



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>	Nov-02-2021, 2:00 PM		
<b>RFQ No.:</b>	21-10-3619	<b>Date:</b>	October-27-2021
<b>PR No.:</b>	GAA-21-08-11901	<b>Date:</b>	August-20-2021

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,

**GERWIN P. GUBA**  
BAC Chairman

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p><b>Adhesive Glue for Acrylic Glass for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of forty (40) units Adhesive Glue for Acrylic Glass for use in the development and prototyping of a growing platform chassis, specifically the adhesive glue will be used in joining the joineries of thee 3D printed chassis.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Impact, Heat &amp; Water Resistant</p> <p>2.2 Works with Metal, Rubber, Porcelain, Wood &amp; Most Plastics</p> <p>2.3 Bonds within seconds</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p>	40	unit	250.00	10,000.00

	<p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
2	<p><b>All Purpose Epoxy Kit for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units all purpose epoxy kit for use in the development and prototyping of a growing platform chassis, specifically the epoxy kit will ensure that the platform is leak proof and safely sealed.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Inclusion: Epoxy A and B Set</p> <p>2.2 Volume: 1 liter per can of epoxy</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	4	unit	423.50	1,694.00
3	<p><b>Acrylic Plastic Cutter for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units Acrylic Plastic Cutter for use in the development and prototyping of a growing platform chassis, specifically the acrylic cutter will be used in slicing the acrylic plastic sheets to a custom fit size of the chassis.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Cutter Material: Plastic</p> <p>2.2 Blade Material: Metal</p> <p>2.3 Inclusion: set of 10 blade pcs and 1 hook cutter</p> <p>2.4 Notes: Compatible with cutting acrylic or polycarbonate plastics.</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice</p>	4	unit	220.00	880.00

	<p>from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
4	<p><b>Acrylic Plastic Cutter Spare Blade for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of twenty (20) pcs Acrylic Plastic Cutter Spare Blade for use in the development and prototyping of a growing platform chassis, the spare blades will be loaded to the acrylic plastic cutter for slicing the acrylic plastic sheets to a custom fit size of the chassis and also to ensure that the cutting quality of the blade is precise and clean.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: Metal</p> <p>2.2 Quantity: atleast 10 blades in a set</p> <p>2.3 Noted: Compatible with the Acrylic Plastic Cutter</p> <p>3 . WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	20	pc	231.00	4,620.00
5	<p><b>One-pin Male to Female Terminal Socket for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One hundred (100) pcs One-pin Male to Female Terminal Socket for use in the development and prototyping of a growing platform chassis, specifically for making the wiring of the electronics components modular and easy plugging in/out by having a pair of male to female terminal socket. Generally this terminal socket are used in wirings of automotive/car lightings.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p>	100	pc	77.00	7,700.00

	<p>2.1 Material: PA or nylon Wire  2.2 Length: 10 cm  2.3 Wire Gauge: #18 AWG Stranded  2.4 Number of Pin: 1  2.5 Connector: Male and female connector plug pair  2.6 Notes: Waterproof, dustproof and heat resistant</p> <p>3. WARRANTY AND AFTER SALES SUPPORT  3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues  3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.  3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS  4.1 The Price of bid must be inclusive of government taxes and additional fees.  4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
6	<p><b>Two-pins Male to Female Terminal Socket for Prototyping</b></p> <p>1. GENERAL OVERVIEW  1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One hundred (100) pcs Two-pins Male to Female terminal socket for use in the development and prototyping of a growing platform chassis, specifically for making the wiring of the electronics components modular and easy plugging in/out by having a pair of male to female terminal socket. Generally this terminal socket are used in wirings of automotive/car lightings  1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS  2.1 Material: PA or nylon  2.2 Wire Length: 10 cm  2.3 Wire Gauge: #18 AWG Stranded  2.4 Number of Pin: 2  2.5 Connector: Male and female connector plug pair  2.6 Notes: Waterproof, dustproof and heat resistant</p> <p>3. WARRANTY AND AFTER SALES SUPPORT  3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues  3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.  3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS  4.1 The Price of bid must be inclusive of government taxes and additional fees.  4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	100	pc	88.00	8,800.00

