



ASTI-FM 03-10
REV 3/13 January 2020

**DOST-ASTI Bids and Awards Committee
REQUEST FOR QUOTATION**

Kind of Procurement Activity:	Negotiated Procurement: Small-value Procurement		
Deadline of Submission of Bids:	Sep-21-2020, 2:00 PM		
RFQ No.:	20-09-3212	Date:	September-15-2020
PR No.:	GAA-20-08-10202	Date:	August-24-2020

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the item/s listed below. As such, suppliers, contractors, or distributors are invited to submit their quotation/s duly signed by authorized representative. Prospective bidder/s who will submit a proposal with the single/lowest calculated and responsive quotation shall be selected. Guidelines on the format and eligibility documents are listed at the box below the item/s to be procured.

Quotations may be sent via **a)** electronic mail at bac-sec@asti.dost.gov.ph, **b)** fax message, or **c)** delivering documents to the BAC Secretariat. For further inquiries, you may contact +63 2 249-8500 local 1206/1212 or +63 2 426-7423.

Thank you.

Respectfully,

PEDRITO B. MANGAHAS

Chairperson, BAC-1

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	2D 360 Degree Laser Range Finder - 25M - Distance Range: 25 meters - Sample Rate: 16000 times per second - Scan Rate: Typical value: 15 HZ (adjustable between 10 HZ-20 HZ) - Angular Resolution: 0.3375° - Communication Interface: TTL UART - Communication Speed: 256000bps - Compatible with ROS - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	pc	40000.00	40,000.00
2	2D 360 Degree Laser Range Finder - 18M - Distance Range: 18 meters - Sample Rate: 8000 times per second - Scan Rate: Typical value: 10 HZ (adjustable between 5 HZ-15 HZ) - Angular Resolution: 0.9° - Communication Interface: TTL UART - Communication Speed: 256000bps - Compatible with ROS - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	pc	30000.00	30,000.00

