



Republic of the Philippines
City Government of Muntinlupa
National Road Putatan Muntinlupa City
BIDS and AWARDS COMMITTEE
www.muntinlupacity.gov.ph

REQUEST FOR QUOTATION

Date: 8/08/2023
Quotation No: 2023-0400

Company Name: _____

Address: _____

Business Permit No.: _____

TIN: _____

PhilGEPS Registration No. (required): _____

The City Government of Muntinlupa, through its Bids and Awards Committee, intends to procure "Purchase and Delivery of Supplies for the Calibration and Maintenance of Local Weather Monitoring Stations at Sucat and Tunasan", which will be undertaken in accordance with Section 53.9 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184.

Please quote your **best offer** for the item/s described herein, subject to the Terms and Conditions provided.

A copy of the following documents are also required to be submitted along with your quotation/proposal:

1. Mayor's/Business Permit: (Certified True Copy)	4. PhilGEPS Registration (Certified True Copy)
2. Latest Income Tax (Certified True Copy)	5. Certificate of Registration (Certified True Copy)
3. Omnibus Sworn Statement (Original)	

Quotations/Proposals must be submitted to the BAC Office of the City Government of Muntinlupa for checking & validation.

For any clarification, you may contact **Bids & Awards Committee** at telephone no. (02) 8861-1127

INSTRUCTIONS:
(2) Do not alter the contents of this in any way.
(3) technical specifications with asterisks(*) are mandatory. Failure to comply with any of the mandatory requirements will disqualify your
(4) Failure to follow these instructions will disqualify your entire quotation.

After having carefully read and accepted the Terms and Conditions, I/we submit our quotation/s for the item/s as follows:

Procurement Project			Approved Budget for the Contract (ABC)		
Purchase and Delivery of Supplies for the Calibration and Maintenance of Local Weather Monitoring Stations at Sucat and Tunasan			EIGHT HUNDRED THOUSAND PESOS ONLY		
Technical Specifications:					
QTY	UNIT OF ISSUE	ITEM DESCRIPRION	Compliance		REMARKS
			Yes	No	
		Outputs:			
		8 digital open drain			
		(500mA maximum per output)			
		4 digital open collector			
		(100mA maximum per output)			
		2 analogue 0 ÷ 2V, 12 bit			
		(25mA maximum per output)			



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		Power supply and consumption			
		Battery power supply voltage: 10.5 - 13.8V (VBT)			
		Typical power consumption <10mA (suspend / resume) <20mA (full duty cycle)			
		Integrating charging regulator:			
		Photovoltaic Panel P _{MAX} 100W			
		IMAX 5A / 15.2 V MPP			
		Battery Charger integrated circuit			
		Internal, three phases, battery charger with solar panel Maximum Power Point at 15.2V			
		Battery Charger integrated circuit			
		N° 18 VALM, VBT @ 0.2A max			
		N° 1 VPWR, VBT @ 2.5A max			
		N°1 VSWT, VBT @ 2.5A max, (ON/OFF)			
		Communication Protocols			
		Serial			
		MODBUS			
		SDI-12			
		Store & Forward			
		Ethernet			
		MODBUS			
		ETP			
		HTTP			
		Other Features			
		Control Functions			
		Battery status monitor			
		Process watchdog (30 seconds of power off)			
		Charge current measurement			
		Power supply current measurement			
		PCB temperature measurement			
		Protection			
		EMC filter protection on power supplies, inputs, outputs and communication interfaces			
		Digital input protection 5kVRMS, optoisolated			
		Environmental operating conditions			
		- 40 ÷ + 80°C Maximum humidity 99% without condensation			
		Other characteristics			