7	<p><b>Three-pins Male to Female Terminal Socket for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One hundred (100) pcs Three-pins Male to Female Terminal Socket for use in the development and prototyping of a growing platform chassis, specifically for making the wiring of the electronics components modular and easy plugging in/out by having a pair of male to female terminal socket. Generally this terminal socket are used in wirings of automotive/car lightings.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: PA or nylon</p> <p>2.2 Wire Length: 10 cm</p> <p>2.3 Wire Gauge: #18 AWG Stranded</p> <p>2.4 Number of Pin: 3</p> <p>2.5 Connector: Male and female connector plug pair</p> <p>2.6 Notes: Waterproof, dustproof and heat resistant</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	100	pc	110.00	11,000.00
8	<p><b>Four-pins Male to Female Terminal Socket for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One hundred (100) pcs Four-pins Male to Female Terminal Socket for use in the development and prototyping of a growing platform chassis, specifically for making the wiring of the electronics components modular and easy plugging in/out by having a pair of male to female terminal socket. Generally this terminal socket are used in wirings of automotive/car lightings.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: PA or nylon</p> <p>2.2 Wire Length: 10 cm</p> <p>2.3 Wire Gauge: #18 AWG Stranded</p> <p>2.4 Number of Pin: 4</p> <p>2.5 Connector: Male and female connector plug pair</p>	100	pc	121.00	12,100.00

	<p>2.6 Notes: Waterproof, dustproof and heat resistant</p> <p><b>3. WARRANTY AND AFTER SALES SUPPORT</b></p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p><b>4. PAYMENT AND DELIVERY TERMS</b></p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
9	<p><b>Six-pins Male to Female Terminal Socket for Prototyping</b></p> <p><b>1. GENERAL OVERVIEW</b></p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One hundred (100) pcs Six-Pins Male to Female Terminal Socket for use in the development and prototyping of a growing platform chassis, specifically for making the wiring of the electronics components modular and easy plugging in/out by having a pair of male to female terminal socket. Generally this terminal socket are used in wirings of automotive/car lightings.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p><b>2. TECHNICAL SPECIFICATIONS</b></p> <p>2.1 Material: PA or nylon</p> <p>2.2 Wire Length: 10 cm</p> <p>2.3 Wire Gauge: #18 AWG Stranded</p> <p>2.4 Number of Pin: 6</p> <p>2.5 Connector: Male and female connector plug pair</p> <p>2.6 Notes: Waterproof, dustproof and heat resistant</p> <p><b>3. WARRANTY AND AFTER SALES SUPPORT</b></p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p><b>4. PAYMENT AND DELIVERY TERMS</b></p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	100	pc	148.50	14,850.00
10	<p><b>Automotive Electrical Wire (Red) for Prototyping</b></p> <p><b>1. GENERAL OVERVIEW</b></p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) rolls Automotive Electrical Wire</p>	2	roll	1067.00	2,134.00

	<p>(Red) for use in the development and prototyping of a growing platform chassis, specifically for the wiring of the electronics components.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: PA</p> <p>2.2 Wire Length: at least 30 meters or 1 roll</p> <p>2.3 Wire Gauge: #12 AWG Stranded</p> <p>2.4 Wire Diameter: 4 mm</p> <p>2.5 Wire Material: Pure Copper</p> <p>2.6 Color: Red</p> <p>2.7 Notes: for wiring used in automotive, car, motorcycle for heat resistance up to 105 Celsius</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
11	<p><b>Automotive Electrical Wire (Black) for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) rolls Automotive Electrical Wire (Black) for use in the development and prototyping of a growing platform chassis, specifically for the wiring of the electronics components.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: PA</p> <p>2.2 Wire Length: at least 30 meters or 1 roll</p> <p>2.3 Wire Gauge: #12 AWG Stranded</p> <p>2.4 Wire Diameter: 4 mm</p> <p>2.5 Wire Material: Pure Copper</p> <p>2.6 Color: Black</p> <p>2.7 Notes: for wiring used in automotive, car, motorcycle for heat resistance up to 105 Celsius</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p>	2	roll	1067.00	2,134.00

	<p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
12	<p><b>Automotive Electrical Wire (White) for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) rolls Automotive Electrical Wire (White) for use in the development and prototyping of a growing platform chassis, specifically for the wiring of the electronics components.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: PA</p> <p>2.2 Wire Length: at least 30 meters or 1 roll</p> <p>2.3 Wire Gauge: #12 AWG Stranded</p> <p>2.4 Wire Diameter: 4 mm</p> <p>2.5 Wire Material: Pure Copper</p> <p>2.6 Color: White</p> <p>2.7 Notes: for wiring used in automotive, car, motorcycle for heat resistance up to 105 Celsius</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	2	roll	1067.00	2,134.00
13	<p><b>Waterproof Identification (White) Wire Tags for Cable Label Printer</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of five (5) units Waterproof Identification (White) Wire Tags for Cable Label Printer for use in the development and prototyping of a growing platform chassis, specifically the identification tags will be used to provide a proper labelling on the components of the growing platform (e.g. wirings, sensors, actuators) as an aide for the end user in easy identification and in troubleshooting situations.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Product Type: Self-adhesive thermal label paper</p> <p>2.2 Length: 7.5-8 meters</p>	5	unit	374.00	1,870.00