3	<p>Flight Controller - Advanced</p> <ul style="list-style-type: none"> - Genuine/Authentic Product - Flight Controller & M8N GPS Combo - Aluminum Case - Dimensions: 44x84x12mm - Weight: 15.8g - Main FMU Processor: STM32F765 (32 Bit Arm®Cortex®-M7, 216MHz, 2MB memory, 512KB RAM) - IO Processor: STM32F100 (32 Bit Arm® Cortex®-M3, 24MHz, 8KB SRAM) - Accel/Gyro: ICM-20689 - Accel/Gyro: BMI055 - Mag: IST8310 - Barometer: MS5611 - GPS: M8N GPS/GLONASS receiver; integrated magnetometer IST8310 - Power Module Output: 4.9~5.5V - Max Input Voltage: 6V - Max Current Sensing: 120A - USB Power Input: 4.75~5.25V - Servo Rail Input: 0~36V - Interfaces <ul style="list-style-type: none"> ●8-16 PWM servo outputs (8 from IO, 8 from FMU) ●3 dedicated PWM/Capture inputs on FMU ●Dedicated R/C input for CPPM ●Dedicated R/C input for Spektrum / DSM and S.Bus with analog / PWM RSSI input ●Dedicated S.Bus servo output ●5 general purpose serial ports <ul style="list-style-type: none"> - 2 with full flow control - 1 with separate 1.5A current limit ●3 I2C ports ●4 SPI buses <ul style="list-style-type: none"> - 1 internal high speed SPI sensor bus with 4 chip selects and 6 DRDYs - 1 internal low noise SPI bus dedicated for Barometer with 2 chip selects, no DRDYs ●1 internal SPI bus dedicated for FRAM <ul style="list-style-type: none"> ● Supports dedicated SPI calibration EEPROM located on sensor module ●1 external SPI buses ●Up to 2 CANBuses for dual CAN with serial ESC <ul style="list-style-type: none"> - Each CANBus has individual silent controls or ESC RX-MUX control ●Analog inputs for voltage / current of 2 batteries ●2 additional analog inputs - Operating temp. ~40~85C - Storage temp. -40~85C - A new and small form factor - More computing power and 2X the RAM than previous versions - New sensors with higher temperature stability - Integrated vibrations isolation - Increased ease-of-use: pre-installed with most recent PX4 (v1.7) - Additional ports for better integration and expansion - Package Included: <ul style="list-style-type: none"> + 1x Pixhawk 4 Flight Controller + 1x GPS Module + 1x Power Management Board 	2	pc	17500.00	35,000.00
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	<ul style="list-style-type: none"> + 1x I2C splitter Board + 3x 6 to 6 pin cable (power) + 2x 4 to 4 pin cable (CAN) + 1x 6 to 4 pin cable (Data) + 2x 10 to 10 pin cable (PWM) + 1x 8 to 8 pin cable(AUX) + 1x PPM/SBUS out cable + 1x XSR receiver cable + 1x DSMX receiver cable + 1x SBUS receiver cable + 1x USB cable *1 + 1x 'X'type folding pedestal mount + 2x 70mm & 140mm carbon rod stand off + 1x 6*3 2.54mm pitch Horizontal Pin + 1x 8*3 2.54mm pitch Horizontal Pin + 1x Foam Set <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>				
4	<p>Universal Power Adapter</p> <ul style="list-style-type: none"> - Input: AC100-240V 50/60Hz - Output: DC 9-24V adjustable - Output current: 3A - Power: 72W <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	4	pc	800.00	3,200.00
5	<p>USB Charger/Adapter</p> <ul style="list-style-type: none"> - Output: 5V, at least 2.5A per port - Ports: at least 3 USB ports <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	4	pc	1750.00	7,000.00
6	<p>RFID/NFC Module</p> <ul style="list-style-type: none"> - PN532-based chipset - Input voltage: 3.3V or 5V - Interface: I2C, SPI, and UART - Compatibility: Raspberry Pi, Arduino, and similar boards - Compatible with libnfc and Python libraries - Dimension: at most 79 × 48.3 × 11.3mm <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	3	pc	575.00	1,725.00
7	<p>Small Footprint RFID/NFC Module</p> <ul style="list-style-type: none"> - PN532-based chipset - Input voltage: 3.3V or 5V - Interface: I2C, SPI, and UART - Compatibility: Raspberry Pi, Arduino, and similar boards - Compatible with libnfc and Python libraries - Support RFID reading and writing, P2P communication with peers, NFC with Android phone - RFID reader/writer supports: 1. Mifare 1k, 4k, Ultralight, and DesFire cards; 2. ISO/IEC 14443-4 cards such as CD97BX, CD light, Desfire, P5CN072 (SMX); 3. Innovision Jewel cards such as IRT5001 	3	pc	450.00	1,350.00

