



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

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

<b>Kind of Procurement Activity:</b>	Negotiated Procurement: Small-value Procurement		
<b>Deadline of Submission of Bids:</b>	Apr-12-2021, 2:00 PM		
<b>RFQ No.:</b>	21-04-3374	<b>Date:</b>	April-06-2021
<b>PR No.:</b>	GAA-21-03-10999	<b>Date:</b>	March-08-2021

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,

**REYNALDO JOSEPH A. CALLAO JR.**  
*BAC Chairman*

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<b>Depth Camera</b> - Depth Field of View: 86° x 57° (±3)° - Depth Stream Output Resolution: Up to 1280 x 720 - Depth Stream Output Frame Rate: Up to 90 fps - RGB Sensor Resolution and Frame Rate: 1920 x 1080 at 30 fps - Minimum Depth Distance: 0.1m - Maximum Range: ~10m - Sensors: Active IR stereo, Bosch BMI055 IMU, vision processor that uses 28nm process technology and supports up to 5MIPI camera serial interface 2 lanes, image sensors that enable capturing of disparity between images up to 1280 x 720 resolution - Camera Dimensions: 90 mm x 25 mm x 25 mm  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	2	pc	30000.00	60,000.00
2	<b>Stereo Camera</b> - Depth Field of View: 110° x 70° - Lens Aperture: f/1.8 - Video Output: 4416x1242 at 15fps, 3840x1080 at 30/15 fps, 2560x720 at 60/30/15 fps, and 1344x376 at 100/60/30/15 fps - Minimum Depth Distance: 0.2m - Maximum Depth Range: 20m	1	pc	36000.00	36,000.00

	<ul style="list-style-type: none"> <li>- Object Detection Range: Up to 20m (3D), up to 40m (2D)</li> <li>- Sensors: Accelerometer, Gyroscope, Barometer, Magnetometer, Temperature sensor, 6-DoF visual-inertial stereo</li> <li>- Dimensions: 175 x 30 x 33 mm</li> <li>- Material: All-aluminium enclosure with thermal compensation of factory calibration</li>   <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>				
3	<p><b>Mobile Robot Platform - Advanced</b></p> <ul style="list-style-type: none"> <li>- Max. translational velocity: 0.26 m/s</li> <li>- Max. rotational velocity: 1.82 rad/s (104.27°/s)</li> <li>- Maximum payload: 30 kg</li> <li>- Dimensions: 281 x 306 x 141 mm</li> <li>- Weight (with programming board, battery and sensors): 1.8 kg</li> <li>- Operating time: about 2 h</li> <li>- Charging time: about 2 h 30 m</li> <li>- 2 Dynamixel XM430-W210-T servos</li> <li>- Single Board Computer: <ul style="list-style-type: none"> <li>+ Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz</li> <li>+ 1GB LPDDR2 SDRAM</li> <li>+ 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE</li> <li>+ Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps)</li> <li>+ Extended 40-pin GPIO header</li> <li>+ Full-size HDMI</li> <li>+ 4 USB 2.0 ports</li> <li>+ CSI camera port for connecting a Raspberry Pi camera</li> <li>+ DSI display port for connecting a Raspberry Pi touchscreen display</li> <li>+ 4-pole stereo output and composite video port</li> <li>+ Micro SD port for loading your operating system and storing data</li> <li>+ 5V/2.5A DC power input</li> <li>+ Power-over-Ethernet (PoE) support (requires separate PoE HAT)</li> </ul> </li> <li>- Embedded controller: Open-CR (32-bit ARM® Cortex®-M7)</li> <li>- Sensors: Camera (CSI, compatible with included SBC), LiDAR 360° LDS-01, 3-axis gyroscope, 3-axis accelerometer, 3-axis magnetometer</li>   <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	2	pc	115000.00	230,000.00
4	<p><b>USB Hacker Cable for Structure Sensor</b></p> <ul style="list-style-type: none"> <li>- USB Cable for the Structure Sensor</li> <li>- USB 2.0 port</li> <li>- allows rapid charging</li> <li>- Length: 1M</li>   <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	4	pc	3500.00	14,000.00