	<p>2.3 Material: Thermal paper 2.4 At least compatibility with Niimbot D11 Printer 2.5 Color: White</p> <p>3. WARRANTY AND AFTER SALES SUPPORT 3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues 3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section. 3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS 4.1 The Price of bid must be inclusive of government taxes and additional fees. 4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
14	<p><b>Waterproof Identification (Yellow) Wire Tags for Cable Label Printer</b> 1. GENERAL OVERVIEW 1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of nine (9) units Waterproof Identification (Yellow) Wire Tags for Cable Label Printer for use in the development and prototyping of a growing platform chassis, specifically the identification tags will be used to provide a proper labelling on the components of the growing platform (e.g. wirings, sensors, actuators) as an aide for the end user in easy identification and in troubleshooting situations. 1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS 2.1 Product Type: Self-adhesive thermal label paper 2.2 Length: 7.5-8 meters 2.3 Material: Thermal paper 2.4 Compatibility with Niimbot D11 Printer 2.5 Color: Yellow</p> <p>3. WARRANTY AND AFTER SALES SUPPORT 3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues 3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section. 3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS 4.1 The Price of bid must be inclusive of government taxes and additional fees. 4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	9	unit	374.00	3,366.00
15	<p><b>Male to Male Jumper/Connecting Wire for Prototyping</b> 1. GENERAL OVERVIEW 1.1 The Advanced Science and Technology Institute is</p>	10	unit	110.00	1,100.00

	<p>seeking qualified and competent bidders to supply and delivery of ten (10) units Male to Male Jumper/Connecting Wire for use in the development and prototyping of a growing platform chassis, specifically the male to male jumper or connecting wire will be used in wiring the microprocessor and the sensors/actuators/breakout boards.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Jumper wire type: Male to Male</p> <p>2.2 Number of pins: 40</p> <p>2.3 Length: 3 inches</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
16	<p><b>Female to Female Jumper/Connecting Wire for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of ten (10) units Female to Female Jumper/Connecting Wire for use in the development and prototyping of a growing platform chassis, specifically the female to female jumper or connecting wire will be used in wiring the microprocessor and the sensors/actuators/breakout boards.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Jumper wire type: female to female</p> <p>2.2 Number of pins: 40</p> <p>2.3 Length: 3 inches</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p>	10	unit	110.00	1,100.00

	4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021				
17	<p><b>Male to Female Jumper/Connecting Wire for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of ten (10) units Male to Female Jumper/Connecting Wire for use in the development and prototyping of a growing platform chassis, specifically the male to male jumper or connecting wire will be used in wiring the microprocessor and the sensors/actuators/breakout boards.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Jumper wire type: Male to Female</p> <p>2.2 Number of pins: 40</p> <p>2.3 Length: 3 inches</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	10	unit	110.00	1,100.00
18	<p><b>Portable Cable/Wire Label Printer</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of one (1) unit Portable Cable/Wire Label Printer for use in the development and prototyping of a growing platform chassis, specifically the printer will be used to print identification labels to provide a proper labelling on the components of the growing platform (e.g. wirings, sensors, actuators) as an aide for the end user in easy identification and in troubleshooting situations. The printer must be compatible with Waterproof Identification Wire Tags.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: ABS</p> <p>2.2 Print Mode: Thermal Printing</p> <p>2.3 Paper Width: 15mm</p> <p>2.4 Effective Print Width: 12mm</p> <p>2.5 Resolution: 203dpi</p> <p>2.6 Connection: BT 4.0</p> <p>2.9 Battery: Built-in 1200mAh Lithium Battery</p>	1	unit	1760.00	1,760.00