	<p>card; 4. FeliCa cards such as RCS_860 and RCS_854</p> <ul style="list-style-type: none"> - Up to 5cm~7cm reading distance - On-board level shifter, Standard 5V TTL for I2C and UART, 3.3V TTL SPI - Package includes: 1 x PN532 NFC RFID Module 1 x 2.54mm spacing 4pin Cable 1 x Mifare One S50 White Card 1 x Mifare One S50 Key Card 1 x 12P bended male pins <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>				
8	<p>Touchscreen Display Module - 2.4"</p> <ul style="list-style-type: none"> - Compatible with Arduino Uno R3 - 2.4" diagonal LCD TFT display - 240x320 resolution, 18-bit (262,000) color - spfd5408 controller with built in video RAM buffer - 8 bit digital interface, plus 4 control lines - Uses digital pins 5-13 and analog 0-3 - Works with any '328 or Mega - 5V compatible! Use with 3.3V or 5V logic - Onboard 3.3V 300mA LDO regulator - 4 white LED backlight. On by default but you can connect the transistor to a digital pin for backlight control - 4-wire resistive touchscreen <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	2	pc	650.00	1,300.00
9	<p>Touchscreen Display Module - 3.5"</p> <ul style="list-style-type: none"> - Compatible with Arduino Mega - Screen Type: TFT - Screen Size: 3.5inch - Resolution: 320 x 480 - Working Voltage: 3.3~5V <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	2	pc	850.00	1,700.00
10	<p>ZigBee Explorer Board</p> <ul style="list-style-type: none"> - Compatible with Arduino - USB 2.0 compatible Serial Interface - 3.3V and 5V compatible I/Os - 3.3V and 5V dual power outputs - Reset button for XBEE modules - LEDs for UART and XBEE operations - Type B USB connector - Hardware Handshaking full supported - With USB cable <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	5	pc	340.00	1,700.00
11	<p>AC-DC Power Supply - 12V</p> <ul style="list-style-type: none"> - Output: DC 12V 5A - Input voltage: AC110/220V \pm 15% - Grid frequency 50/60Hz \pm 10%, - Peak-peak noise voltage \leq 200mV - Operating Frequency 100KHz - Efficiency $>$ 88% 	2	pc	360.00	720.00

	<ul style="list-style-type: none"> - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 				
12	<p>AC-DC Power Supply - 5V</p> <ul style="list-style-type: none"> - Output: DC 5V 4A - Input voltage: AC110/220V ± 15% - Grid frequency 50/60Hz ± 10%, - Peak-peak noise voltage ≤ 200mV - Operating Frequency 100KHz - Efficiency > 88% <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	2	pc	330.00	660.00
13	<p>Exhaust Fan</p> <ul style="list-style-type: none"> - Voltage: 220V 50Hz - Input power: 25W - Speed: 2800R / Min - Air volume: 140m³/H - Running noise: 30-35db - Diameter: 100 mm - Height: 80 mm - Colour: Black - Material: metal <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	2	pc	950.00	1,900.00
14	<p>Flexible Air Duct</p> <ul style="list-style-type: none"> - Diameter: 4" - Length: 3m - Double layer <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	2	pc	1200.00	2,400.00
15	<p>Enclosure Fan - 80mm</p> <ul style="list-style-type: none"> - Dimension: 80X80X25mm - Rated Voltage: 12VDC - Power Input: 2.4W - Operating Voltage: 10.8-13.2VDC - Fan Speed: 1300RPM <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	5	pc	200.00	1,000.00
16	<p>Dehumidifier</p> <ul style="list-style-type: none"> - Product power: 25W - Input voltage: 220~240v / 50hz~60hz - Output voltage: DC9V - Shell material: Plastic ABS - Daily dehumidification: Max 200-300ml/24 hours (30°C, - 80RH% Laboratory data) - Max Dehumidification area : 15[?]150 sq.ft[?] - Water tank capacity: 500ML - Product size: 165mm * 125mm * 225mm <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	pc	2500.00	2,500.00