5	<p><b>Mobile Robot Chassis - Treaded Crawler</b></p> <ul style="list-style-type: none"> <li>- Size: 37.5*24*10.5cm (length * width * height)</li> <li>- Color: Silver/Black</li> <li>- Material: aluminum alloy</li> <li>- Track: engineering plastic (4.1cm wide, freely removable)</li> <li>- Support extended control methods: wifi, bluetooth, controller control, need to purchase separately</li> <li>- Net weight: 1.43kg</li> </ul> <p>Motor Parameters:</p> <ul style="list-style-type: none"> <li>- No-load current: about 220mA</li> <li>- Load torque: about 0.6kg.cm current 500mA</li> <li>- Power: 1.6w</li> <li>- Blocking torque: about 2kg.cm current 2A</li> <li>- Voltage: 12V</li> <li>- Speed: 300rpm</li> <li>- Shaft diameter: 4mm</li> <li>- With encoder</li> </ul> <p>Package Included:</p> <ul style="list-style-type: none"> <li>1 set Chassis plate</li> <li>4 x Motor</li> <li>4 x Shock-absorbing driving wheel</li> <li>8 x Non-damping bearing wheel</li> <li>2 x Shock-absorbing track with Screw</li> <li>1 x 18650 battery box</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	1	pc	9500.00	9,500.00
6	<p><b>Mobile Robot Chassis - Two Wheel</b></p> <ul style="list-style-type: none"> <li>- Dimensions: 217x72x72mm</li> <li>- Weight: 508g</li> <li>- Output pulse: 360cpr / circle</li> <li>- Voltage range: 6-24V</li> <li>- Rated voltage: 12V</li> <li>- No-load speed: 201rpm / m</li> <li>- No-load current: 50mA</li> <li>- Load torque: 0.53kg * cm</li> <li>- Rated power: 1.25W</li> <li>- Load current: 300mA</li> </ul> <p>Package included:</p> <ul style="list-style-type: none"> <li>1 x Car Chassis</li> <li>2 x JGA25-360 Motor</li> <li>2 x 25MM Motor Bracket</li> <li>2 x 17-4MM Couplings</li> <li>2 x 72MM Wheel</li> <li>2 x 3MM Acrylic Chassis</li> <li>4 x 12MM Copper Pillar</li> <li>4 x 30MM Copper Pillar</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	1	pc	3500.00	3,500.00
7	<p><b>Motor Control Board - Basic</b></p> <ul style="list-style-type: none"> <li>- Wide operating input voltage</li> <li>- Directly support Xbee and XBee form factor wifi, bluetooth and RF modules</li> <li>- ON/ OFF switch to control the system power from</li> </ul>	5	pc	1800.00	9,000.00

