



May 13, 2024

SUPPLEMENTAL/BID BULLETIN NO. 01

CONTRACT NO. MARIIS-HO-2024-G-06
SUPPLY, DELIVERY, INSTALLATION, AND COMMISSIONING OF WATER DISCHARGE
MANAGEMENT SYSTEM ALONG LATERAL-A HEAD GATE AND LATERAL-D2
HEAD GATE

This Supplemental/Bid Bulletin No. 01 is issued to all prospective bidders to clarify, modify, and/or amend the change in the Schedule of Requirements and Technical Specifications as posted in the Invitation to Bid on the PhilGEPS website, thus:

Changes in Section VI (Schedule of Requirements) of the
Philippine Bidding Document

PARTICULAR	FROM	TO
4	Engineering Services Supply, Delivery, Installation, and Configuration, -Service Level Agreement for 3 Years (includes every 6 Months Maintenance) -With FAT-Factory Acceptance Test for 5 days (for 3 End-users)	Engineering Services <ul style="list-style-type: none"> - Supply, Delivery, Installation and Configuration - Maintenance for 3 Years (every 6 months) - With FAT (Factory Acceptance Test) - Trainings (Operation and Maintenance), including actual on-site Training
6	Training -Trainings (Operation and Maintenance), including actual on-site Training Two trainings shall be provided, details are as follows: System Operational and Maintenance Training 1.) At least ten (10) personnel should be trained to operate and maintain the system. 2.) Representation expenses shall be provided during the program. This will be borne by the winning bidder.	Training -Trainings (Operation and Maintenance), including actual on-site Training Two trainings shall be provided, details are as follows: <ul style="list-style-type: none"> - System Operational and Maintenance Training - At least thirty (30) personnel should be trained to operate and maintain the system. - Representation expenses shall be provided during the program. This will be borne by the winning bidder.



	3.) Course Materials and a Certificate of Participation must also be provided.	Course Materials and a Certificate of Participation must also be provided.
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**Changes in Section VII (Technical Specifications) of the
Philippine Bidding Document**

PARTICULAR	FROM	TO
TS-3	<p>Scope of Works</p> <p>The Contractor shall carry out all the installation works by furnishing all labor, materials, equipment, and all other supplies necessary to complete the installation works in accordance with the specification and as per the industry standard.</p> <p>The Contractor shall provide complete details of proper handling, transport and storage, installation, testing, and performance guarantees.</p> <p>The Contractor shall ensure that the equipment is installed in accordance with the manufacturer's recommendations, check control system hardware and software configuration, perform logic configuration changes or additions, and perform tuning adjustments necessary to place the system in trouble-free operation. Instruct the operating personnel in the proper operation and maintenance of the equipment furnished and perform hardware troubleshooting and/or installation. An experienced engineer/service technician, as a minimum, is required for this task.</p> <p>Equipment should be properly grounded.</p>	<p>Scope of Works</p> <p>The Contractor shall carry out all the installation works by furnishing all labor, materials, equipment, and all other supplies necessary to complete the installation works in accordance with the specification and as per the industry standard.</p> <p>The Contractor shall provide complete details of proper handling, transport and storage, installation, testing, and performance guarantees.</p> <p>The Contractor shall ensure that the equipment is installed in accordance with the manufacturer's recommendations, check control system hardware and software configuration, perform logic configuration changes or additions, and perform tuning adjustments necessary to place the system in trouble-free operation. Instruct the operating personnel in the proper operation and maintenance of the equipment furnished and perform hardware troubleshooting and/or installation. An experienced engineer/service technician, as a minimum, is required for this task.</p> <p>Equipment should be properly grounded.</p>

