




ASTI-FM 03-10
REV 0/2 APR 2018

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

Kind of Procurement Activity: Negotiated Procurement:Small-value Procurement	
Deadline of Submission of Bids: Sep-07-2018, 2:00 PM	
RFQ No.: 18-08-2084	Date: August-31-2018
PR No.: GAA-18-08-6426	Date: August-20-2018

The Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), hereby invites all interested suppliers, contractors or distributors, to submit their quotations, together with their eligibility documents for the item(s) listed below. Guidelines regarding the format and eligibility documents needed are listed at the box below the item(s) to be procured.

Quotations may be electronically mailed at bac-sec@asti.dost.gov.ph or it may be submitted via fax or by delivering it to the office on or before the deadline. For inquiries, you may call the number - 426-7423 and look for ASTI's BAC Secretariat

Respectfully,

Pedrito B. Mangahas
BAC Chairman

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	Single board computer _ Processor: Quad-core, BCM2837B0, 64-bit SoC @ 1.4GHz _ Memory: 1GB LPDDR2 SDRAM _ Connectivity: 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE _ Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps) _ Access: Extended 40-pin GPIO header _ Video and Sound: __ Full-size HDMI __ 4 USB 2.0 ports __ CSI camera port __ DSI display port __ 4-pole stereo output and composite video port _ Micro SD port for loading operating system and storing data _ Input power: __ 5V/2.5 DC power input via micro USB connector __ 5V DC via GPIO header __ Power-over-ethernet (PoE) support (requires separate PoE HAT) _ Environment: Operating temperature, 0-50C _ Low-level-peripherals: 27x GPIO, UART, I2C bus, SPI bus with two chip selects, +3.3V, +5V, Ground _ Dimension: 85mm x 56mm x 17mm _ Supports Raspian, Windows 10 IoT core, OpenELEC, OSMC, Pidora, Arch Linux, RISC OS and more	22	unit	3000.00	66,000.00
2	Single board computer case _ Easy snap-fit assembly	22	unit	400.00	8,800.00

	<ul style="list-style-type: none"> _Range of case display/access options: fully closed, sides away, birds eye view _Cut-outs of all connection points _MicroSD card cut-out _Stick on rubber feet for case stability 				
3	Heatsink for the single board computer <ul style="list-style-type: none"> _Set of 2 heat sinks _Self-adhesive thermal layer for easy application _Thermal resistance: 27C/W _Copper heat sink: 13mm x 12mm x 5mm _Aluminum heat sink: 8.5mm x 8.5mm x 12mm 	22	unit	200.00	4,400.00
4	Power Supply for the single board computer <ul style="list-style-type: none"> _High-quality power supply _1.5m cable length _Interchangeable heads for different countries _Short circuit, over current and over voltage protection _Input voltage: 90-264VAC _Input frequency: 47-63Hz _Output: 5.1V, 2.5A _Interface: microUSB _Effeciency: at least 80% _Ripple and noise: 120mVp-p Maximum 	22	unit	500.00	11,000.00
5	Micro SD card <ul style="list-style-type: none"> _At least Class 10 _At least 16GB storage/memory _Very high quality 	22	unit	500.00	11,000.00
6	USB compute stick <ul style="list-style-type: none"> _Supports 16/32-bit floating point and 8/16/32-bit integer operations _256 KB L2 cache _2MB of on-chip-memory _400GBps sustained internal memory bandwidth _600MHz Myriad-2 SoC with 12 VLIW 128-bit vector SHAVE processors optimized for machine vision _Supports Tensorflow and Caffe _Interface: USB 3.0 Type-A _Operating temp: 0-40C _Dimensions: 72.5mm x 27mm x 14mm 	5	unit	6300.00	31,500.00
7	Single board computer camera module <ul style="list-style-type: none"> _Weight: 3grams _Still resolution: 8 megapixels _Video modes: 1080p30fps, 720p60fps and 640x480p60/90fps _Linux integration: V4L2 driver available _C programming API: OpenMAX IL and others available _Sensor resolution: 3280x2464pixels _Sensor image are: 3.68mm x 2.76mm _Pixel size: 1.12x1.12 microns _Optical size: 1/4 inches _Focal length: 3.04mm _Field of view (H/V): 62.2 degrees / 48.8 degrees _Ribbon cable included 	5	unit	2000.00	10,000.00
8	Single board computer camera lens mount <ul style="list-style-type: none"> _Compatible with RPi camera module V2 	5	meter	200.00	1,000.00

