



July 21, 2020

Bid Bulletin No. 1

Subject: Supply, Delivery and Installation of Three (3) Units Automatic Weather Station under PB 20-03-17

This bid bulletin is being issued to reflect the changes/clarifications in the Schedule of Requirements and Technical Specifications for PB 20-03-17 Supply, Delivery and Installation of Three (3) Units Automatic Weather Station as follows:

REVISED SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS:

Attached is the Revised Schedule of Requirements and Technical Specifications for the complete details.

Please be guided accordingly.

GENARO S. RILLON
BAC Chairperson

Section VI. Revised Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item	Description	Qty	Unit	ABC (in PhP)	Division	Delivery Period
1.	Automatic Weather Station With Display Console and Data logger With Installation on site, with civil works if needed Basic Training on Maintenance for two (2) staff Warranty: Three (3) years	1	Unit	250,000.00	RFMM	Within 60 days upon receipt of PO/NTP
2.	Automatic Weather Station with complete set of weather parameter sensors	1	Unit	1,000,000.00	RFMM	Within 60 days upon receipt of PO/NTP
3.	Automatic Weather Station With Display Console and Data logger With Installation on site, with civil works if needed Basic Training on Maintenance for two (2) staff Warranty: Three (3) years	1	Unit	240,000.00	RFMM	Within 60 days upon receipt of PO/NTP
	TOTAL ABC			1,490,000.00		

Section VII. Revised Technical Specifications

Item	Specification	Statement of Compliance
1.	<p>Automatic Weather Station</p> <p>Indoor and Outdoor Temperature Sensor Range: -40 to 65°C Resolution: 0.1°C Accuracy: 0.3°C or better Calibration certificate</p> <p>Indoor and Outdoor Relative humidity: Range: 0 to 100% Resolution: 1% or better Accuracy: 2% or better Calibration certificate</p> <p>*** Temperature and Relative Humidity sensors are placed inside an 12h aspirated solar radiation Shield</p> <p>Barometer, Atmospheric Pressure Range: 540 to 1100hPa Resolution: 0.1hPa Accuracy: 1.0hPa or better Calibration certificate</p> <p>Wind Speed, Anemometer</p>	<p>Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a)(ii) and/or GCC Clause 2.1(a)(ii).</p>

	<p>Range: 0 to 80m/s or higher Resolution: 0.4m/s or better Accuracy: 0.9m/s or better Calibration certificate</p> <p>Wind Direction Range: 0 to 360° Resolution: 1° or better Accuracy:3° or better Calibration certificate</p> <p>Spare Anemometer and Wind Direction Set</p> <p>Tipping Bucket Rain Gauge Resolution:0.2mm or better Accuracy:4% or better at 100mm/h With bird spikes Calibration certificate</p> <p>Solar Radiation (UV Radiation is optional) Range:0 to 1800W/m2 Wavelength:400 to 1100W/m2 or higher Resolution:1W/m2 or better Accuracy: 5% of Full Scale or better Calibration certificate</p> <p>With Display Console and Data logger</p> <p>PC Software for weather monitoring</p> <p>Wireless data transmission by hopping frequency spread spectrum up to 300m Live data stream to internet cloud software</p> <p>Outdoor Dedicated WiFi Access Point with GSM modem with Prepaid Globe SIM</p> <p>Transmitter and battery housed in a weather resistant shelter</p> <p>Power supply: 12VDC 40 Ah Deep cycle solar battery, 200W Monocrystalline Solar Panel, Placed inside a vented enclosure</p> <p>Stainless Steel Mast, Tripod, Cross arms (optional) and Mounting Accessories, Lightning Arrester</p> <p>Installation on site, with civil works if needed</p>	
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	<p>Basic Training on Maintenance for Two (2) staff Warranty Three Years</p>	
2.	<p>Automatic Weather Station with complete set of weather parameter sensors:</p> <p>Sensors:</p> <p>a. Temperature Measuring Range: -40° to +70°C Resolution: 0.01°C Accuracy: ±0.2°C (at 23°C) or better With Calibration Certificate</p> <p>b. Relative Humidity Measuring Range: 0 to 100% Resolution: 0.03% Accuracy: ±2% (10 to 90% range); ±4% (0 to 100% range) or better With Calibration Certificate</p> <p>Note: Temperature and RH may be integrated into one sensor unit and must be placed inside a multi-plate UV-resistant solar radiation shield.</p> <p>c. Barometric Pressure Measuring Range: 600 to 1100 hPa Resolution: ±0.01 hPa Accuracy: ±1.5 hPa (at -20° to +50°C); ±1.0 hPa (at 0° to 40°C); ±0.5 hPa (at +20°); ±2.0 hPa (at -40° to 60°C) With Calibration Certificate</p> <p>d. Solar Radiation Measuring Range: 0 to 2000 W/m², Resolution: 1 W/m² Wavelength Range: 360 to 2800 nm or wider Second class Accuracy: ±5% for daily total radiation With Calibration Certificate</p> <p>e. Wind Speed Measuring Range: 0 to 100 m/s Resolution: 0.1 m/s; Accuracy: ±0.3 m/s; ±0.6 mph With Calibration Certificate</p> <p>f. Wind Direction Measuring Range: 0° to 360° Resolution: 1° Accuracy: ±3°</p> <p>g. Tipping Bucket Rain Gauge</p>	