	<p>The Contractor shall submit a calibration certificate to the end-user.</p> <p>The Service Level Agreement shall be shouldered by the contractor for 3 years and will execute a memorandum of agreement with NIA-MARIIS-HO.</p> <p>The contractor must submit to NIA-MARIIS-HO a Work Schedule for the implementation of the project and a list of personnel that will be working on the project for a work permit and pass clearance.</p> <p>The contractor must submit to NIA-MARIIS-HO an S-CURVE for the implementation of the project, and it must be submitted upon receiving the Notice to Award.</p> <p>Necessary materials, tools, equipment, labor, and other expenses for the site inspection, delivery, installation, and commissioning at the site will be shouldered by the contractor.</p> <p>The contractor must have a registered Electronics Engineer to supervise the installation, configuration, and commissioning of the Water Discharge Management System.</p> <p>The contractor must have a registered Civil Engineer/technical personnel to supervise the construction of the fence and erection of the metal box pole and other necessities will be conformed/referred with the drawing plan and specification provided by NIA.</p> <p>The Contractor together with NIA-MARIIS-HO representatives shall</p>	<p>The Contractor shall submit a calibration certificate to the end-user.</p> <p>The contractor must submit to NIA-MARIIS-HO a Work Schedule for the implementation of the project and a list of personnel that will be working on the project for a work permit and pass clearance.</p> <p>The contractor must submit to NIA-MARIIS-HO a S-CURVE for the implementation of the project, and it must be submitted upon receiving the Notice to Award.</p> <p>Necessary materials, tools, equipment, labor, and other expenses for the site inspection, delivery, installation, and commissioning at the site will be shouldered by the contractor.</p> <p>The contractor must have a registered Electronics Engineer to supervise the installation, configuration, and commissioning of the Water Discharge Management System.</p> <p>The contractor must have registered Civil Engineer/technical personnel to supervise the construction of the fence and erection of the metal box pole and other necessities will be conformed/referred with the drawing plan and specification provided by NIA.</p> <p>The Contractor together with NIA-MARIIS-HO representatives shall conduct a site inspection before performing the civil works of the project.</p> <p>The contractor must secure a pouring permit first to NIA-</p>
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	<p>conduct a site inspection before performing the civil works of the project.</p> <p>The contractor must secure a pouring permit first to NIA-MARIIS-HO before pouring fresh cement.</p> <p>Request for extension of schedule must be mutually agreed upon by both parties.</p>	<p>MARIIS-HO before pouring fresh cement.</p> <p>Request for extension of schedule must be mutually agreed upon by both parties.</p>
<p>TS-4</p>	<p>Discharge Water Flow Meter with Complete Accessories</p> <p>Standard Features:</p> <ul style="list-style-type: none"> - Acoustic Doppler Current Meter - Side-Looking-Doppler for continuous discharge measurement in rivers and open channels. - Flow computation and output, including total volume - Multi-parameter instrument: Water velocity, level, flow, and total volume - Able to display water level measurement - Able to display velocity measurement - Canal Mount is needed (Stainless/Non-corrosive mounting materials) <p>Minimum Requirements:</p> <ul style="list-style-type: none"> — Flow meter velocity range: up to 10m/s — Water Level: capable of measuring levels from 0.15 meter to 10 meters - Power Requirements: 12-16 VDC - Communications ports: Compatible with the Data Logger port 	<p>Discharge Water Flow Meter with Complete Accessories</p> <p>Standard Features:</p> <ul style="list-style-type: none"> - Acoustic Doppler Current Meter - Side-Looking-Doppler for continuous discharge measurement in rivers and open channels. - Flow computation and output, including total volume - Multi-parameter instrument: Water velocity, level, flow, and total volume - Able to display water level measurement - Able to display velocity measurement - Canal Mount is needed (Stainless/Non-corrosive mounting materials and adjustable) - Accuracy: +/- 1% of measured value or better - No. of measuring Cells: atleast 9 <p>Requirements:</p> <ul style="list-style-type: none"> - Flow meter velocity range: (+/-) 5 m/s or higher - Water Level: capable of measuring levels from 0.15 m to 4 meters or higher - Power Requirements: 12-16 VDC - Communications ports: Compatible with the Data Logger port