	<ul style="list-style-type: none"> _Material: acrylic _Weight: 10 grams _Allows four different angles of repose _1/4 inch hole for tripod mounting 				
9	Gigabit PoE splitter <ul style="list-style-type: none"> _Gigabit PoE splitter for the single board computer _12W micro USB Power over Ethernet (PoE) up to remote 100-150m via ethernet cable _PoE 48V to 5V _Power Output Port: 5V 2.4A Micro USB Power Plug _Compatible with 44-57V DC voltage, overvoltage protection _Support the IEEE 820.3af PoE switch _Suitable for Raspberry Pi Micro USB 	12	unit	1500.00	18,000.00
10	GPIO Serial Expansion Board <ul style="list-style-type: none"> _Compatible and stackable with Raspberry Pi versions 2/3/B+ _Expanding to 3 slaves, stackable block design can turn one set of IO interface into three sets _GPIO interface, low power loss _Miscellaneous components, all-in-one _Easy to connect and use _With mounting kit 	5	unit	600.00	3,000.00
11	Temperature sensor module <ul style="list-style-type: none"> _One pin for communication _Temperature measurement range: -55°C to +125°C _Accuracy: ± 0.5°C from -10 to 85°C _Thermometer resolution is programmable from 9 to 12 bits _Converts 12-bit temperature to digital word in 750ms max _Sensor encapsulation: TO-92 _Module breakout to 3 pins 	75	unit	184.00	13,800.00
12	Temperature and humidity sensor module <ul style="list-style-type: none"> _HDC1080 sensor module _Digital humidity sensor with integrated temperature sensor _Relative Humidity Accuracy ±2% (typical) _Temperature Accuracy ±0.2°C (typical) _Excellent Stability at High Humidity _14 Bit Measurement Resolution _100 nA Sleep Mode Current _Supply Voltage 2.7V to 5.5V _Temperature Range (Operating): -20°C to +85°C _Module breakout to 4 pins 	5	unit	400.00	2,000.00
13	Pressure sensor module <ul style="list-style-type: none"> _Airspeed Breakout Board APM 2.5 MPXV7002DP _MPXV7002 piezoresistive transducer in SOP _Monolithic silicon pressure sensor _-2 to 2 kPa (-0.3 to 0.3 psi) _0.5 to 4.5 V Output _Module breakout to 3 pins 	3	unit	1100.00	3,300.00
14	400 tie point solderless breadboards <ul style="list-style-type: none"> _Half-size breadboard solderless prototyping board _Around 80x60x10 mm 	3	unit	180.00	540.00

