



Republic of the Philippines
ZAMBOANGA CITY WATER DISTRICT
 Pilar Street, Zamboanga City

SUPPLEMENTAL/BID BULLETIN

This Addendum is issued to clarify, modify or amend the Bid Documents. This shall form an integral part of the Bid Documents. The Bids & Awards Committee hereby issues the following amendments, clarifications & updates:

Purchase Requisition No.	Description	Approved Budget Cost (ABC)
19-0258	Design, Supply, Installation, Testing & Commissioning of Supervisory Control and Data Acquisition (SCADA) System for Existing Water Treatment Plant Phases I & II and two Production Wells	P 9,191,550.00

Addendum No. 2019-028

Previous	Revision/Additional
Section II.b (page 2) <i>It is recommended</i> that the bidder shall conduct a site inspection at the Water Treatment Plant together with the ZCWD's representative prior the bid preparation.	<i>The bidder is encouraged</i> to conduct a site inspection at the Water Treatment Plant (WTP) together with the ZCWD's representative prior the bid preparation. The purpose of this is for the bidder to consider all the equipment necessary that will enable the existing facility to be converted into a fully automated stand-alone WTP.
Section IV.B.1.b (page 7) Optimum Range: 2m Maximum Range: 3m	Optimum Range: 0m Maximum Range: 7m
	WTP valve diagram and its corresponding number of turns are shown in the attached file. Butterfly Valves to be included in the automation: 1. Inlet Valve of Raw Water: 700mmØ (No. 1) 2. Inlet Valve WTP-1A: 500mmØ (No. 5) 3. Discharge Valve of WTP-1A: 500mmØ (No. 9) 4. Inlet Valve WTP-1B: 500mmØ (No. 6) 5. Bypass Valve of WTP-1 & 2: 500mmØ (No. 4) 6. Discharge Valve of WTP-2: 600mmØ (No. 12)
	Analyzers/Sensors must be installed to monitor the Quality of Product Treated Water with the parameters of: 1. Chlorine Residual 2. PH Level 3. Turbidity
	Online turbidity analyzer/sensor as well as temperature monitoring device must be installed to monitor the Raw Water, Clarified Water and the Filtered Water. Raw Water Turbidity analyzer/sensor must be able to read up to 10,000 NTU while the rest will be up to 1,000 NTU only.
	Must provide analyzer and dosing pump for the Poly Aluminum Chloride (PAC) in the inlet chamber of Raw Water.

Previous	Revision/Additional
	<p>Dosing Pumps shall be included in automation for the following process as well other pumps used for the water treatment which may not be named herein:</p> <ol style="list-style-type: none"> 1. Chlorination 2. Aluminum Sulphate 3. Flocculants 4. Poly Aluminum Chloride <p>As such, corresponding analyzers for these processes must likewise be provided.</p>
<p>Section III.B.f (page 5) f.Equipment requirement for the production wells.</p> <ol style="list-style-type: none"> 1. 150mmØ Electromagnetic Flowmeter for Gov. Ramos Production Well 2. 100mmØ Electromagnetic Flowmeter for Brillantes Production Well 3. Two (2) SCADA System SNAP PAC (for each production well) 	<p>Section III.B.f f.Equipment requirement for the production wells.</p> <p>Remove: (1. 150mmØ Electromagnetic Flowmeter for Gov. Ramos Production Well) as existing equipment onsite will be used.</p> <p>Remove: (2. 100mmØ Electromagnetic Flowmeter for Brillantes Production Well) as existing equipment onsite will be used.</p> <p>3. Two (2) SCADA System to communicate wirelessly to the SCADA main Server at the WTP (for each production well)</p>
<p>Section III. B.e e. The winning bidder shall also supply and install the following:</p> <ol style="list-style-type: none"> 1. One (1) Turbidity Sensors for Raw Water Inlet for Phase I & II 4. Four (4) Centric Disc Butterfly Valve complete with Electric Actuator 	<ol style="list-style-type: none"> 1. Five (5) Turbidity Sensors for Raw Water Inlet, Clarified Water, and Filtered Water for both Phase I & II. 4. Six (6) Electric Actuators for the existing butterfly valves.
<p>Section IV.C.5.d (page 10) Display shall be clear and not less than 40" LCD screen</p>	<p>PLC Panel Display shall be clear and not less than 4" LCD screen.</p>
<p>Section IV.C.3g (page 9) - not less than 32 GB micro SD memory card</p>	<p>- not less than 8 MB micro memory card.</p>
<p>Section III.B.d (page 5)</p> <ol style="list-style-type: none"> 1.UL Hazardous Locations approved and ATEX compliant 3.Stainless-steel chassis with 4, 8 or 16 I/O modules 4.I/O module density of up to 24 channels per module 7.DC outputs with load switching at 0.4 A per channel at 70C 8.AC outputs with load switching at 0.5 A per channel at 70C 13.Minimum 4" Front Mount Built-in Touchscreen Human 	<p>To be removed.</p> <p>To be removed.</p> <p>To be removed.</p> <p>7.DC outputs with load switching at 0.4 A per channel @ 60°C</p> <p>8.AC outputs with load switching at 0.5 A per channel @ 60°C</p> <p>To be removed.</p>