	<p>2.10 Print Speed: 30-60mm/s  2.11 Voltage: 5V, 1A  2.12 Printer Size: 132 * 79 * 29 mm / 5.2 * 3.1 * 1.1in  2.13 Printer Weight: 208g / 7.3oz  2.14 Package Size: 183 * 113 * 40mm / 7.2 * 4.4 * 1.6in  2.15 Package Weight: 430g / 15.2oz  2.16 Charging Time: 3-4 hours</p> <p>3. ACCESSORIES: Packing List:  3.1 at least (1 ) * Label Printer  3.2 at least (1) * Charging Cable  3.3 at least (1 ) * User Manual(English)</p> <p>4. WARRANTY AND AFTER SALES SUPPORT  4.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues  4.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.  4.3 Warranty Period should be at least one(1) year</p> <p>5. PAYMENT AND DELIVERY TERMS  5.1 The Price of bid must be inclusive of government taxes and additional fees.  5.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
19	<p><b>DC to DC Power Converter Module for Prototyping</b></p> <p>1. GENERAL OVERVIEW  1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units DC to DC Power Voltage Converter Module for use in the development and prototyping of a growing platform, specifically the DC to DC power voltage converter module will be used to step-up/down the voltage for the microcontroller, microcomputer and electronics components.  1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS  2.1 One Channel input: DC 6V  2.2 12V (input voltage must be output voltage higher than 1V or more.)  2.3 Triple Output: 3.3V (+ - 0.05v error), 5.0V (+ - 0.05v error), 800mA (load current must not exceed 800ma), 12V (12V input directly to the output)  2.4 Two sides panel design, layout. Specially designed two pin mounting holes, can be directly fixed to the board extended tunnel experiments;  2.5 Multiple input and output pin, easy to use and connect;  2.6 PCB size: (L*W)3.20cm * 3.00cm/1.26""*1.18""</p> <p>3. WARRANTY AND AFTER SALES SUPPORT  3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues  3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply</p>	4	unit	77.00	308.00

	<p>Section. 3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS 4.1 The Price of bid must be inclusive of government taxes and additional fees. 4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
20	<p><b>Hydroponics Nutrient Solution Set</b></p> <p>1. GENERAL OVERVIEW 1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of twenty (20) units Hydroponics Nutrient Solution Set for use in the development and prototyping of a growing platform, specifically the hydroponics nutrient solution set comprises of two working solutions. The mixture of the working solutions with water provides the nutrient needed in order for the plant to grow. 1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS 2.1 Works with hydroponics setup 2.2 Include set of SNAP solution A and SNAP solution B per pack 2.3 500mL per solution 2.4 Includes user manual and measuring cup</p> <p>3. WARRANTY AND AFTER SALES SUPPORT 3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues 3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section. 3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS 4.1 The Price of bid must be inclusive of government taxes and additional fees. 4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	20	unit	407.00	8,140.00
21	<p><b>Dissolved Oxygen Sensor for Prototyping</b></p> <p>1. GENERAL OVERVIEW 1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) units Dissolved Oxygen Sensor for use in the development and prototyping of a growing platform, specifically the dissolve oxygen sensor will measure the amount of dissolved oxygen in water for water quality monitoring. 1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS 2.1 Probe: 2.2 Type: Galvanic Probe 2.3 Detection Range: 0~20mg/L</p>	2	unit	12600.00	25,200.00

	<p>2.4 Response Time: Up to 98% full response, within 90 seconds (25°C)</p> <p>2.5 Pressure Range: 0~50PSI</p> <p>2.6 Electrode Service Life: 1 year (normal use)</p> <p>2.7 Maintenance Period: Membrane Cap Replacement Period: 1~2 months (in muddy water); 4~5 months (in clean water) Filling Solution Replacement Period: Once every month</p> <p>2.8 Cable Length: 2 meters</p> <p>2.9 Probe Connector: BNC</p> <p>2.10 Signal Converter Board:</p> <p>2.11 Operating Voltage: 3.3~5.5V</p> <p>2.12 Output Signal: 0~3.0V</p> <p>2.13 Cable Connector: BNC</p> <p>2.14 Signal Connector: Gravity Analog Interface (PH2.0-3P)</p> <p>2.15 Dimension: 42mm * 32mm</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
22	<p><b>Water Misting System with Brass Type Nozzle for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of three (3) units Water Misting System with Brass Type Nozzle for use in the development and prototyping of growing platform, specifically the brass type nozzle will be needed in the misting system in order to control the water output being sprayed to the root zone of the platform.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: Brass Nozzle + PE Hose 6M /12M / 15M</p> <p>2.2 Hose Length: 6m / 19.69ft 12m / 39.37ft 15m / 49.21ft</p> <p>2.3 Spray Distance: 1m / 3.28ft</p> <p>2.4 Package: 1 x Hose</p> <p>2.5 6 / 16 / 21 x Nozzle</p> <p>2.6 6 / 16 / 21 x Nozzle Base</p> <p>2.7 1 x 3/4" Faucet Connector</p> <p>2.8 1 x End Cap</p> <p>2.9 20 / 40 / 50 x Tie Cable</p> <p>2.10 20 / 40 / 50 x Hose Buckle</p> <p>2.11 1 x User Manual</p>	3	unit	2167.00	6,501.00

