



SUPPLEMENTAL BID BULLETIN NO. I

PhilGEPS Solicitation No. 9580700

Supply, Installation and Commissioning of Wireless Supervisory Control and Data Acquisition (SCADA) System at Different Baguio Water District (BWD) Pumping Stations

This bulletin is issued to clarify and include the following additional information as a result of the queries raised by a prospective bidder during the pre-bid conference and through written requests for clarifications:

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
FOR AMPARO PUMPING STATION	
<p>Probe Type Level Sensor as provision of alternative control.</p> <ul style="list-style-type: none">Is this going to be supplied in the bid?What is the specification?Will the bill of quantities be revised and include this device?What is the required control philosophy?	<p>The BWD has an existing probe type level sensor.</p>
<p>What are minimum provisions required by BWD to protect devices against moisture?</p> <p>Also, for enclosure panel to prevent damaging the electronic components such as PLC, HMI etc.?</p>	<p>None required due to indoor set-up/ installation of the equipment.</p>
<p>Valve with Electraulic Actuator</p> <p>The TERM "ELECTRAULIC" is a trademark unique only to a specific brand named REXA. Although brand "REXA" is not mentioned in the bid document, the specification mentioned with the use of term "ELECTRAULIC" directly referenced and trademarked / owned to the Brand REXA itself.</p> <p>We would like to request from BWD to replace the term "ELECTRAULIC" into a common relevant characteristic / performance functionality for bidders to provide opportunity to propose an equivalent brand.</p>	<p>The term electraulic is to be replaced with electro-hydraulic.</p>

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
FOR AMPARO PUMPING STATION	
<p>Functionality as mentioned during prebid is “On / Off” or “Open / Close” for Valve actuator. We would like to clarify if the specification mentioning DEADBAND, RESOLUTION, REPEATABILITY, LINEARITY, and PUSH BUTTON CALIBRATION, are functions pertaining to VALVE/ACTUATOR?</p> <p>Will it need a separate controller/ module separate from the PLC? If it is indeed a separate device, we would like to request to specify the exact function.</p>	<p>Yes, the deadband, resolution, repeatability, linearity, and push button calibration pertain to valve/ actuator controller.</p>
<p>According to the web site “ELECTRAULIC” Function of REXA shows use of another CPU board and electrical component. What is the characteristic / function equivalent to the standard valve and actuator pertaining to the “ON/OFF” / “OPEN/CLOSE” Functions?</p>	<p>The term electraulic is to be replaced with electro-hydraulic. REXA is not mentioned in the TOR.</p>
<p>Pressure Transmitter</p> <p>As surveyed, no provisions for installation for Pressure transmitter instrument, is the bidder responsible for boring/ preparation and use of accessories such as isolation valve, etc. for the mounting of the sensor?</p>	<p>Yes.</p>
<p>Can BWD confirm if the HART feature will be or will not be integrated in the PLC for centralized remote access monitoring? This is because of the specified HART function available for Pressure Transmitter but did not mention any HART module for PLC?</p>	<p>HART communication may be proposed but is not required in the PLC.</p>
<p>Outdoor installation of sensor: LCD display concern when exposed to sunlight will most likely damage the display. What is BWD’s recommendation for bidders to follow?</p>	<p>Outdoor installation is not mentioned in the bid docs.</p>
<p>Ultrasonic Level Monitor</p> <p>Open Channel Flow function</p> <p>Can BWD clarify as to where will the function be used in actual site? As surveyed, Amparo, Balsigan and BGH level monitoring is for Tank (ground reservoir application)</p>	<p>Open channel flow function is for the possible transfer of asset.</p>
<p>5 SPDT Relay:</p> <p>Can BWD specify the required functions for the relay? Also, if this will be wired and connected to the PLC?</p>	<p>For future expansion for motor controls. Yes, it will be wired and connected to the PLC.</p>

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
FOR AMPARO PUMPING STATION	
Can BWD confirm if the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic?	HART communication may be proposed but is not required in the PLC.
This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	
Electromagnetic Flow meter For the “Reduced Bore” terminology, is this pertaining to the reduction in bore section of the device for increased low flow Accuracy?	Yes.
Clarification on the 5 IO modules, is this pertaining to the PLC modules? If not, what are the functions of the 5 IO on the flow meter instrument? If yes, will the IO be connected to PLC?	Yes, for future expansion of the motor control.
Can BWD confirm If the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic? This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	HART communication may be proposed but is not required in the PLC.
1,3 units 8” Flow meter (section C page 7), Can BWD advise the final Quantities for 8” size?	With typographical error. This should be: supply, installation, and commissioning of 3 units 8” Electromagnetic Flow Meter
As surveyed in site, the 20m cable length is not sufficient for some areas where the flow meter sensor to transmitter, what new length of cable will BWD recommend for all bidders to follow?	20m is proposed on-site; however, cable length may vary depending on the actual installation requirements or as surveyed by the winning bidder.
PLC Components FAT (Factory Acceptance Testing) / Inspection: What is BWD’s minimum requirement for execution of FAT? Will this be applicable only for SCADA/PLC or also with the instrumentation (Electromagnetic Flow meter, Valve with Actuator, Pressure, Radio)? What is BWD’s preference of location? This is so bidders can be aligned on the current standard of BWD.	Refer to Volume 2 of 2, VIII. Quality Assurance