	_At least 390 connection points				
15	10cm male to female jumper wires (Dupont-type) _10cm length _Pack of 40 pcs	4	unit	180.00	720.00
16	20cm male to female jumper wires (Dupont-type) _20cm length _Pack of 40 pcs	4	unit	200.00	800.00
17	1P Dupont pin header _Pack of 100 housing _Dupont female _2.54mm pitch _1-pin	10	roll	70.00	700.00
18	3P Dupont pin header _Pack of 100 housing _Dupont female _2.54mm pitch _3-pin	5	unit	176.00	880.00
19	Female pin connector (for Dupont cable) _10-pins per set _2.54 mm _Female pin connector _For Dupont wire	100	unit	15.00	1,500.00
20	Dupont connector kit _620pcs dupont connector kit _Compatible Wire Gauge: 18-26AWG _Pin Spacing :2.54mm _200pcs x Female Crimp Pins _200pcs x Male Crimp Pins _Pin housing/heads: 10pcs of 2x6, 10pcs of 2x5, 10pcs of 2x4, 10pcs of 2x3, 10pcs of 2x2, 20pcs of 1x6, 20pcs of 1x5, 20pcs of 1x4, 20pcs of 1x3, 40pcs of 1x2, 50pcs of 1x1	1	unit	1000.00	1,000.00
21	Dupont crimper _SN-28B Pin Dupont Crimping tool _Crimps: 18 to 28 AWG, 0.1 to 1.0 mm ² _High carbon steel _Compatible connectors: 2.54 mm, 3.96mm and KF2510 _Length: around 190mm	1	unit	1500.00	1,500.00
22	Needle nose pliers _160 mm needle/ long nose pliers _Made of chrome steel or chrome vanadium steel _Fully insulated bi-material grip handle _Induction hardened blade	1	unit	3000.00	3,000.00
23	Wire stripper plier-type _Wire stripper/cutter plier-type _Cuts 22 to 30 AWG solid wires _Sheat-type blades for clean cuts _Narrow nose fits into tight places _Hardened steel with precision ground stripping holes _Spring-loaded action for self-opening _Easy-to-read wire gauge markings on both sides for	1	unit	3200.00	3,200.00

	<ul style="list-style-type: none"> stripping in either direction _Black-oxide finish resists corrosion _Textured handles provide a firm, comfortable grip _Wire looping and bending holes 				
24	Double sided universal PCB <ul style="list-style-type: none"> _Double-sided universal prototyping board/PCB _Size: 2 x 8 cm _Grid size: 2.54 mm _Board thickness around: 1.6 mm _Hole diameter: around 1.0 mm _Material: glass fiber _All holes plated _Identical sides 	30	unit	35.00	1,050.00
25	Reel CAT6 UTP cable (Belden-like) <ul style="list-style-type: none"> _CAT6 U/UTP cable _Grey in color _305m/1000ft per roll _4-bonded pair 23AWG solid bare copper conductors _Polyofelin insulation _TIA-568-C.2 and ISO/IEC 11801 CAT6 compliant 	1	unit	13000.00	13,000.00
26	8P8C modular plugs (pack of 100) <ul style="list-style-type: none"> _For RJ45 ports _8P8C connector male _Gold contact pin plating _Unshielded _Compatible with CAT5e and CAT6 UTP cables _Pack of 100 	3	unit	550.00	1,650.00
27	RJ45 rubber boots (pack of 100) <ul style="list-style-type: none"> _Protective covers for 8P8C modular plugs _Flexible PVC attaches easily and stays in place with a snug friction fit _Jack covers feature a low profile knob for easy removal _Plug covers protect the delicate locking tab on modular plugs _Compatible with CAT5e and CAT6 UTP cables _Grey in color _Pack of 100 	2	unit	310.00	620.00
28	1 yd x 2cm back to back hook and loop black cable fastener <ul style="list-style-type: none"> _1 yd x 2cm back to back hook and loop black cable fastener 	50	unit	150.00	7,500.00
29	Ratchet controlled modular plug crimper <ul style="list-style-type: none"> _Brand new _Cut and strip flat cable by one option _Functions for 8P/RJ-45 and 6P/RJ-12, RJ-11 _All steel construction for long term durability _Crimps two sizes of plugs _Built-in cutter and stripper _Precision ground _Compact size, easy to handle _Ratchet mechanism to keep tool closed when not in use _1-year warranty 	2	unit	1700.00	3,400.00