17	Humidifier - Water volume: 500ml - Application range: 30-40 Square meters - Power: 16W - Input: AC100~240V,50/60Hz - Adapter:DC24V,650mA - Dimension: 168(D)mm x121(H)mm - Material: Polypropylene construction excellent chemical resistance - Auto power-off when the water runs out - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	pc	875.00	875.00
18	Pulse Oximeter Sensor Module - Chipset: MAX30100 - 5.6mm x 2.8mm x 1.2mm - 14-Pin - Ultra-Low-Power Operation - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	pc	320.00	320.00
19	Filament Dryer - Rated Power: AC100-240V~50/60Hz - Power Output: DC12V~3A - Power of Drying Heater: 36W - Inside Environment Temperature: Max. 50°C - Heater Sheet Temperature: Max. 80°C - Weighing Power: 0.1W - Weighing Load: ±2KG - Weighing Accuracy: 0.02G - Filament Diameter: 1.75mm/2.85mm/3mm - Max Capacity: Φ200×73(H) mm - Product Weight: 750g / 26.5oz - Product Size: 23.9 * 21.5 * 10.4cm / 9.4 * 8.5 * 4.1in - Package Weight: 1112g/39.2oz - Package Size: 27.2 * 24.9 * 13.8cm / 10.7 * 9.8 * 5.4in - Packing List: + 1 * Filament Box + 1 * Power Adapter + 1 * Tube + 1 * Bayonet + 1 * User Manual(English & Chinese) - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	2	pc	5350.00	10,700.00
20	Extruder Hot End Kit - Material: Aluminum, Brass, Stainless Steel - Nozzle size: About 0.4mm - Cable length: About 1.2m - Heating Tube: 24V 40W - Operating temperature range: -40-+260°C (-40-+500°F) - Throat length: About 52mm - Aluminum block size: About 20x20x10mm - Suitable: For Creality ender 3/3 Pro/5/5PRO - Package includes: + 1pc x Aluminum Block + 1pc x Heating Tube	1	pc	1575.00	1,575.00

	<ul style="list-style-type: none"> + 1pc x M6x30mm Throat Pipe + 1pc x Thermistor+Brass Sleeve + 1pc x 1.75mm 0.4mm Brass Nozzle <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>				
21	<p>Carbon Brush for Dremel 4000</p> <ul style="list-style-type: none"> - Replacement carbon brush - Compatible with Dremel 4000 - 1 pair per set <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	4	set	550.00	2,200.00
22	<p>Right Angle Attachment for Dremel 4000</p> <ul style="list-style-type: none"> - Compatible with Dremel 4000 - Quick connect system easily attaches to your rotary tool in place of the housing cap, no wrenches required - Compact, durable design for those "hard-to-reach" places <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	pc	1290.00	1,290.00
23	<p>Mini Saw Attachment for Dremel 4000</p> <ul style="list-style-type: none"> - Compatible with Dremel 4000 - Works great on wood and all wood-like materials. - Make clean, straight perpendicular cuts up to 1/4" thick - Quick connect system attaches to your rotary tool in seconds - Includes blade <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	pc	1600.00	1,600.00
24	<p>Workstation Attachment for Dremel 4000</p> <ul style="list-style-type: none"> - Compatible with Dremel 4000 - Functions as an articulating drill press that rotates 90°, rotary tool holder, and flex-shaft tool stand - Detents click the tool in place in 15° increments from vertical to horizontal - "Crow's Nest" provides on-board storage for Dremel accessories - Durable, die-cast aluminum base <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	pc	6500.00	6,500.00
25	<p>Cut Off Wheel for Dremel 4000 - Plastic</p> <ul style="list-style-type: none"> - Compatible with Dremel 4000 - For Clean Cuts in Plastic - 5 pcs per set - For use with EZ402 Mandrel - Last 2 times longer than current fiberglass-reinforced cut-off wheels - Labeled for easy identification <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	set	680.00	680.00

26	Cut Off Wheel for Dremel 4000 - Thin Metal - Compatible with Dremel 4000 - Thin and accurate cutting - 5 pcs per set - Make thin-kerf cuts without compromising strength - Reinforcement prevents breakage - Easy to assemble - Thickness: 0.6mm (0.25") - Diameter: 38.1mm (1-1/2") - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	set	680.00	680.00
27	EZ Lock Starter Kit for Dremel 4000 - Compatible with Dremel 4000 - Includes one EZ Lock Mandrel and 5 pcs Reinforced Cut Off Wheels - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	set	680.00	680.00
28	Mandrel 402 for Dremel 4000 - Compatible with Dremel 4000 - Used primarily with Dremel polishing bits and accessories - For use in all Dremel rotary tools - 1/8 In. shank - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	2	pc	220.00	440.00
29	Chuck for Dremel 4000 - Compatible with Dremel 4000 - This chuck allows you to quickly and easily change accessories on Dremel Rotary Tools without changing collets - Accepts accessories with 1/32" (0.8mm) to 1/8" (3.2mm) shanks - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	pc	800.00	800.00
30	Quick Change Collet Set for Dremel 4000 - Compatible with Dremel 4000 - Includes collet nut and 4 pcs collets - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	1	set	500.00	500.00
31	Cut Off Disc for Bosch Cordless Grinder - Metal - Compatible with Bosch Cordless Grinder GWS 18 - Genuine product - 4" - For cutting metal - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	2	pc	550.00	1,100.00
32	Cutting Disc for Bosch Cordless Grinder - Wood - Compatible with Bosch Cordless Grinder GWS 18 - Genuine product	3	pc	270.00	810.00