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
FOR AMPARO PUMPING STATION	
32 Point IO (input) module Based on the IO calculation, depending on the response of BWD for Ultrasonic Level and Electromagnetic Flow meter the quantity might not be enough. Also consider the IO for motor control. Can BWD advise and adjust required IO?	32 Point IO will be changed to 64-point IO (input).
Can BWD confirm if the Motors will be integrated to the PLC? If yes, can BWD advise the total qty of IO will be prescribed?	No. This is for future expansion.
FOR BALSIGAN PUMPING STATION	
Probe Type Level Sensor as provision of alternative control. <ul style="list-style-type: none"> Is this going to be supplied in the bid? What is the specification? Will the bill of quantities be revised and include this device? What is the required control philosophy? 	The BWD has an existing probe type level sensor.
What are minimum provisions required by BWD to protect devices against moisture? Also, for enclosure panel to prevent damaging the electronic components such as PLC, HMI etc.?	None required due to indoor set-up/ installation of the equipment.
FAT (Factory Acceptance Testing) / Inspection: What is BWD’s minimum requirement for execution of FAT? Will this be applicable only for SCADA/PLC or also with the instrumentation (Electromagnetic Flow meter, Valve with Actuator, Pressure, Radio)? What is BWD’s preference of location? This is so bidders can be aligned on the current standard of BWD.	Refer to Volume 2 of 2, VIII. Quality Assurance
Pressure Transmitter As surveyed, no provisions for installation for Pressure transmitter instrument, is the bidder responsible for boring/ preparation and use of accessories such as isolation valve, etc. for the mounting of the sensor?	Yes.

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
FOR BALSIGAN PUMPING STATION	
Can BWD confirm If the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic? This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	HART communication may be proposed but is not required in the PLC.
Outdoor installation of sensor: LCD display concern when exposed to sunlight will most likely damage the display. What is BWD’s recommendation for bidders to follow?	Outdoor installation is not mentioned in the bid docs.
Ultrasonic Level Monitor Open Channel Flow function Can BWD clarify as to where will the function be used in actual site? As surveyed, Amparo, Balsigan and BGH level monitoring is for Tank (ground reservoir application)	Open channel flow function is for the possible transfer of asset.
5 SPDT Relay: Can BWD specify the required functions for the relay? Also, if this will be wired and connected to the PLC?	For future expansion for motor controls. Yes, it will be wired and connected to the PLC.
Can BWD confirm If the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic? This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	HART communication may be proposed but is not required in the PLC.
Electromagnetic Flow meter For the “Reduced Bore” terminology, is this pertaining to the reduction in bore section of the device for increased low flow Accuracy?	Yes.
Clarification on the 5 IO modules, is this pertaining to the PLC modules? If not, what are the functions of the 5 IO on the flow meter instrument? If yes, will the IO be connected to PLC?	Yes, for the future expansion of the motor control.

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
FOR BALSIGAN PUMPING STATION	
Can BWD confirm If the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic? This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	HART communication may be proposed but is not required in the PLC.
As surveyed in site, the 20m cable length is not sufficient for some areas where the flow meter sensor to transmitter, what new length of cable will BWD recommend for all bidders to follow?	20m is proposed on-site; however, cable length may vary depending on the actual installation requirements or as surveyed by the winning bidder.
PLC Components FAT (Factory Acceptance Testing) / Inspection: What is BWD's minimum requirement for execution of FAT? Will this be applicable only for SCADA/PLC or also with the instrumentation (Electromagnetic Flow meter, Valve with Actuator, Pressure, Radio)? What is BWD's preference of location? This is so bidders can be aligned on the current standard of BWD.	Refer to Volume 2 of 2, VIII. Quality Assurance
32 Point IO (input) module Based on the IO calculation, depending on the response of BWD for Ultrasonic Level and Electromagnetic Flow meter the quantity might not be enough. Also consider the IO for motor control. Can BWD advise and adjust required IO?	32 Point IO (input) module will suffice.
Can BWD confirm if the Motors will be integrated to the PLC? If yes, can BWD advise the total qty of IO will be prescribed?	No. This is for future expansion.