	<ul style="list-style-type: none"> <li>external motor power</li> <li>- 3 Digital I/O extensions (D14-D16)</li> <li>- S1 – S5 switch replace jump cap, allows free use for the GPIO.</li> <li>- Micro USB instead of A-B USB connector</li> <li>- Analog sensor extension port: Orange for Signal, Red for Vcc, Black for GND</li> <li>- DC Supply: USB Powered or External 6V ~ 23V DC</li> <li>- DC Output: 5V(2A) / 3.3V DC</li> <li>- Motor driver Continuous Output Current: 2A</li> <li>- Microcontroller: ATmega32u4</li> <li>- Bootloader: Arduino Leonardo</li> <li>- Compatible with the Arduino R3 pin mapping</li> <li>- Analog Inputs: A0-A5, A6 – A11 (on digital pins 4, 6, 8, 9, 10, and 12)</li> <li>- PWM: 3, 5, 6, 9, 10, 11, and 13. Provide 8-bit PWM output</li> <li>- 5 key inputs for testing</li> <li>- Auto sensing/switching external power input</li> <li>- Serial Interface: TTL Level, USB</li> <li>- Support Male and Female Pin Header</li> <li>- Built-in Xbee socket</li> <li>- Integrated sockets for APC220 RF Module and DF-Bluetooth Module</li> <li>- Three I2C/TWI Interface Pin Sets (two 90° pin headers)</li> <li>- Two way Motor Driver with 2A maximum current</li> <li>- One Stepper Motor Drive with 2A maximum current</li> <li>- Size: 89 x 84 x 14mm</li>   <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>				
8	<p><b>Motor Control Board - Advanced</b></p> <ul style="list-style-type: none"> <li>- Compatible with Robot Operating System</li> <li>- Microcontroller: STM32F746ZGT6 / 32-bit ARM Cortex®-M7 with FPU (216MHz, 462DMIPS)</li> <li>- Sensors: Gyroscope 3Axis, Accelerometer 3Axis, Magnetometer 3Axis (MPU9250)</li> <li>- Programmer: <ul style="list-style-type: none"> <li>+ ARM Cortex 10pin JTAG/SWD connector</li> <li>+ USB Device Firmware Upgrade (DFU)</li> <li>+ Serial</li> </ul> </li> <li>- Extension pins: <ul style="list-style-type: none"> <li>+ 32 pins (L 14, R 18) *Arduino connectivity</li> <li>+ Sensor module x 4 pins</li> <li>+ Extension connector x 18 pins</li> </ul> </li> <li>- Communication circuits: <ul style="list-style-type: none"> <li>+ USB (Micro-B USB connector/USB 2.0/Host/Peripheral/OTG)</li> <li>+ TTL (B3B-EH-A / Dynamixel)</li> <li>+ RS485 (B4B-EH-A / Dynamixel)</li> <li>+ UART x 2 (20010WS-04)</li> <li>+ CAN (20010WS-04)</li> </ul> </li> <li>- LEDs and buttons: <ul style="list-style-type: none"> <li>+ LD2 (red/green) : USB communication</li> <li>+ User LED x 4 : LD3 (red), LD4 (green), LD5 (blue)</li> <li>+ User button x 2</li> </ul> </li> <li>- Powers: <ul style="list-style-type: none"> <li>+ External input source</li> <li>+ 5 V (USB VBUS), 7-24 V (Battery or SMPS)</li> </ul> </li> </ul>	5	pc	14500.00	72,500.00

	<ul style="list-style-type: none"> <li>+ Default battery : LI-PO 11.1V 1,800mAh 19.98Wh</li> <li>+ Default SMPS : 12V 5A</li> <li>- External output source <ul style="list-style-type: none"> <li>+ 12V@1A(SMW250-02), 5V@4A(5267-02A), 3.3V@800mA(20010WS-02)</li> </ul> </li> <li>+ External battery Port for RTC (Real Time Clock) (Molex 53047-0210)</li> <li>- Power LED: LD1 (red, 3.3 V power on)</li> <li>- Reset button: x 1 (for power reset of board)</li> <li>- Power on/off switch x 1</li> <li>- Dimensions: 105(W) X 75(D) mm</li> <li>- Weight: 60g</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>				
9	<p><b>IMU Module</b></p> <ul style="list-style-type: none"> <li>- Application: 3 Axis of gyroscope, compass, accelerometer, barometer, thermometer</li> <li>- Working Voltage: 3 or 5V</li> <li>- Dimensions (without header): <ul style="list-style-type: none"> <li>+ Length: 1.5" / 38mm</li> <li>+ Width: 0.9" / 23mm</li> <li>+ Height: 0.125" / 3mm</li> <li>+ Weight: 2.8g</li> </ul> </li> <li>- This board/chip uses I2C 7-bit addresses 0x19 &amp; 0x1E &amp; 0x6B &amp; 0x77</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	5	pc	1350.00	6,750.00
10	<p><b>Charging Module - 18650</b></p> <ul style="list-style-type: none"> <li>- Input Voltage: 5V</li> <li>- Maximum Charging Current: 1000mA</li> <li>- Charge Cut-off Voltage: 4.2V +/- 1%</li> <li>- Battery overcharge Protection Voltage: 2.5v</li> <li>- Battery over-Current Protection: 3 A</li> <li>- Input interface: Micro USB</li> <li>- Dimensions W x L x H : 16 x 27 x 4 mm</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	10	pc	75.00	750.00
11	<p><b>Battery Management Module - 18650 2S</b></p> <ul style="list-style-type: none"> <li>- Over charge voltage:4.25-4.35v±0.05v</li> <li>- Over discharge voltage: 2.5-3.0v±0.05v</li> <li>- Max continuous current:8A</li> <li>- Max peak current:15A</li> <li>- Working temperature:-40---+50</li> <li>- Storage Temperature:-40-- +80</li> <li>- Small current:less than 3uA</li> <li>- Life cycle :more than 50000hours</li> <li>- Resistance:Less than 300mΩ</li> <li>- Short cut protection :Protectable,charge can repair</li> <li>- Size: 41*16*3.5mm</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	10	pc	250.00	2,500.00
12	<p><b>MEMS I2S Mic Module</b></p> <ul style="list-style-type: none"> <li>- INMP441-based module</li> </ul>	5	pc	225.00	1,125.00