	<ul style="list-style-type: none"> - 4" - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 				
33	<p>Grinding Disc for Bosch Cordless Grinder</p> <ul style="list-style-type: none"> - Compatible with Bosch Cordless Grinder GWS 18 - Genuine product - 4" <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	4	pc	60.00	240.00
34	<p>Rubber Mallet</p> <ul style="list-style-type: none"> - 16oz <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	pc	250.00	250.00
35	<p>Ball Hammer</p> <ul style="list-style-type: none"> - 16oz <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	pc	500.00	500.00
36	<p>Universal Detachable Lens Set</p> <ul style="list-style-type: none"> - Material:Aluminum alloy shell - Fish Eye Lens <ul style="list-style-type: none"> + Magnification: Up to 180 degrees + Dimensions (main body): 25mm (diameter) x 14mm (length) - Wide Angle <ul style="list-style-type: none"> + Magnification: 0.67X Wide (Must use with Macro Lens) + Lens Construction: 2 elements in 2 groups + Dimensions(main body): 20mm (diameter) x 10mm (length) - CPL: <ul style="list-style-type: none"> + Dimensions(main body): 20mm (diameter) x 16mm (length) - Marco: <ul style="list-style-type: none"> + Dimensions(main body): 14mm (diameter) x 5mm (length) - 2.0X Telephoto: <ul style="list-style-type: none"> + Dimensions(main body): 20mm (diameter) x 12mm (length) - Package included: <ul style="list-style-type: none"> + 1x Fish Eye Lens + 1x 2in1 Phone Lens(Wide Angle + Macro Lens) + 1x CPL Lens + 1x 2.0X Telephoto + 4x Lens Cover (plastic) + 1x Pouch + 1x Clip <p>- Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP</p>	1	set	550.00	550.00
37	<p>Underwater Motor Kit</p> <ul style="list-style-type: none"> - Three-Phase Brushless Motor for underwater applications 	4	set	1450.00	5,800.00

	<ul style="list-style-type: none"> - Motor Material: 304 Stainless Steel Bearing + Aluminum Alloy - Housing: PLA Nylon Propeller - Orientation: Both (Positive Propeller / Anti-propeller Propeller) - Voltage: 12-24V - Current: at least 17A - Power: 100-300W - Motor: at least 1450KV - Dimesion: 75*62*62mm - Cable Length: 250mm <ul style="list-style-type: none"> - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 				
38	<p>Cooling Fan for Raspberry Pi</p> <ul style="list-style-type: none"> - Can used for Raspberry Pi 3B+ and Raspberry Pi 4B. In the case of overclocking - Adopt the tower structure, included 5mm copper tube, multi-layer heat sinks - DC 5V Power in (Can be powered by the Raspberry Pi), Rated power 0.4W 5V, 0.08A <ul style="list-style-type: none"> - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 	2	pc	1400.00	2,800.00
39	<p>Aluminum Heatsink Case with Dual Fan For Raspberry Pi 3</p> <ul style="list-style-type: none"> - Compatible with Raspberry Pi 3 Model B B+ - Made from CNC machining manufacturing technology - includes the dual fan and thermal tapes/paste - Low Power Consumption Design <ul style="list-style-type: none"> - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 	2	pc	850.00	1,700.00
40	<p>Aluminum Heatsink Case with Dual Fan For Raspberry Pi 4</p> <ul style="list-style-type: none"> - Material: Aluminum alloy - Color: Black - Compatible with: Raspberry Pi 4 Model B - Features:Passive cooling architecture design can reach perfect heat dissipation. - Ultra-thin design - Easy to install - Fast Heat dissipation - Silence Fan without noise - Smooth and straight aluminum material - All ports and slots of the case can match with Raspberry Pi 4 Model B perfectly <ul style="list-style-type: none"> - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 	2	pc	950.00	1,900.00
41	<p>2.54 Pitch Connector 1x1P Housing</p> <ul style="list-style-type: none"> - Jumper wire housing - size: 14.1mm x 2.5mm x 2.5mm - at least 50 pcs per pack <ul style="list-style-type: none"> - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 	4	pack	100.00	400.00