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
BGH TANK FACILITY	
Ultrasonic Level Monitor Open Channel Flow function: Can BWD clarify as to where will the function be used in actual site? As surveyed, Amparo, Balsigan and BGH level monitoring is for Tank (ground reservoir application)	Open channel flow function is for the possible transfer of asset.
5 SPDT Relay Can BWD specify the required functions for the relay? Also if this will be wired and connected to the PLC?	For future expansion for motor controls. Yes, it will be wired and connected to the PLC.
Can BWD confirm if the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic? This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	HART communication may be proposed but is not required in the PLC.
Electromagnetic Flow meter For the “Reduced Bore” terminology, is this pertaining to the reduction in bore section of the device for increased low flow Accuracy?	Yes.
Clarification on the 5 IO modules, is this pertaining to the PLC modules? If not, what are the functions of the 5 IO on the flow meter instrument? If yes, will the IO be connected to PLC?	Yes, for the future expansion of the motor control.
Can BWD confirm if the (HART) diagnostic feature will be integrated in the PLC for centralized remote access monitoring/Diagnostic? This is because of the specified HART function available for flow meter but did not mention any HART module for PLC?	HART communication may be proposed but is not required in the PLC.
As surveyed in site, the 20m cable length is not sufficient for some areas where the flow meter sensor to transmitter, what new length of cable will BWD recommend for all bidders to follow?	20m is proposed on-site; however, cable length may vary depending on the actual installation requirements or as surveyed by the winning bidder.

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
BGH TANK FACILITY	
<p>PLC Components</p> <p>FAT (Factory Acceptance Testing) / Inspection:</p> <p>What is BWD’s minimum requirement for execution of FAT?</p> <p>Will this be applicable only for SCADA/PLC or also with the instrumentation (Electromagnetic Flow meter, Valve with Actuator, Pressure, Radio)?</p> <p>What is BWD’s preference of location?</p>	<p>Refer to Volume 2 of 2, VIII. Quality Assurance</p>
<p>32 Point IO (input) module: Based on the IO calculation, depending on the response of BWD for Ultrasonic Level and Electromagnetic Flow meter the quantity might not be enough. Also consider the IO for motor control. Can BWD advise and adjust required IO?</p>	<p>32 Point IO (input) module will suffice.</p>
<p>Can BWD confirm if the Motors will be integrated to the PLC?</p> <p>If yes, can BWD advise the total qty of IO will be prescribed</p>	<p>No. This is for future expansion.</p>
WIRELESS INFRASTRUCTURE COMMUNICATION SYSTEM	
<p>Wireless Design</p> <p>As surveyed, can BWD confirm that no Tower and LA will be installed in the HQ site?</p>	<p>Refer to Volume 2 of 2, IV-E Item 1.c</p>
<p>As surveyed, there is no area available for Balsigan and BGH sites to construct guyed monopole tower of 80ft and 40ft respectively, what will be BWD’s recommendation so all bidders will be aligned to follow on the structure?</p>	<p>BWD maximized the area available. Please refer to Volume 2 of 2, IV – E, Item No. 2: “may vary depending on the design and the technology used.”</p>
<p>5/7/10 pcs Wireless Radio: can BWD advise the meaning of the quantities mentioned?</p>	<p>Configurable channel bandwidth. Please refer to Volume 2 of 2, IV – E, Item No. 2: “may vary depending on the design and the technology used.”</p>

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WIRELESS INFRASTRUCTURE COMMUNICATION	
<p>As mentioned in the bid that “radio hardware may vary depending on the design”</p> <p>We would like to confirm if the existing design of “DUAL CHAIN” antenna can be replaced with bidder’s recommended and open specification to comply with the existing weather conditions present on site while maintaining reliability and redundancy on the backbone structure.</p>	<p>Yes. Please refer to Volume 2 of 2, IV – E, Item No. 2: “may vary depending on the design and the technology used.”</p>
<p>We would like to request BWD to specify and confirm the weight and wind velocity standard requirement for the Antenna Pole/Tower structure for Amparo, Balsigan, BGH and Cabuyao sites? This is so all bidders can have a common baseline on the design and structure that will be used in the project.</p>	<p>Please refer to Volume 2 of 2, IV – E, Item No. 2: “may vary depending on the design and the technology used.”</p>
<p>Kabuyao/Cabuyao Repeater</p> <p>We would like to request to specify what scope of works will be required for rehabilitation works that will be done on the existing Antenna Pole?</p>	<p>Please refer to Volume 2 of 2, IV-E, Item 3: “...Consumables - Guy wires, paint, and other materials deemed necessary...”</p>
<p>As surveyed, we would like to request what weight and wind capacity will be expected on the existing pole for the rehabilitation?</p>	<p>This is for the supplier/bidder to conduct inspection and assess the tower because no existing documentation is available for its design.</p>
<p>Consumables</p> <p>Can BWD advise the extent of the rehabilitation of the existing pole for bidder to identify the materials needed to be done on the existing structure?</p>	<p>This is for the supplier/bidder to conduct inspection and assess the tower because no existing documentation is available for its design.</p>
<p>We would like to request the current structural analysis on the existing pole, this is for the bidder to know how much current weight the pole and wind survival it can withstand since the SAFETY and INTEGRITY of the backbone of the communication heavily depends on the structure.</p>	<p>This is for the supplier/bidder to conduct inspection and assess the tower because no existing documentation is available for its design.</p>