	<ul style="list-style-type: none"> <li>- Digital I2S interface with high precision 24-bit data</li> <li>- High signal to noise ratio is 61 dBA</li> <li>- High sensitivity - 26 dBFS</li> <li>- Stable frequency response from 60 Hz to 15 kHz</li> <li>- Low power consumption: low current consumption 1.4 mA</li> <li>- High PSR: -75 dBFS</li> <li>- Input power: 1.8V to 3.3V</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>				
13	<p><b>Voltage Reference - LM4040</b></p> <ul style="list-style-type: none"> <li>- LM4040 Voltage Reference</li> <li>- Input Voltage (V): 1 - 220</li> <li>- Package: TO-92</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	20	pc	100.00	2,000.00
14	<p><b>Multipurpose Circular Saw</b></p> <ul style="list-style-type: none"> <li>- Power: 710 Watts Motor</li> <li>- Max. Depth of Cut: 21.5mm</li> <li>- No-load Speed: 17,000 rpm</li> <li>- Size Capacity: 77mm (3")</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP - Warranty: at least 1 year</p>	1	unit	12000.00	12,000.00
15	<p><b>Battery - LR44</b></p> <ul style="list-style-type: none"> <li>- Model : LR44 (357 / AG13 / A76)</li> <li>- Cell Type: Button cell</li> <li>- Nominal Voltage : (V) 1.5</li> <li>- Nominal Capacity : (mAh)* 138</li> <li>- Nominal Discharge Current : (mA) 0.2</li> <li>- Operating Temperature Range : (deg. C)** -20 to +85</li> <li>- Weight : 22 g (approx)</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	20	pc	15.00	300.00
16	<p><b>MEMS I2S Mic Module – SPH0645LM4H</b></p> <ul style="list-style-type: none"> <li>- SPH0645LM4H-based microphone module</li> <li>- Product Dimensions: 16.7mm x 12.7mm x 1.8mm / 0.7" x 0.5" x 0.1"</li> <li>- Product Weight: 0.4g / 0.0oz</li> <li>- Input Voltage: 1.6-3.6V</li> <li>- Frequency range: 50Hz - 15KHz</li> <li>- Interface: I2S</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	5	pc	750.00	3,750.00
17	<p><b>60W Adjustable Soldering Iron Kit with Carrying Case</b></p> <ul style="list-style-type: none"> <li>- 60W</li> <li>- With thermostat circuit, thermostat range 220 °C-480 °C</li> <li>- Power switch on the handle</li> <li>- Comes with 60W adjustable soldering iron, tips,</li> </ul>	4	pc	1350.00	5,400.00