	<p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
23	<p><b>pH Level Four(4) Buffer Calibration Solution for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One (1) gallon pH Level Four (4) Buffer Calibration Solution for use in the development and prototyping for growing platform, specifically this calibration or buffer solution will be used to calibrate the ph meter and electrodes.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Solution Type: pH</p> <p>2.2 Pack Type: Bottle</p> <p>2.3 Solution Strength pH: 4 pH</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	1	gal	2420.00	2,420.00
24	<p><b>pH Level Seven(7) Buffer Calibration Solution for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One (1) gallon pH Level Seven (7) Buffer Calibration Solution for use in the development and prototyping for growing platform, specifically this calibration or buffer solution will be used to calibrate the ph meter and electrodes.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p>	1	gal	2420.00	2,420.00

	<p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Solution Type: pH</p> <p>2.2 Pack Type: Bottle</p> <p>2.3 Solution Strength pH: 7 pH</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
25	<p><b>pH Level Ten(10) Buffer Calibration Solution for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One (1) gallon pH Level Ten (10) Buffer Calibration Solution for use in the development and prototyping for growing platform, specifically this calibration or buffer solution will be used to calibrate the ph meter and electrodes.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Solution Type: pH</p> <p>2.2 Pack Type: Bottle</p> <p>2.3 Solution Strength pH: 10 pH</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	1	gal	2420.00	2,420.00
26	<p><b>Electronic Conductivity (EC) Sensor for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) units Electronic Conductivity (EC) Sensor for use in the development and prototyping for growing platform, specifically this calibration or buffer</p>	2	unit	13499.00	26,998.00



	<p>solution will be used to calibrate the ph meter and electrodes.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Operating Voltage: +5.00 V</p> <p>2.2 PCB Size: 45 × 32mm(1.77×1.26")</p> <p>2.3 Measuring Range: 1ms/cm — 20ms/cm</p> <p>2.4 Operating Temperature: 5 – 40 °C</p> <p>2.5 Accuracy: &lt; ±10% F.S (using Arduino 10 bits ADC)</p> <p>2.6 PH2.0 Interface (3-pin SMD)</p> <p>2.7 Conductivity Electrode (Electrode Constant K = 1,BNC connector)</p> <p>2.8 Cable Length of the Electrode: about 60cm(23.62")</p> <p>2.9 DS18B20 Temperature Sensor(Waterproof)</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
27	<p><b>High Dynamic Range Digital Light Sensor for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units High Dynamic Range Digital Light Sensor for use in the development and prototyping of growing platform, specifically the high dynamic range light sensor contains both infrared and full spectrum diodes that provides a wide range of measurement from infrared, fullspectrum and human-visible light. The sensor will be used to monitor the internal lighting environment of the growing platform.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Approximates Human eye Response</p> <p>2.2 Extremely wide dynamic range 1 to 600,000,000 Counts</p> <p>2.3 Lux Range: 188 uLux sensitivity, up to 88,000 Lux input measurements.</p> <p>2.4 Temperature range: -30 to 80 *C</p> <p>2.5 Voltage range: 3.3-5V into onboard regulator</p> <p>2.6 Interface: I2C</p> <p>2.7 This board/chip uses I2C 7-bit address 0x29 (fixed)</p> <p>2.8 Dimensions: 19 x 16 x 1mm</p> <p>2.9 Weight: 1.1g</p>	4	unit	550.00	2,200.00

	<p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
28	<p><b>Temperature and Humidity Sensor for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units Temperature and Humidity Sensor for use in the development and prototyping of a growing platform, specifically the temperature and humidity sensor will be used to measure the temperature and humidity of the internal environment of the platform.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 3 to 5V power and I/O</p> <p>2.2 5mA max current use during conversion (while requesting data)</p> <p>2.3 Good for 0-100% humidity readings with 2-5% accuracy</p> <p>2.4 Good for -40 to 80°C temperature readings ±0.5°C accuracy</p> <p>2.5 No more than 0.5 Hz sampling rate (once every 2 seconds)</p> <p>2.6 Body size 27mm x 59mm x 13.5mm (1.05" x 2.32" x 0.53")</p> <p>2.7 4 pins, 0.1" spacing</p> <p>2.8 Weight (just the DHT22): 2.4g</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	4	unit	363.00	1,452.00
29	<p><b>HDMI to Micro HDMI Cable for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p>	4	unit	121.00	484.00