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC
Amparo discharge water Flowmeter Kindly confirm if 1 unit or 3 units of Supply, installation and commissioning of 8” Electromagnetic Flow Meter	With typographical error. This should be: supply, installation, and commissioning of 3 units 8” Electromagnetic Flow Meter
BGH Tank Facility discharge water Flowmeter 1 unit 6” Electro-Magnetic Flowmeter: Kindly confirm if 6” or 16” Electromagnetic Flow Meter.	Refer to Volume 2 of 2, IV-D, Item No. 4 – a “1 unit 6” (six inch) Electromagnetic Flowmeter”
Financial Audited Statement if minimum of 2 years or 5 years is required.	The bidder’s audited financial statements, showing, among others, the bidder’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.
As to “2xRPSMA connectors “, can we propose it to be replaced as “2*N-type Connectors”? N-type connector has stronger ability of waterproof, anti-corrosion and transmission ability.	Yes. Please refer to Volume 2 of 2, IV – E, Item No. 2: “... <i>may vary depending on the design and the technology used</i> ”.
May we suggest adding a Long-Distance Communication Protocol into the Wireless system?	Yes. Please refer to Volume 2 of 2, IV – E, Item No. 2: “... <i>may vary depending on the design and the technology used</i> ”.
Will the equipment frequency up to 5.8Ghz be acceptable? higher frequency will provide wider bandwidth, and higher-speed data transmission	Yes. Please refer to Volume 2 of 2, IV – E, Item No. 2: “... <i>may vary depending on the design and the technology used</i> ”.
Can we clarify what is the meaning of “Dual Chain”	This refers to 2.4Ghz or 5Ghz connection.
PLC TRAINING	
What is your preferred training location? Outside the Philippines or in Metro Manila or On-site training only?	This will depend on the proposal of the bidder.
ACTUATOR VALVE	
The Technical Specs of the Valve point out to only one specific brand. The word Electraulic is a trademark brand.	The term electraulic is to be replaced with electro-hydraulic.

QUERIES FROM PROSPECTIVE BIDDERS	BWD-BAC		
REQUIRED DOCUMENTS			
What is the required PCAB Category?	The bidder must have a PCAB license for government contracts		
An SLCC that is similar to the contract to be bid, and whose value, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price indices, must be at least fifty percent (50%) of the ABC. Provided, however, that contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB, does this mean that if a bidder has a similar project, the category of PCAB will no longer matter?	Please refer to PCAB Board Resolution numbered 201, series of 2017.		
Given the size and the scope of the project and upcoming Holidays, we think the time allotted for the bid preparation is tight. May we respectfully request for the extension of the deadline of the bid submission.	No extension of time to submit bids is warranted nor justified.		
The Interconnect of five (5) strategic sites/areas Amparo pumping station, Balsigan pumping station, Baguio General Hospital tank facility, Mount Kabuyao repeater facility, and the BWD Main Office (HQ) using free frequency mode Wall-mount wireless receiver antenna at BWD HQ	Faciity	Latitude	Longitude
What are the coordinates of the sites?	BWD Main Office	16°24'20.97"N	120°36'13.63"E
	Mount Kabuyao Repeater Facility	16°21'47.69"N	120°33'28.43"E
	Amparo P.S.	16°23'18.37"N	120°35'57.45"E
	Balsigan P.S.	16°23'50.01"N	120°35'46.40"E
Requesting the IO list per site	BGH Tank	16°24'2.12"N	120°35'48.21"E
	Amparo P.S.	64 Point IO	
	Balsigan P.S.	32 Point IO	
BGH Tank	32 Point IO		
END			

All other terms, conditions and specifications indicated in the bid documents for this particular procurement shall remain valid, applicable and in force and effect.

Issued this 4th day of April 2023.

Bids and Awards Committee:


ATTY. MA LUISA C. TENEDERO
Chairperson


ENGR. FERNANDO A. PERIA
Vice-Chairperson


ENGR. REYNANT I. DE TORRES
Member


ENGR. NORIEL C. CALPITO
Member


GEOVANI L. PIZA
Member


ENGR. MICHAEL JORDAN SISON
Member


ENGR. SHAYNE MARGIE S. ABELLERA
Member