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		Internal clock with automatic leap years management, Watchdog			
		Includes			
		1 x Integrated UMTS/LTE & GPS, model: SM910			
1	unit	Ultrasonic Water Level Transducer			
		Model: TLU08-IVS with specifications of:			
		Measurement performance			
		Measurement range (TLU08): 0.6 ÷ 8m			
		Accuracy: ±1 cm			
		Resolution: 0.5 cm			
		Beam width (3dB) 12° ± 2°			
		Operating conditions			
		Temperature: -20°C ± +65°C			
		Humidity: 0% ÷ 100%			
		Outputs			
		RS485-Modbus: Temperature, Water Level Tension: 0 ÷ 2V+> 0 = 10m			
		Current: 4 ÷ 20mA < 0 ÷ 10m			
		Power supply and consumption			
		Voltage supply: 10 ÷ 16 Vdc			
		Power Consumption (mA): Min Typical Max			
		RS485-Modbus/ 0÷2 V (TLU08) - 1 - 4 ÷ 20mA: 7 - 30			
		Capsule piloting power (peak): 14.4(W)			
		Mechanical specifications			
		Protective body: Plastic material (ABS), aluminum and stainless steel screws			
		Weight: 1.6kg			
		Dimensions: a = 210mm; height = 323mm			
		Electrical connections: IP67 / 7 pole male connector			
1	unit	Relative Humidity & Temperature Sensor			
		Model: TTEPRH-N			
		Specifications:			
		Measurement performance			



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		Transducer: P100 1/3 DIN 43760			
		Measurement range: -30 ÷ +60			
		Accuracy (natural output): 1/3 DIN 43760			
		Accuracy (serial output, tension output, current output) 1/3 DIN 43760 ÷ 0.1			
		Resolution: 0.03			
		Relative Humidity (%)			
		Transducer: Capacitive			
		Measurement range: 0 ÷ 100			
		Accuracy (Temperatures -20 ÷ 60°C) ± 2			
		Resolution: 0.01			
		Repeatability: 0.15			
		Long-term stability (maximum variability of the measured value) <0.25 a year			
		Operating Conditions			
		Temperature: -30°C + +60°C			
		Humidity: 0% ÷ 100%			
		Outputs			
		Natural Pt100 4-wires			
		0 ÷ 1 V ↔ 0% ÷ 100%			
		RS485-Modbus: Temperature, relative humidity, dew and frost points			
		SDI-12: Temperature, relative humidity, dew and frost points			
		Tension: 0 ÷ 2 V ↔ -30 ÷ 60°C			
		0 ÷ 1 V ↔ 0% ÷ 100%			
		Current: 4 ÷ 20mA ↔ -30 ÷ 60°C			
		4 ÷ 20mA ↔ 0% ÷ 100%			
		Power supply and consumption			
		Voltage supply: 7 ÷ 30Vdc			



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		Power Consumption (mA) Min			
		Typical - 1			
		Max - 3			
		Natural / RS485-Modbus			
		SDI-12 / 0 ÷ 2V			
		4 ÷ 20mA			
		Min - 5			
		Max 25			
		Mechanical Specifications			
		Protective body			
		Plastic material (ASA) and stainless steel screws			
		Weight: 1.4kg Ø +175mm, height = 310mm			
		Electrical connections: IP67 / 7 pole male connector			
1	unit	Rehabilitation, Repair and Relocation of Tunasan Station Scope of Works			
		1) Relocation of Water Level Sensor			
		2) Calibration of Sensors			
		3) Configuration and Adjusting the Baseline of Web			
		Display			
		4) Replacement of Battery & RH/TEMP Sensors			
		5) Data Logger Upgrade			
1	unit	Technical Service of Sucat Station			
		Enclosure Box for Datalogger			
		Specifications			