30	Network cable tester _ Brand new _ Supports: 10/100/1000 Base-T, 10 Base-2 (Coax), RJ-45 and EIA/TIA-568A/568B _ Compatible with CAT 5, 5e, 6, 6a and 6e, and Coax cable _ Accurately test pin configurations for cable lengths up to 300m _ With transmitter unit and receiver unit interfaces _ 2 x test ports for transmitter unit interface _ 1 x test port for receiver unit interface _ Buttons for manual test and auto test _ Power/tone switch _ LED indicators _ 600-800Hz tone frequency _ Identifies proper, severed, short circuit, and cross connected pins _ Test grounding of shielded cables _ Continuous scan and manual scan modes _ With BNC to ethernet converter _ Built-in tone generator for tracing cable _ Power source: 9V dc battery _ 1-year warranty	1	unit	3700.00	3,700.00
31	Access point PoE power adapter _ Active POE splitter and connector for power supply of non-POE devices particularly IP cameras and wireless access points _ IEEE802.3af compliant with built-in detection IC _ 10/100/1000Mbps ethernet network _ Adjustable DIP switch for 5V, 9V and 12V adjustable output _ High efficiency conversion effect for power supply and data transmission. _ Double channel finishing bridge, support end-point and mid-span pattern. _ Input: 24-48V DC _ Output: 5V/9V/12V, 24W max _ Length of UTP Patch Cord CAT5e and DC power cable: 25 cm _ Deliver power up to 100 m _ 1 x RJ45 uplink port _ 1 x RJ45 lower port _ 1 x Power plug (adjustable to: 3.5*1.35mm/4.8*1.7mm/5.5*2.1mm/5.5*2.5mm)	1	unit	5000.00	5,000.00
32	1U 19" rack shelf _ 1U 19" rack shelf _ At least 10" depth _ Steel _ Ventilated _ Open top, can be used to mount more than 1U devices _ Supports at least 20lb loading capacity _ With mounting kit	1	unit	3000.00	3,000.00
33	Advanced presentation pointer _ Bluetooth and 2.4GHz wireless connection _ Battery: Rechargeable Lithium polymer, at least 85mAH _ 3D accelerometer and gyroscope	1	unit	8200.00	8,200.00

	<ul style="list-style-type: none"> _ Motion sensor _ Indicator lights (LED) for batter and connectivity _ Wireless range, at least 30m _ Charging cable, at least 5 inches _ Compatible with Windows, Mac, Chrome OS and Android 5.0 or later _ Color: black _ Accessory: Pouch _ 1 year limited warranty _ Interface: USB 				
34	Presentation pointers <ul style="list-style-type: none"> _ Color: black _ Wavelength: 640 - 660nm _ Operating distance: 10m _ 2.4 GHz wirelss connection _ 3-year harware waranty _ Battery Type: 2x AA battery _ Class 2 Laser _ Max Output: Less than 1mW _ Compatible with Windows, Mac, Linux _ At most 63 grams (both the presenter and receiver) _ Dimension: (height x width x depth):37.8 mm (1.49 in) x 115.5 mm (4.55 in) x 27.4 mm (1.08 in) _ Receiver Dimensions (height x width x depth):16.5 mm (0.65 in) x 58.6 mm (2.31 in) x 7.9 mm (0.31 in) _ Interface: USB _ Warranty: at least 1 year 	2	unit	2900.00	5,800.00
35	Desktop LED monitors, at least 1080p, 24" <ul style="list-style-type: none"> _ LED 24" monitor _ Color: black glossy _ Resolution: 1920x1080 _ Active display size: 521.40mm x 293.28mm _ Constant Ratio Static: 3000:1 (Typ.) _ Color gamut (NTSC 1976): 72% _ Aspect ratio: 16:9 _ Panel type: VA _ Tilt: -2 +/-2 ~ 22 +/-2 _ Wall mount: 75mmx75mm _ Ports supported: HDMI, VGA, headphone jack _ Maximum power consumption: 25W _ Power Consumption (Off): Less than 0.3 W _ Dimension without Stand (WxHxD): 618.0mm x 166.0mm x 394.0 mm _ Set Weight without Stand: 2.8kg _ Power supply: 100-240V _ Power cable: 1.5m _ HDMI cable included _ 3 year warranty 	4	unit	13500.00	54,000.00
36	HDMI cable <ul style="list-style-type: none"> _ HDMI male to male cable (to be tested before acceptance) _ 4K HDMI 2.0 Ready _ Supports: UHD 4k @ 2160p and 2K HD @ 1080p _ Ethernet and audio return channel _ High Speed - Category 2 - HDMI Cable (Compatible with HDMI ports v2.0, v1.4 & v1.3) _ Length: 15 Feet (4.6 Meters) _ Braided 	2	unit	1600.00	3,200.00