	<p>tweezer, solder wire, desoldering pump, iron holder, soldering iron tip cleaner, and carrying case</p> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> <li>- Warranty: at least 1 year</li> </ul>				
18	<p><b>Silicone Soldering Mat</b></p> <ul style="list-style-type: none"> <li>- High quality high temperature resistant silicone material.</li> <li>- Thick and anti bubble design</li> <li>- High temperature resistance: direct contact 530°C.</li> <li>- Dimensions: 440mm x 310mm x 5mm</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	4	pc	850.00	3,400.00
19	<p><b>40-Pin Jumper Wire Male to Female – 30cm</b></p> <ul style="list-style-type: none"> <li>- Size: 28 AWG</li> <li>- Length: 30cm</li> <li>- Standard-pitch 0.1" (2.54mm) header</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	5	pc	70.00	350.00
20	<p><b>40-Pin Jumper Wire Female to Female – 30cm</b></p> <ul style="list-style-type: none"> <li>- Size: 28 AWG</li> <li>- Length: 30cm</li> <li>- Standard-pitch 0.1" (2.54mm) header</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	5	pc	70.00	350.00
21	<p><b>40-Pin Jumper Wire Male to Male – 30cm</b></p> <ul style="list-style-type: none"> <li>- Size: 28 AWG</li> <li>- Length: 30cm</li> <li>- Standard-pitch 0.1" (2.54mm) header</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	5	pc	70.00	350.00
22	<p><b>40-Pin Jumper Wire Male to Male – 10cm</b></p> <ul style="list-style-type: none"> <li>- Size: 28 AWG</li> <li>- Length: 10cm</li> <li>- Standard-pitch 0.1" (2.54mm) header</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	5	pc	60.00	300.00
23	<p><b>40-Pin Jumper Wire Female to Male – 10cm</b></p> <ul style="list-style-type: none"> <li>- Size: 28 AWG</li> <li>- Length: 10cm</li> <li>- Standard-pitch 0.1" (2.54mm) header</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	5	pc	60.00	300.00
24	<p><b>40-Pin Jumper Wire Female to Female – 10cm</b></p> <ul style="list-style-type: none"> <li>- Size: 28 AWG</li> <li>- Length: 10cm</li> <li>- Standard-pitch 0.1" (2.54mm) header</li> </ul>	5	pc	60.00	300.00

	<ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>				
25	<p><b>UVC Light Test Card</b></p> <ul style="list-style-type: none"> <li>- Genuine product</li> <li>- 2nd Edition Professional Test Card for UVC devices</li> <li>- Includes batch number for quality control for UV analyte production and calibration</li> <li>- 2-part Test with Color Scale Differential</li> <li>- Resilient PVC</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	10	pc	1500.00	15,000.00
26	<p><b>UV Intensity Test Card</b></p> <ul style="list-style-type: none"> <li>- Operating Temperature: -20 to 85 degrees</li> <li>- Dimension: 85.5 x 54 x 0.76mm</li> <li>- Reusable</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	20	pc	120.00	2,400.00
27	<p><b>Solder Flux</b></p> <ul style="list-style-type: none"> <li>- High viscosity no-clean flux</li> <li>- Mixture of high-quality alloyed powder and resinic pasted flux</li> <li>- Used for soldering and reballing</li> <li>- Type: RMA-223</li> <li>- Volume: 10ml/10cc</li> <li>- Dimension: 95 * 35 * 23mm</li> <li>- Weight: 17g / 0.62oz</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	5	pc	140.00	700.00
28	<p><b>Solder Paste</b></p> <ul style="list-style-type: none"> <li>- Alloy: Sn63/Pb37</li> <li>- 35g / bottle</li> <li>- Melting point: 183°C</li> <li>- Shelf life: 12 months (0~10°Crefrigerated)</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP</p>	2	btl	350.00	700.00
29	<p><b>Battery Spot Welder</b></p> <ul style="list-style-type: none"> <li>- Voltage Input: 180V - 240V AC</li> <li>- Primary Current: 2A - 15A</li> <li>- Soldering Current: 50A - 800A (Related Pulse Range 1ms - 19ms)</li> <li>- Soldering Metal Plate Thickness: 0.1 - 0.15mm</li> </ul> <p>- Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP - Warranty: at least 1 year</p>	1	unit	10000.00	10,000.00
30	<p><b>Nickel Strip</b></p> <ul style="list-style-type: none"> <li>- Pure Nickel Strip</li> <li>- Dimension: 0.15mm x 6mm x 10m</li> </ul> <p>- Inclusive of government taxes, delivery, etc.</p>	5	roll	185.00	925.00