	<ul style="list-style-type: none"> • <i>The Manufacturer should be ISO Certified</i> <p>Data Logger</p> <p>Specifications:</p> <ul style="list-style-type: none"> - Modbus capable for SCADA ready feature - With built in SMS modem in 2G,3G and GPRS - Communication Interfaces : Ethernet RJ-45 Base and RS-232 - Sensor Interfaces : SDI-12 V 1. and RS485 (SDI-12/Modbus RTU) - Measuring Channels: 40 to 100 - IP Communication: HTTP, HTTPS, FTP, SMTP, Socket, GSM/GPRS/3G, - Capability of integrating a Satellite Internet Service Provider (ISP) - 5G and LTE compatible - - with TLS-Transport Layer Security as part of system's cyber security - Ethernet, PPP over landline and integrated webserver - SNTP (Simple Network Time Protocol) compatible - LED status display feature - capable of at least (6) remote sensors - Data Memory capacity up to 1,100,000 values - Operating Temperature: 40 to +70 °C - Including Lightning/surge protection components <ul style="list-style-type: none"> • <i>The Manufacturer should be ISO Certified</i> <p>Power Requirements</p> <p>Equipped with a solar power supply capable of off-grid application that can supply power requirements 24/7</p> <ul style="list-style-type: none"> - 30W, 24V solar panel - Max. Current of 60A 	<ul style="list-style-type: none"> - • <i>The Manufacturer should be ISO Certified</i> <p>Data Logger</p> <p>Specifications:</p> <ul style="list-style-type: none"> - Modbus capable for SCADA ready feature - With built-in or modular SMS modem in 2G,3G and GPRS - Communication Interfaces : Ethernet RJ-45 Base and RS-232 - Sensor Interfaces : SDI-12 V 1. and RS485 (SDI-12/Modbus RTU) - IP Communication: HTTP, HTTPS, FTP, SMTP, Socket, GSM/GPRS/3G, - Capability of integrating a Satellite Internet Service Provider (ISP) - 5G and LTE compatible - - with TLS-Transport Layer Security as part of system's cyber security - Ethernet, PPP over landline and integrated webserver - SNTP (Simple Network Time Protocol) compatible - LED status display feature - capable of at least (6) remote sensors - Data Memory capacity up to 1,100,000 values - Operating Temperature: 40 to +70 °C - Including Lightning/surge protection components - Includes 3-Year SMS Plan <ul style="list-style-type: none"> • <i>The Manufacturer should be ISO Certified</i> <p>Power Requirements</p> <p>Equipped with a solar power supply capable of off-grid application that can supply power requirements 24/7</p> <ul style="list-style-type: none"> - 30W, 24V solar panel - Max. Current of 60A
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	<ul style="list-style-type: none"> - Solar Charge Controller with Battery Voltage of 12V/24V/36V/48V auto - USB Output: Dual 5V - Charging current: 60A - 12V/24V, 42Ah Solar Battery Pack (Lithium Battery) <p>Application Tool Software</p> <p>Specific for SCADA application</p> <ul style="list-style-type: none"> - With asset management capability and data points customization - With alarm notification and GPS Tracking - Can be web interface to any PC/Mobile - Tabulated and Chart view display process values. 	<ul style="list-style-type: none"> - Solar Charge Controller with Battery Voltage of 12V/24V/36V/48V auto - USB Output: Dual 5V - 12V/24V, 42Ah Solar Battery Pack (Lithium Battery) <p>Application Tool Software</p> <ul style="list-style-type: none"> - Includes SCADA application - With asset management capability and data points customization - With alarm notification and GPS Tracking - Web interface to any PC/Mobile - Tabulated and Chart view display process values. <p>LOCAL SERVER (Base Station)</p> <ul style="list-style-type: none"> - The local server must handle two or more different data transmissions from the datalogger such as SMS, internet through Network Protocols that are present within the datalogger (HTTP/HTTPS, SFTP, FTPS, etc.), and/or even VHF. - The program in the local server must have a close but adaptable connection for the specified data transmission. - Both data from SMS and internet transmissions will be stored in a local database and accessible on the local website. - The local website will only be accessible by an administrator account. - The old system must be integrated into this new system. <p><i>FEATURES:</i></p> <ul style="list-style-type: none"> • Dashboard