	<p>Measuring Range: 0.254 mm/tip; 0.01 in/tip Resolution: 1 tip Accuracy: 1.0% up to 2 in/hr, 50 mm/hr With Calibration Certificate</p> <p>Data Logger and Transmission</p> <ul style="list-style-type: none"> - Real-time display - Local storage capacity - Data transmission through WiFi connectivity <p>Power Supply</p> <ul style="list-style-type: none"> - 100W solar panel, mono-crystalline - Complete with solar charge controller - 220 Vac full sine wave inverter, at least 1000W <p>Battery</p> <ul style="list-style-type: none"> - Deep cycle, Lead acid, 12 Vdc, 150 Ah <p>Mast with Lightning Arrester</p> <ul style="list-style-type: none"> - 10 m for wind sensor - Stainless steel mast - Copper lightning rod <p>Weatherproof enclosure Complete with on-site installation, and civil works, if needed Cross arm (optional)</p>	
3.	<p>Automatic Weather Station</p> <p>Indoor and Outdoor Temperature Sensor Range: -40 to 65°C Resolution: 0.1°C Accuracy: 0.3°C or better Calibration certificate</p> <p>Indoor and Outdoor Relative humidity: Range: 0 to 100% Resolution: 1% or better Accuracy: 2% or better Calibration certificate</p> <p>*** Temperature and Relative Humidity sensors are placed inside an 12h aspirated solar radiation Shield</p> <p>Barometer, Atmospheric Pressure Range: 540 to 1100hPa Resolution: 0.1hPa Accuracy: 1.0hPa or better</p>	

	<p>Calibration certificate</p> <p>Wind Speed, Anemometer Range: 0 to 80m/s or higher Resolution: 0.4m/s or better Accuracy: 0.9m/s or better Calibration certificate</p> <p>Wind Direction Range: 0 to 360° Resolution: 1° or better Accuracy:3° or better Calibration certificate</p> <p>Spare Anemometer and Wind Direction Set</p> <p>Tipping Bucket Rain Gauge Resolution:0.2mm or better Accuracy:4% or better at 100mm/h With bird spikes Calibration certificate</p> <p>Solar Radiation (UV Radiation is optional) Range:0 to 1800W/m2 Wavelength:400 to 1100W/m2 or higher Resolution:1W/m2 or better Accuracy: 5% of Full Scale or better Calibration certificate</p> <p>With Display Console and Data logger</p> <p>PC Software for weather monitoring</p> <p>Wireless data transmission by hopping frequency spread spectrum up to 300m Live data stream to internet cloud software</p> <p>Outdoor Dedicated WiFi Access Point with GSM modem with Prepaid Globe SIM</p> <p>Transmitter and battery housed in a weather resistant shelter</p> <p>Power supply: 12VDC 40 Ah Deep cycle solar battery, 200W Monocrystalline Solar Panel, Placed inside a vented enclosure</p> <p>Stainless Steel Mast, Tripod, Cross arms (optional) and Mounting Accessories, Lightning Arrester</p>	
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	Installation on site, with civil works if needed Basic Training on Maintenance for Two (2) staff Warranty Three Years	
	For item numbers 1 to 3: Preferably PAGASA Certification of Calibration or Manufacturer's Calibration or Accredited Calibrating Company	