Previous	Revision/Additional
	Automation of the chlorine neutralizing tower must be included. Two (2) units of sensors for chlorine leak detection must be installed in the chlorinator room and chlorine storage room that will serve as a trigger device to auto start the extraction fan and the chemical booster pump.
	Any hardware parts of the plant is allowed to be replaced upon discretion of the Bidder for the completeness of functionality of the automation. The replacement must be Brand New of each type and will be done without any additional charges to ZCWD.
	LigowaveEcho5D (considering the compatibility and as an existing equipment in the system) inclusive of pertinent licenses minimum of 50 ft. communication tower for Brillantes Production Well to communicate with ZCWD existing wireless network system must be included in the bid together with the necessary devices and equipment. For Gov. Ramos Production Well the existing communication facilities will be used. The existing type of connection in Gov. Ramos Production Well is Point to Multipoint (PTMP), served as a Station while the Access Point is at the Murok Tower. The Bandwidth is at 117mbps with 30mbps utilization. Gov. Ramos has only one (1) available port on its switch box. Both Production Wells must be 24 hours operational to maximize the functionality of the SCADA system.
<p>Section IV.d (page 7)</p> <p>Butterfly Valve Design: Centric disc butterfly valve, U-shaped flanged type body</p> <p>Materials: Body in Ductile Iron epoxy coated, Shaft in Stainless Steel 420</p> <p>Mounting: Direct to the electric actuator</p>	To be <i>removed</i> .
<p>Section IV.d (page 7)</p> <p>e) <i>Flowmeter for Production Wells</i></p>	To be <i>removed</i> .
90 Calendar Days of Delivery Period	120 Calendar Days of Delivery Period
	<ol style="list-style-type: none"> 1. ZCWD uses MySQL database for the remote areas outside the Water Treatment Office. 2. Any modification will be coordinated with the ZCWD-Management Information Services Division (MISD) and must be with the approval of the ZCWD General Manager. 3. ZCWD is using the subnet "/24". 4. The winning bidder will be given with one (1) IP address per station. 5. For the class of network, ZCWD is using "Class D". The subnet for WTP is "192.168.3.0/24". For Gov. Ramos Production Well, the subnet is "192.168.8.0/24". However, there is no existing station for Brillantes Production Well and the winning bidder will create a new subnet for this facility in coordination with the ZCWD-MISD.

QUERY/PARTICULAR	ANSWER/CLARIFICATION
Affidavit/Certificate of Site Inspection	As to the request for site inspection, this can be done anytime prior to the submission of the bid. Site inspection or Affidavit of Site Inspection is no longer a requirement and the absence of such in the bid will not disqualify a bidder. Please refer to GPPB NPM 081-2014.
Bidders should have completed, within <i>five (5) years</i> from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.	Please refer to ITB Clause 12 of the Philippine Bidding Documents
Bill of Quantities (BOQ) Form	The type of procurement is Goods and not Infra, so, BOQ is not required. Also, please refer to ITB Clause 13 (Documents comprising the bid: financial component) & 15 (bid prices) of the PBD.

Photos during site inspection, Photos of WTP Valve, SCADA Presentation and WTP Main Valve Diagram can be accessed in this link:

<https://drive.google.com/drive/folders/1j4zPcb-0fxCzPFA7pkx27u6VZGCljkRx?usp=sharing>

For guidance and information of all concerned.



MICHAEL ANGELO M. CARBON

Chairperson

Bids and Awards Committee

Posting date: October 30, 2019

Posted in the ZCWD Website, PhilGEPS & Bid Bulletin