	<p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units HDMI to Micro HDMI Cable for use in the development and prototyping of a growing platform, specifically the HDMI to Micro HDMI cable will be used to connect a touchscreen panel and a microcomputer.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Connectors: HDMI ( A-Type) Male to Micro HDMI ( D-Type) Male</p> <p>2.2 Fully shielded to prevent unwanted EMI/RFI interference.</p> <p>2.3 Gold plated plugs</p> <p>2.4 Length: 1.5 meter</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
30	<p><b>Touchscreen Panel for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of three (3) units Touchscreen Panel for use in the development and prototyping of a growing platform, specifically the touchscreen panel will serve as the onsite graphical user interface console of the end user to access the platform. It will be connected to a microcomputer.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Screen Resolution: at least 1024x600</p> <p>2.2 Screen Size: 7 inches</p> <p>2.3 Screen Technology: LCD IPS</p> <p>2.4 Touchscreen support: Yes</p> <p>2.4 Interface: HDMI</p> <p>2.5 Optional: Audio output support</p> <p>3. Notes:</p> <p>3.1 Supports popular mini PCs such as Raspberry Pi, Jetson Nano, BB Black, Banana Pi, as well as general desktop computers</p> <p>4. Package inclusion:</p> <p>4.1 7inch HDMI LCD (H) x1</p>	3	unit	4500.00	13,500.00

	<p>4.2 HDMI cable x1 4.3 HDMI to Micro HDMI Adapter x1 4.4 USB type A plug to micro B plug cable x1 4.5 Quick start sheet x1</p> <p>5. WARRANTY AND AFTER SALES SUPPORT 5.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues 5.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section. 5.3 Warranty Period should be at least one(1) year</p> <p>6. PAYMENT AND DELIVERY TERMS 6.1 The Price of bid must be inclusive of government taxes and additional fees. 6.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
31	<p><b>MicroSD Card Storage for Prototyping</b></p> <p>1. GENERAL OVERVIEW 1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of ten (10) units MicroSD Card Storage for use in the development and prototyping for a growing platform, specifically the MicroSD Card will be plugged in to a microcomputer as the main storage drive to store the data gathered by the platform. 1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS 2.1 Flash Memory Type: Micro SD 2.2 Hardware Interface: MicroSDXC 2.3 Secure Digital Association Speed Class: Class 10 2.4 Memory Storage Capacity: 128 GB</p> <p>3. WARRANTY AND AFTER SALES SUPPORT 3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues 3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section. 3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS 4.1 The Price of bid must be inclusive of government taxes and additional fees. 4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	10	unit	847.00	8,470.00
32	<p><b>Microcontroller Board for Prototyping</b></p> <p>1. GENERAL OVERVIEW 1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units Microcontroller Board for use in the development and prototyping of a growing platform, specifically the microcontroller will be used to control the sensors and actuators installed in the</p>	4	unit	2783.00	11,132.00

	<p>platform.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Microcontroller Chipset: ATmega2560</p> <p>2.2 Input voltage: 7-12V</p> <p>2.3 I/O Pins: 54 Digital I/O Pins (14 PWM outputs)</p> <p>2.4 Analog Inputs: 16</p> <p>2.5 Flash Memory: 256k</p> <p>2.6 Clock Speed: 16Mhz</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
33	<p><b>Artificial Intelligence(AI) USB Stick for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units Artificial Intelligence (AI) USB Stick for use in the development and prototyping, specifically the AI USB Stick will be used for building smarter AI-enabled growing platform and the Vision Processing Unit (VPU) technology in the stick enables development, fine-tuning and deployment of deep neural networks on a low-power but high performance device and also provides developers a platform for faster prototyping into production.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Hardware</p> <p>2.1.1 Processor: Vision Processing Unit (VPU) technology (supports demanding computer vision and edge AI workloads efficiently)</p> <p>2.1.2 Supported frameworks: TensorFlow*, Caffe*, Apache MXNet*, Open Neural Network Exchange (ONNX*), PyTorch*, and PaddlePaddle* via an ONNX onversion</p> <p>2.1.3 Connectivity: USB 3.0 Type-A</p> <p>2.1.4 Dimensions: 2.85 in. x 1.06 in. x 0.55 in. (72.5 mm x 27 mm x 14 mm)</p> <p>2.1.5 Operating temperature: 0° C to 40° C</p> <p>2.2 Software</p> <p>2.2.1 Support toolkits for optimization deep learning models</p> <p>2.2.2 Supported operating systems: Windows, Raspbian, Linux and others</p>	4	unit	6710.00	26,840.00

