to the MCWD;

21. The Supplier must prepare and submit to the Metro Cotabato Water District (MCWD) the Standard As-Built Plans and all related manuals (and/or softwares) for operations, maintenance repair, and troubleshooting of the Treatment Plant.

22. The Bidder must submit the itemized costing of the

respective equipment delivered/installed are brand new confirming its serial number and model.

9. The Supplier must submit to the Metro Cotabato Water District (MCWD) the standard plans, specifications, and brochures of their offer during the bidding process;

10. Minimum warranty period of two (2) years on all supplied items or facilities, including workmanship to be reckoned after demo period within months of **July-October** (Turbid River Source)

11. The entire project must be completed within Two Hundred Eighty (280) calendar days period (including the demo period), upon the receipt of Notice to Proceed:

- Fabrication Period: One Hundred Thirty Five (135) Days
- Installation Period: Forty Five (45) Days;
- Demo Period: Ninety (90) Operating Days. Demo period within months of **July-October** (Turbid River Source) shall only commence after the Totality of the Project in 100% completed.

12. The Supplier must submit and present the complete detailed specifications of the proposal, and the MCWD conform within fifteen (15) days before commencing any fabrication;

13. The Supplier must submit monthly progress report and it will be closely coordinated with the MCWD Technical Personnel;

14. The Supplier must have to implement Health, Safety & Security program for its personnel, materials and equipment during its fabrication period;

15. The electric and water consumption during fabrications/installation must be shouldered by the supplier during the fabrication period;

16. All changes in the applicability of the specifications/layout during the implementation must be approved by the agency or its assigned MCWD Technical Personnel;

17. Demo to sell. The Supplier must operate the completed treatment facilities for Ninety (90) Calendar Days with no additional cost. Water, Power & Chlorine will be provided by MCWD (only during the Demo Period);

18. **PAYMENT SHALL BE MADE ONLY** to the Supplier for the completed treatment plant complying to Philippine National Standards for Drinking Water 2017 (PNSDW 2017) and production of eight thousand (8,000) cubic meters per day (minimum) even during the turbid river source. PNSDW 2017 with the following parameters: Taste, Odor, Color(Apparent), Turbidity, Aluminum, Chloride, Copper, Total Hardness, Hydrogen Sulfide, Iron PH, Sodium, Sulfate, Total Dissolved Solids, Zinc, Arsenic, Cadmium, Lead, Nitrate, Disinfectant Residual, Thermotolerant Coliform (E. Coli) & HPC.

19. The Supplier shall provide competent technical personnel during the Demo Period of Facility within months of **July-October**;

20. The Supplier shall conduct enhanced theoretical and actual orientation for technology transfer within the Demo Period for the MCWD assigned Personnel;

major components of the treatment facilities.

21. The Supplier shall allow the MCWD Technical Personnel to conduct inspections during the fabrication and installation stage on its shop/plant site;
22. Pump and Flow Meters must be calibrated by a Government Accredited Laboratories; and all Lab results must be submitted to the MCWD;
23. The Supplier must prepare and submit to the Metro Cotabato Water District (MCWD) the Standard As-Built Plans and all related manuals (and/or softwares) for operations, maintenance repair, and troubleshooting of the Treatment Plant.
24. The Bidder must submit the itemized costing of the major components of the treatment facilities.

For guidance and information of all concerned.


VENANCIO E. VILLARMA, JR.
BAC - Chairman

Received by the Bidder: _____
Date: _____