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		<ul style="list-style-type: none"> - Overview of the gathered data from the included station. - The data shall be presented using custom charts and tables. - Interactive charts and tables. <ul style="list-style-type: none"> • Sidebar Navigation <ul style="list-style-type: none"> - There shall be a sidebar navigation for the individual content data such as tables for individual stations or tables for specific data or content. <ul style="list-style-type: none"> • Data Tables <ul style="list-style-type: none"> - The data tables shall include filtering and sorting features for efficient display. - The data table shall be capable of being published or exported. <ul style="list-style-type: none"> • History <ul style="list-style-type: none"> - The previously gathered data shall be stored in the local database and still be available for viewing and exporting on the latter. - It will be presented using tables. <p><i>WEBSITE FEATURES:</i></p> <ul style="list-style-type: none"> • Account and Role Management <ul style="list-style-type: none"> - There shall two types of account role: administrator and user accounts - The administrator account shall have a full control to the system such as account management or role management (add or remove users, assign roles), content management (publish or export data), and a monitoring system to see what type and how many devices are accessing the website. - Users can only view the data from the tables and charts but are not authorized to export or publish the data.
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	<p>SMS Base Modem Modem Sim</p>	<ul style="list-style-type: none"> • Authentication System <ul style="list-style-type: none"> - During login, the system should identify what type of role the logged-in account has and redirect it to the intended page. - All accounts shall have a session when logged in. • Dashboard <ul style="list-style-type: none"> - Overview of the gathered data from the included station - The data shall be presented using custom charts and tables. - Interactive charts and tables • Sidebar Navigation <ul style="list-style-type: none"> - There shall be a sidebar navigation for the individual content data such as tables for individual station or tables for specific data or content. • Data Tables <ul style="list-style-type: none"> - The data tables shall include filtering and sorting features for efficient display. - The data table shall be capable of being published or exported. • History <ul style="list-style-type: none"> - The previously gathered data shall be stored in the database and still be available for viewing and exporting. - It will be presented using tables. <p>SMS Base Modem</p> <ul style="list-style-type: none"> - Modem Sim - Includes 3-Year SMS Plan <p><i>Specifications:</i></p> <ul style="list-style-type: none"> - Can run on battery or solar power - Industrial modem - At least 4 channels GSM <p>Modem</p> <ul style="list-style-type: none"> - 4G Cat-6/LTE/3G - 1x Ethernet (1 Gbps) - Single Serial - GNSS
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	<p>Programming Laptop and Desktop for Workstation</p> <p>Laptop Specifications:</p> <ul style="list-style-type: none"> - Processor: i3900HX processor (36 MB Smart Cache, 2.2 GHz Performance-core - with Turbo Boost Max Technology 3.0 up to 5.4 GHz, overclock capable). - Memory: 1x 16GB of DDR5 5600Mhz system memory, upgradable to 32 GB - Storage: 1TB SSD/PCIe Gen4, 16 Gb/s, NVMe - Display: 16inch Display with IPS (In-Plane Switching) technology, supporting 240 Hz, 16:10 aspect ratio, 100% Wide - Ultra-slim design Mercury free - Graphics: RTX 4070 with 8GB of dedicated GDDR6 VRAM - Operating System: Windows 11 Home - Built-in Numpad - Wi-Fi + Bluetooth 5.2 - With Laptop backpack, Charger and Mouse. <p>Desktop Specifications:</p> <ul style="list-style-type: none"> - All-in One Desktop - Processor: Core i7-1360P processor (P-core up to 5.0 GHz, E-core up to 3.7 GHz, - 18 MB Intel Smart Cache, 4 P core/8 E-core/16-thread, 28W) - OS: Windows 11 Home - Memory: 16GB soDIMM DDR4 Up to 32 GB - Storage: 512 GB M.2 2280 PCI-e Gen4 SSD - Graphics: NVIDIA GeForce MX550 with 2 GB of GDDR6 	<ul style="list-style-type: none"> - IP64 Rated - LAN (ETHERNET/USB) - POWER: Input voltage-7 to 36 VDC - Compatible with latest computer Windows <p>Programming Laptop and Desktop for Workstation</p> <p>Laptop Specifications:</p> <ul style="list-style-type: none"> - Processor: 36 MB Smart Cache, 2.2 GHz Performance-core with Turbo Boost Max Technology 3.0 up to 5.4 GHz, overclock capable. - Memory: 1x 16GB of DDR5 5600Mhz system memory, upgradable to 32 GB - Storage: 1TB SSD/PCIe Gen4, 16 Gb/s, NVMe - Display: 16inch Display with IPS (In-Plane Switching) technology, supporting 240 Hz, 16:10 aspect ratio, 100% Wide - Ultra-slim design Mercury free - Graphics: RTX 4070 with 8GB of dedicated GDDR6 VRAM - Operating System: Windows 11 Home - Built-in Numpad - Wi-Fi + Bluetooth 5.2 - With Laptop backpack, Charger and Mouse. <p>Desktop Specifications:</p> <ul style="list-style-type: none"> - All-in One Desktop - Processor: P-core up to 5.0 GHz, E-core up to 3.7 GHz, - 18 MB Intel Smart Cache, 4 P core/8 E-core/16-thread, 28W) - OS: Windows 11 Home - Memory: 16GB soDIMM DDR4 Up to 32 GB - Storage: 512 GB M.2 2280 PCI-e Gen4 SSD - Graphics: NVIDIA GeForce MX550 with 2 GB of GDDR6 - Screen Size: Full HD 1920 x 1080 at 68.6 cm (27")