	<p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
34	<p><b>LoRA-Vision Shield for Microcontroller with GPU for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of One (1) units LoRA-Vision Shield for Microcontroller with GPU for use in the development and prototyping specifically the LoRA-Vision shield will be an add-on to the microcontroller with GPU which enables the device to run embedded computer vision application, connect wirelessly using LoRa to own custom infrastructure.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Camera: at least a 320x320 pixels camera sensor module</p> <p>2.2 Resolution: 320 x 320 active pixel resolution with support for QVGA</p> <p>2.3 Image sensor: High sensitivity 3.6µ BrightSense™ pixel technology</p> <p>2.4 Microphone: 2 x MP34DT05 (datasheet)</p> <p>2.5 Connectivity: 868/915MHz ABZ-093 LoRa® Module with ARM Cortex-M0+ (datasheet)</p> <p>2.6 Length: 66 mm</p> <p>2.7 Width: 25 mm</p> <p>2.8 Weight: 8 gr</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	1	unit	5830.00	5,830.00
35	<p><b>Ethernet-Vision Shield for Microcontroller with GPU</b></p>	1	unit	3993.00	3,993.00

	<p><b>for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of one (1) unit Ethernet-Vision Shield for Microcontroller with GPU for use in the development and prototyping, specifically the Ethernet-Vision shield will be an add-on to the microcontroller with GPU which enables the device to run embedded computer vision application, connect wirelessly or using Ethernet to own custom infrastructure.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Camera: Himax HM-01B0 camera module</p> <p>2.2 Resolution: 320 x 320 active pixel resolution with support for QVGA</p> <p>2.3 Image sensor: High sensitivity 3.6µ BrightSense™ pixel technology</p> <p>2.4 Microphone: 2 x MP34DT05</p> <p>2.5 Length: 66 mm</p> <p>2.6 Width: 25 mm</p> <p>2.7 Weight: 11 gram</p> <p>3.0 Notes:</p> <p>3.1 Compatibility with Arduino Portenta H7</p> <p>4. WARRANTY AND AFTER SALES SUPPORT</p> <p>4.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>4.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>4.3 Warranty Period should be at least one(1) year</p> <p>5. PAYMENT AND DELIVERY TERMS</p> <p>5.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>5.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
36	<p><b>Tilt Pan Kit or Machine Vision Camera for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) units Tilt Pan Kit or Machine Vision Camera for use in the development and prototyping, specifically the tilt-pan kit will be a mechanism for machine vision camera to be an motion-enabled camera module for detecting movements (e.g. human, object or insect movement detection) and applicable for computer vision related applications.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Pan-Tilt angle: 135°</p> <p>2.2 Compatible with Pixy 2.0 and CMUcam5</p>	2	unit	1815.00	3,630.00

	<p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
37	<p><b>Machine Vision Camera Module for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of two (2) units Machine Vision Camera Module for use in the development and prototyping, specifically the machine vision camera is capable of detecting movements (e.g. human, object or insect movement detection) and applicable for computer vision related applications.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Processor:32-bit ARM Cortex-M4/M0 MCU; up to 264 kB SRAM, 204 MHz, dual core</p> <p>2.2 Image sensor: Aptina MT9M114, 1296x976 resolution with integrated image flow processor</p> <p>2.3 Lens field-of-view: 60 degrees horizontal, 40 degrees vertical</p> <p>2.4 Power consumption: 140 mA typical Power input: USB input (5V) or unregulated input (6V to 10V)</p> <p>2.5 RAM: 264K bytes</p> <p>2.6 Flash: 2M bytes</p> <p>2.7 Available data outputs: UART serial, SPI, I2C, USB, digital, analog</p> <p>2.8 Integrated light source, approximately 20 lumens</p> <p>2.9 Dimensions: 1.5" x 1.65" x 0.6"</p> <p>2.10 Weight: 10 grams</p> <p>3. Package includes:</p> <p>3.1 1x Pixy2 CMUcam5</p> <p>3.2 1x Pixy IO to Arduino ISP Cable</p> <p>3.3 1x Micro USB Cable</p> <p>3.4 1x Mounting Hardware</p> <p>4. WARRANTY AND AFTER SALES SUPPORT</p> <p>4.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>4.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>4.3 Warranty Period should be at least one(1) year</p>	2	unit	4500.00	9,000.00