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		Fibox ARCA Series Polycarbonate Wall Box				
		IP66, 500mm x 400mm x 210mm				
		Dimensions: L 400 x W 500 x H 210 mm				
		Materials: Polycarbonate				
		Base colour: RAL 7035				
		Cover colour: RAL 7035				
		Gasket material: PUR				
		Temperatures: Short term -40... 120°C				
		Continuous -40... 80°C				
1	unit	Rehabilitation and Repair of Sucat Station				
		Scope of Works				
		1) Repainting and Repair of the Station				
		2) Calibration of Sensors				
		3) Configuration and Adjustment of Baseline of				
		Web Display				
		4) Reinforcement of Deep Cycle Battery, 12V, 50AH				
		5) Data Logger Upgrade				
		Warranty: One (1) year warranty on parts and services from the date of invoice				
QTY	UNIT OF USE	ITEM DESCRIPTION	QTY	UNIT OF ISSUE	REMARKS	TOTAL PRICE
		Outputs:				
		8 digital open drain				
		(500mA maximum per output)				
		4 digital open collector				
		(100mA maximum per output)				
		2 analogue 0 ÷ 2V, 12 bit				
		(25mA maximum per output)				
		Power supply and consumption				
		Battery power supply voltage: 10.5 - 13.8V (VBT)				



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		Typical power consumption <10mA (suspend / resume) <20mA (full duty cycle)				
		Integrating charging regulator:				
		Photovoltaic Panel PMAx 100W				
		IMAX 5A / 15.2 V MPP				
		Battery Charger integrated circuit				
		Internal, three phases, battery charger with solar panel Maximum Power Point at 15.2V				
		Battery Charger integrated circuit				
		N° 18 VALM, VBT @ 0.2A max				
		N° 1 VPWR, VBT @ 2.5A max				
		N°1 VSWT, VBT @ 2.5A max, (ON/OFF)				
		Communication Protocols				
		Serial				
		MODBUS				
		SDI-12				
		Store & Forward				
		Ethernet				
		MODBUS				
		ETP				
		HTTP				
		Other Features				
		Control Functions				
		Battery status monitor				
		Process watchdog (30 seconds of power off)				
		Charge current measurement				
		Power supply current measurement				



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		PCB temperature measurement				
		Protection				
		EMC filter protection on power supplies, inputs, outputs and communication interfaces				
		Digital input protection 5kVRMS, optoisolated				
		Environmental operating conditions				
		- 40 ÷ + 80°C Maximum humidity 99% without condensation				
		Other characteristics				
		Internal clock with automatic leap years management, Watchdog				
		Includes				
		1 x Integrated UMTS/LTE & GPS, model: SM910				
1	unit	Ultrasonic Water Level Transducer				
		Model: TLU08-IVS with specifications of:				
		Measurement performance				
		Measurement range (TLU08): 0.6 ÷ 8m				
		Accuracy: ±1 cm				
		Resolution: 0.5 cm				
		Beam width (3dB) 12° ± 2°				
		Operating conditions				
		Temperature: -20°C ± +65°C				
		Humidity: 0% ÷ 100%				
		Outputs				



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		RS485-Modbus: Temperature, Water Level Tension: $0 \div 2V \rightarrow 0 = 10m$				
		Current: $4 \div 20mA < 0 \div 10m$				
		Power supply and consumption				
		Voltage supply: $10 \div 16 Vdc$				
		Power Consumption (mA): Min Typical Max				
		RS485-Modbus/ $0 \div 2 V$ (TLU08) - 1 - 4 \div 20mA: 7 - 30				
		Capsule piloting power (peak): 14.4(W)				
		Mechanical specifications				
		Protective body: Plastic material (ABS), aluminum and stainless steel screws				
		Weight: 1.6kg				
		Dimensions: a = 210mm; height = 323mm				
		Electrical connections: IP67 / 7 pole male connector				
1	unit	Relative Humidity & Temperature Sensor				
		Model: TTEPRH-N				
		Specifications:				
		Measurement performance				
		Transducer: P100 1/3 DIN 43760				
		Measurement range: $-30 \div +60$				
		Accuracy (natural output): 1/3 DIN 43760				
		Accuracy (serial output, tension output, current output) 1/3 DIN 43760 $\div 0.1$				
		Resolution: 0.03				
		Relative Humidity (%)				
		Transducer: Capacitive				
		Measurement range: $0 \div 100$				