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	<ul style="list-style-type: none"> - Screen Size: Full HD 1920 x 1080 at 68.6 cm (27") - Webcam: Built-in Integrated 5.0 MP Full HD high-sense webcam - Wireless Mouse and Keyboard with Universal Power Adaptor - Equivalent or better <p>Configuration and Viewing Devices Specifications: Branded Original Android Smart Tablet 12.4" Dynamic AMOLED 2X 120Hz Display</p> <ul style="list-style-type: none"> - IP68 Protection Rating - Snapdragon 8 Gen 2 - 256GB Storage (Micro SD supported) - 12Gb Memory - 10,090 mAh Battery Capacity - IP68 S Pen - 13MP + 8MP Ultra Wide Rear Camera / 2MP Ultra Wide - Front Camera 5G / Wi-Fi Network - Equivalent or better <p>Branded Original Book cover Keyboard (for Tablet)</p> <ul style="list-style-type: none"> - Magnetically attachable - 150° Adjustable Angle - POGO Interface - 80 Keys Quantity - Touch Pad - <p>Engineering Services</p> <ul style="list-style-type: none"> - Supply, Delivery, Installation and Configuration - Service Level Agreement for 3 Years (includes every 6 months maintenance) - With FAT (Factory Acceptance Test) for 5 days (for 3 End-users) - Trainings (Operation and Maintenance), including actual on-site Training <p>- Two trainings shall be provided, details are as follows:</p>	<ul style="list-style-type: none"> - Webcam: Built-in Integrated 5.0 MP Full HD high-sense webcam - Wireless Mouse and Keyboard with Universal Power Adaptor - Equivalent or better <p>Configuration and Viewing Devices Specifications: Branded Original Android Smart Tablet 12.4"</p> <ul style="list-style-type: none"> - Dynamic AMOLED 2X 120Hz Display - IP68 Protection Rating - Processor: 3.36 GHz 2.8 Ghz, 2 GHz Octa-core processor - 256GB Storage (Micro SD supported) - 12Gb Memory - 10,090 mAh Battery Capacity - IP68 S Pen - 13MP + 8MP Ultra Wide Rear Camera / 2MP Ultra Wide - Front Camera 5G / Wi-Fi Network - Equivalent or better <p>Branded Original Book cover Keyboard (for Tablet)</p> <ul style="list-style-type: none"> - Magnetically attachable - 150° Adjustable Angle - POGO Interface - 80 Keys Quantity - Touch Pad <p>Engineering Services</p> <ul style="list-style-type: none"> - Supply, Delivery, Installation and Configuration - Maintenance for 3 Years (every 6 months) - With FAT (Factory Acceptance Test) - Trainings (Operation and Maintenance), including actual on-site Training <p>Two trainings shall be provided, details are as follows:</p>
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	<ul style="list-style-type: none"> - System Operational and Maintenance Training — At least ten (10) personnel should be trained to operate and maintain the system. - Representation expenses shall be provided during the program. This will be borne by the winning bidder. - Course Materials and a Certificate of Participation must also be provided. 	<ul style="list-style-type: none"> - System Operational and Maintenance Training - At least thirty (30) personnel should be trained to operate and maintain the system. - Representation expenses shall be provided during the program. This will be borne by the winning bidder. - Course Materials and a Certificate of Participation must also be provided.
	<p>Warranty</p> <ul style="list-style-type: none"> - All active materials and equipment shall be warranted by the supplier for a period of one (1) year commencing from the date of acceptance. - Warranty shall include but is not limited to the following: <ul style="list-style-type: none"> a. Warranty period of every equipment b. Contact Details of all the Technical Personnel 	<p>Warranty</p> <ul style="list-style-type: none"> - All active materials and equipment shall be warranted by the supplier for a period of eighteen (18) months commencing from the date of acceptance. - Warranty shall include but is not limited to the following: <ul style="list-style-type: none"> a. Warranty period of every equipment b. Contact Details of all the Technical Personnel

All unamended portions of the posted Invitation to Bid shall remain the same.

For guidance and information of all concerned.

(sgd)
ROLDAN D. BERMUDEZ
Chairman, BAC
Acting Manager, EOD