42	2.54 Pitch Connector 1x2P Housing - Jumper wire housing - size: 14.1mm x 2.5mm x 2.5mm - at least 50 pcs per pack - has two pin slots for 2.55 mm dupont head - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	3	pack	120.00	360.00
43	2.54 Pitch Connector 1x3P Housing - Jumper wire housing - size: 14.1mm x 2.5mm x 2.5mm - at least 50 pcs per pack - has three pin slots for 2.55 mm dupont head - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	2	pack	170.00	340.00
44	2.54 Pitch Connector 1x4P Housing - Jumper wire housing - size: 14.1mm x 2.5mm x 2.5mm - at least 50 pcs per pack - has 4 pin slots for 2.55 mm dupont head - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	2	pack	170.00	340.00
45	Temperature/Humidity Sensor Module * Individual humidity, pressure and gas sensors can be independently enabled/disabled * Package 3.0 mm x 3.0 mm x 0.93 mm metal lid LGA * Digital interface I ² C (up to 3.4 MHz) and SPI (3 and 4 wire, up to 10 MHz) * Supply voltage VDD main supply voltage range: 1.71 V to 3.6 V VDDIO interface voltage range: 1.2 V to 3.6 V * Current consumption 2.1 µA at 1 Hz humidity and temperature; 3.1 µA at 1 Hz pressure and temperature; 3.7 µA at 1 Hz humidity, pressure and temperature * 0.09–12 mA for p/h/T/gas depending on operation mode 0.15 µA in sleep mode * Operating range -40–+85 °C, 0–100% r.H., 300–1100 hPa - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	3	pc	2000.00	6,000.00
46	UV Index Sensor Module * UV spectrum sensitivity: 320-410nm (peak at 355nm) * Voltage Supply: 2.7-5.5V * Output type: I2C bus - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP	3	pc	530.00	1,590.00
47	GPS Module - SAM-M8Q chip - 72-Channel GNSS Receiver - 2.5m Horizontal Accuracy - 18Hz Max Update Rate	2	pc	2770.00	5,540.00