	<p>5. PAYMENT AND DELIVERY TERMS</p> <p>5.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>5.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
38	<p><b>Night Vision USB Camera for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of ten (10) units Night Vision USB Camera for use in the development and prototyping of a growing platform, specifically the night vision usb camera will be used to capture and record image snapshot in the platform during day and night.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Camera</p> <p>2.1.1 Sensor: 1/2.7" OV2710</p> <p>2.1.2 Resolution: 2MP 1920 x 1080</p> <p>2.1.3 Data Format: MJPG/YUY2</p> <p>2.1.4 Frame Rate: MJPG 30fps@1920 x 1080; YUY2 30fps@640 x 480.</p> <p>2.2 Lens</p> <p>2.2.1 Field of View (FOV) H= 100°, D=138°</p> <p>2.2.2 Lens Mount: M12</p> <p>2.2.3 Focusing Range: 3.3ft (1M) to infinity</p> <p>2.2.4 IR Sensitivity: Integral IR filter, switch automatically based on light condition (only visible light during the daylight and IR sensitivity during the night</p> <p>2.3 Functionality and Compatibility</p> <p>2.3.1 Adjustable parameter: Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, Gain, White balance, Exposure.</p> <p>2.3.2 System Compatibility: Windows, Linux, Mac, and Android with UVC.</p> <p>2.4 Power</p> <p>2.4.1 Power Supply: USB powered 5V</p> <p>2.4.1 Working Current: MAX 300mA Physical</p> <p>2.4.3 Operating Temp.: -4°F~158°F (-20°C~+70°C).</p> <p>2.4.4 Dimension: 38mmx38mm</p> <p>2.4.5 Cable Length: 3.3ft (1M)</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	10	unit	1936.00	19,360.00
39	<p><b>Sandpaper for Prototyping</b></p>	40	pc	33.00	1,320.00

	<p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of forty (40) pcs Sandpaper for use in the development and prototyping of a growing platform chassis, specifically the sandpaper will be used for sanding of the 3D printed joineries of the chassis for a smooth and even finish.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Grit: 220</p> <p>2.2 Dimensions: 9 in by 11 in</p> <p>2.3 Notes: Waterproof and compatible with sanding acrylic glass and polycarbonate plastic</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
40	<p><b>Magnetic Flexible Bed for 3D Printer for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of four (4) units Magnetic Flexible Bed for 3D Printer for use in the development and prototyping of the growing platform chassis, specifically the magnetic flexible bed will be used with compatible 3D printer which allows for continuous and easy printing</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Size: 235 mm by 235 mm</p> <p>2.2 Bed Heat Resistance: can resist over 108 degrees Celsius or 226 degrees Fahrenheit</p> <p>2.3 Package included:</p> <p>2.3.1 *1 pcs × PEI coated steel bed plate</p> <p>2.3.2 *1 pcs × magnetic base</p> <p>2.4 Notes:</p> <p>2.4.1 At least compatible with PLA, PETG, PEEK, ABS and any other filaments.</p> <p>2.4.2 At least compatible for Creality Ender 3 Pro 3D Printer</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p>	4	unit	1815.00	7,260.00

	<p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>				
41	<p><b>Drawer Slide Roller Set for Prototyping</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders to supply and delivery of ten (10) units Drawer Slide Roller Set for use in the development and prototyping of a growing platform, specifically the drawer slide roller set will be used to support and easy access on the plant growing bed base.</p> <p>1.2 The technical specification indicated herein are minimum requirement, unless otherwise specified</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 Material: Stainless steel</p> <p>2.2 Design Style: D-2508</p> <p>2.3 Length: 22 inches</p> <p>2.4 Inclusion: 1 pair of D-2508 drawer slide roller</p> <p>2.5 Notes:</p> <p>2.5.1 * Solid steel bearing shaft, low noise during opening and closing.</p> <p>2.5.2 * Slide material thicker, bearing 100 pounds</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1 Supplier warrants the items against defects in manufacturing and shipping and delivery issues</p> <p>3.2 Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.3 Warranty Period should be at least one(1) year</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1 The Price of bid must be inclusive of government taxes and additional fees.</p> <p>4.2 Delivery of goods shall be made by the supplier on or before 01 December 2021</p>	10	unit	330.00	3,300.00
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT:</b>					<b>Php 280,520.00</b>

## 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.