	- Delivery: 60 days upon issuance of NTP				
31	<b>Nickel Strip – Parallel</b> - Pure Nickel Strip - Parallel (2P) - Dimension: 0.15mm x 27mm x 1m - Spacing: 20.25mm  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	10	pc	120.00	1,200.00
32	<b>18650 Battery</b> - 18650 Lithium Ion Battery - Voltage: 3.7 V - Current Rating: 3000 mAh - Charging environment temperature range: 32° to 113° F - In use temperature range: -4° to 140° F - Size: 0.73" - Diameter x 2.56" H - Weight: 0.1 lbs.  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	40	pc	330.00	13,200.00
33	<b>18650 Battery Holder</b> - Black: 2 Holes 2P - 18650 battery holder, 18650 battery bracket - Ø18.5mm - Expandable battery holder for making battery pack with 18650 cells. - Holder Material: Plastic - Dimension (LxWxH): 62mmx x 22mm(0.5") x 9mm(0.3") - Weight (5.0 grams) - 10 pcs per pack  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	20	pack	85.00	1,700.00
34	<b>18650 Battery Case – 3S7P</b> - Battery case for 18650 - 12V 3S7P - Dimension: 65x94x150mm - Internal dimensions: 60x80x146mm - Can hold 21 pcs 18650 batteries - Includes case, 3S 25A BMS, battery holders, nickel strip  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	2	pc	900.00	1,800.00
35	<b>18650 Battery Case – 63pc</b> - Battery case for 18650 - 12V 17ah - 40ah - Dimension: 180x77x168mm - Internal dimensions: 175x68x130mm - Can hold 63 pcs 18650 batteries  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	2	pc	1600.00	3,200.00

36	<b>Battery Management System Board</b> - Battery management for Lithium Ion batteries - Size: about 56mmx45mmx1.2mm - Over voltage range: 4.25-4.35v±0.05v - Over discharge voltage range: 2.3-3.0v±0.05v - Maximum operating current: 0-25A - Maximum transient current: 34-40A - Quiescent current: less than 30uA - Internal resistance: less than 100mΩ - Working temperature: -40 - +50°C - Storage condition: -40-- +80°C - Effective life: more than30000h - Short circuit protection: Yes, delayed self recovery  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	10	pc	140.00	1,400.00
37	<b>Battery Management System Board – 60A</b> - Battery management for Lithium Ion batteries - Enhanced version: Suitable for electric drills with a starting current of 120A or less and a power of 260W or less - Scope of application: Suitable for lithium batteries with nominal voltage of 3.7V and full voltage of 4.2V(including 18650,26650,polymer lithium batteries,no size limit) - Charging voltage:12.6V-13.6V - Continuous discharge current(upper limit): 60A (If the heat dissipation environment is not good,please reduce the load current) - Size: 41x55x3.4mm  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	10	pc	170.00	1,700.00
38	<b>Polyimide Film Tape</b> - 92 Orange Polyimide Electrical Tape (Bernstein colour polyimide 92 tape) - Colour: Orange - Width: 19mm - Length: 33m - Backing Material: Polyimide - Thickness: 0.08mm - Maximum Operating Temperature: +180°C - Coated on one side with a thermal curing silicone adhesive - UL510 Flame retardant  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	2	roll	4800.00	9,600.00
39	<b>Robot Arm Development Kit</b> - Metal Robot Arm Kit - Degree: 6 degrees of freedom - Material: Stainless Steel - Size(L x W x H): Approx. 260 x 260 x 170 mm/ 10.23 x 10.23 x 6.7 inch - Package Includes: 1 Piece 6DOF Robot Arm Kit and 6 Pieces Servo Motors  - Inclusive of government taxes, delivery, etc.	1	set	7500.00	7,500.00

- Delivery: 60 days upon issuance of NTP

**TOTAL APPROVED BUDGET FOR THE CONTRACT:**

**Php 545,450.00**

## **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.