	<ul style="list-style-type: none"> - Time-To-First-Fix: - Cold: 26s - Hot: 1s - Max Altitude: 50,000m - Max G: ≤4 - Max Velocity: 500m/s - Velocity Accuracy: 0.05m/s - Heading Accuracy: 0.3 degrees - Time Pulse Accuracy: 30ns - 3.3V VCC and I/O - Current Consumption: ~29mA Tracking GPS+GLONASS - Software Configurable - Geofencing - Odometer - Spoofing Detection - External Interrupt - Pin Control - Low Power Mode - Supports NMEA, UBX, and RTCM protocols over UART or I2C interfaces - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 				
48	<p>Development Board - 32-bit</p> <ul style="list-style-type: none"> - with 2.4 GHz ultra low power dual mode Wi-Fi and Bluetooth - ESP-32 chip - High performance-price ratio; - Small volume,easily embeded to other products; - Strong function with support LWIP protocol,Freertos; - Supporting three modes: AP, STA, and AP+STA; - Supporting Lua program, easily to develop. - with 18650 Battery Holder - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 	4	pc	1400.00	5,600.00
49	<p>Loudness Sensor Module</p> <ul style="list-style-type: none"> - Dimensions: 24mm x20mm x9.8mm - Weight: G.W 9g - Battery: Exclude - Voltage: 3.5~10 VDC - Working Frequency: 50~2000 Hz - Sensitivity: -48~66 dB - Signal-to-noise Ratio: >58 dB - Output Signal range: Analog Signal (0-1023) - Inclusive of government taxes, delivery, etc. - Delivery: 30 days upon issuance of NTP 	3	pc	300.00	900.00
50	<p>High Dynamic Range Light Sensor Module</p> <ul style="list-style-type: none"> - Approximates Human eye Response - Extremely wide dynamic range 1 to 600,000,000 Counts - Lux Range: 188 uLux sensitivity, up to 88,000 Lux input measurements. - Temperature range: -30 to 80 *C - Voltage range: 3.3-5V into onboard regulator - Interface: I2C 	3	pc	900.00	2,700.00

- This board/chip uses I2C 7-bit address 0x29 (fixed)
- Dimensions: 19 x 16 x 1mm
- Weight: 1.1g

- Inclusive of government taxes, delivery, etc.
- Delivery: 30 days upon issuance of NTP

TOTAL APPROVED BUDGET FOR THE CONTRACT:

Php 200,415.00

GUIDELINES

A. Submission of Quotations

1. Quotation/s shall include the Request for Quotation and/or the Purchase Request Number as state above;
2. Pictures or brand/model names or numbers, if applicable, should be specified in the quotation/s; and
3. Quotation/s must be signed by the company's duly authorized representative.

B. Eligibility Requirements

Pursuant to Annex "H" or Consolidated Guidelines for the Alternative Methods of Procurement of the 2016 Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, as amended by Government Procurement Policy Board Resolution No. 21-2017 dated 30 May 2017, the following documents shall be submitted except for Repeat Order, Shopping under Section 52.1(a), and Negotiated Procurement under Sections 53.1 (Two-Failed Biddings), and 53.5 (Agency-to-Agency):

For Procurement of Goods

1. Upon submission of quotation
 - ✓ PhilGEPS Platinum Membership Certificate including Annex "A". If not available, the following alternate documents may be submitted:
 - PhilGEPS Registration Number
 - Mayor's Permit
 - For individuals/professionals engaged under Section 53.6, 53.7 and 53.9 of the 2016 IRR of RA No. 9184, only the Bureau of Internal Revenue (BIR) Certificate of Registration shall be submitted in lieu of the Mayor's Permit.

2. Upon issuance of Notice of Award (NOA)
 - ✓ Omnibus Sworn Statement
 - Applicable only for bidders who have submitted their quotation on item/s with a total Approved Budget for the Contract (ABC) of above Php50,000.00.
 - ✓ Income/Business Tax Return
 - Applicable only for: **a)** bidders who have submitted their quotation on item/s with a total ABC of above Php500,000.00; and **b)** bidders for Lease of Real Property and Venue (except for government agencies as lessors).

For Procurement of Infrastructure

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Philippine Contractors Accreditation Board License.

For Procurement of Consulting Services

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Professional Regulation Commission License or Curriculum Vitae.

NOTE: For new suppliers, submit a BIR Certificate of Registration for accounting purposes.

C. Terms and Conditions

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. For all kinds of procurement, the bidder who passed the bid evaluation, shall submit a duly notarized Omnibus Sworn Statement upon issuance of NOA, unless otherwise provided;
3. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
4. A penalty of one-tenth of one percent (0.001) of the total value of the undelivered goods/services shall be charged as liquidated damages for every day of delay of the delivery; and
5. The DOST-ASTI reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.