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		Accuracy (Temperatures $-20 \div 60^{\circ}\text{C}$) ± 2				
		Resolution: 0.01				
		Repeatability: 0.15				
		Long-term stability (maximum variability of the measured value) <0.25 a year				
		Operating Conditions				
		Temperature: $-30^{\circ}\text{C} + 60^{\circ}\text{C}$				
		Humidity: $0\% \div 100\%$				
		Outputs				
		Natural Pt100 4-wires				
		$0 \div 1 \text{ V} \leftrightarrow 0\% \div 100\%$				
		RS485-Modbus: Temperature, relative humidity, dew and frost points				
		SDI-12: Temperature, relative humidity, dew and frost points				
		Tension: $0 \div 2 \text{ V} \leftrightarrow -30 \div 60^{\circ}\text{C}$				
		$0 \div 1 \text{ V} \leftrightarrow 0\% \div 100\%$				
		Current: $4 \div 20\text{mA} \leftrightarrow -30 \div 60^{\circ}\text{C}$				
		$4 \div 20\text{mA} \leftrightarrow 0\% \div 100\%$				
		Power supply and consumption				
		Voltage supply: $7 \div 30\text{Vdc}$				
		Power Consumption (mA) Min				
		Typical - 1				
		Max - 3				
		Natural / RS485-Modbus				
		SDI-12 / $0 \div 2\text{V}$				
		$4 \div 20\text{mA}$				
		Min - 5				
		Max 25				
		Mechanical Specifications				
		Protective body				
		Plastic material (ASA) and stainless steel screws				
		Weight: 1.4kg \varnothing 175mm, height = 310mm				



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		Electrical connections: IP67 / 7 pole male connector				
1	unit	Rehabilitation, Repair and Relocation of Tunasan Station Scope of Works				
		1) Relocation of Water Level Sensor				
		2) Calibration of Sensors				
		3) Configuration and Adjusting the Baseline of Web				
		Display				
		4) Replacement of Battery & RH/TEMP Sensors				
		5) Data Logger Upgrade				
1	unit	Technical Service of Sucat Station				
		Enclosure Box for Datalogger				
		Specifications				
		Fibox ARCA Series Polycarbonate Wall Box				
		IP66, 500mm x 400mm x 210mm				
		Dimensions: L 400 x W 500 x H 210 mm				
		Materials: Polycarbonate				
		Base colour: RAL 7035				
		Cover colour: RAL 7035				
		Gasket material: PUR				
		Temperatures: Short term -40... 120°C				
		Continuous -40... 80°C				
1	unit	Rehabilitation and Repair of Sucat Station				
		Scope of Works				
		1) Repainting and Repair of the Station				
		2) Calibration of Sensors				
		3) Configuration and Adjustment of Baseline of				



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		Web Display				
		4) Reinforcement of Deep Cycle Battery, 12V, 50AH				
		5) Data Logger Upgrade				
		Warranty: One (1) year warranty on parts and services from the date of invoice				
			800,000.00	Total Offered quotation (in Php)	Php	

TERMS AND CONDITIONS:

1. Bidders shall provide correct and accurate information required in this form.
2. Bidders must quote for all or all the items.
3. Price quotation/s must be valid for a period of thirty (30) calendar days from the date of submission.
4. Price quotation/s, to be denominated in Philippine peso shall include all taxes, duties and/or levies payable.
5. Quotations exceeding the Approved Budget for the contract shall be rejected.
6. Award of contract shall be made to the lowest quotation (for goods and infrastructure) or, the highest rated offer (for consulting services) which complies with the minimum technical specifications and other terms and conditions stated herein.
7. Any interlineations, erasures overwriting shall be valid only if they are signed or initialed by you or any of your duly authorized representative/s.
8. The Item/s shall be delivered according to the requirements specified in the Technical Specifications.
9. The GSO/Engineering Office shall have the right to inspect and/or to test the goods to confirm their conformity to the technical specifications.

Signature over Printed Name

Position/Designation

Office Telephone No.

Mobile Phone No./Fax No.

Email address/es