	_ Gold plated connectors				
37	HDMI to VGA converter _ HDMI female to VGA adapter (to be tested before acceptance) _ Mini portable size, great compatibility _ Full digital HDMI, no signal loss after converting _ Supports standard VESA VGA output _ Supports up to 1920x1200@60Hz HDMI output _ Requires no extra power supply _ With audio cable	4	unit	500.00	2,000.00
38	VGA cable _ VGA male to male cable adapter (to be tested before acceptance) _ High quality output: supports up to 1920 x 1200 resolution _ 15-pin male _ 5 meters	2	unit	600.00	1,200.00
39	Mouse _ Battery type: 1 AA battery _ Sensor resolution: 1000DPI _ Number of buttons: 3 _ With scroll wheel _ Wireless operation distance: at least 10m _ 2.4GHz wireless connectivity _ Weight: <= 50 grams _ Ergonomics: symmetric _ Report rate:125Hz _ Sensor: optical _ Dimension: 92.5mm x 55.6mm x 34.2mm _ Color: shade of gray	4	unit	600.00	2,400.00
40	9V battery charger _ Brand new _ 2-bay _ 9V smart battery charger _ Can be used for NiMH rechargeable batteries _ 220V AC, 60Hz input _ LED indicator for charging status _ Built-in circuit protection	2	unit	800.00	1,600.00
41	D batteries (single-use) _ Alkaline _ With at least 10 year shelf life at room temperature _ At least 10000 mAh capacity	8	unit	250.00	2,000.00
42	9V rechargeable batteries _ At least 175mAh _ NiMH batteries _ Pre-charged _ Rechargeable at least 500 times _ With at least 75% retainable capacity after a year	6	unit	1000.00	6,000.00
43	Extension cord _ Brand new _ 5-gang universal outlets _ 2 USB charging ports _ With individual switch per outlet with light indicator _ 6ft or 2m extension cord	5	unit	2000.00	10,000.00

	_Overloading/surge protection _Max power 2500W _Max current 10A _1-year warranty				
44	5V 2A USB wall charger _USB charger _USB Type-A port _US or EU Plug _Input: 100-240V 50/60Hz Max 0.6A AC _Output: 5.0V@2.0A DC _Certification:UL,CE,FCC,CCC _Use scope: less than 5V and 2A	4	unit	850.00	3,400.00
45	micro USB cable _Micro USB male to typeA USB male _6ft cable _Nylon braided _Gold-plated connectors _Up to 480Mbps support _28/21 AWG _Can be bent over 4000 times with no damage _18-month warranty	4	unit	850.00	3,400.00

TOTAL APPROVED BUDGET FOR THE CONTRACT:

Php 339,760.00

GUIDELINES

A. Submission of Quotations

1. The quotation should include the RFQ or the P.R. Number found above.
2. Pictures or brand/model names or numbers, if applicable, should be specified in the quotation.
3. The quotations shall include the signature of the company's representatives.

B. Eligibility Requirements

As per GPPB No. 21-2017 amending the Annex H of the 2016 R-IRR of RA 9184, the following shall be submitted:

For procurement of goods:

1. PhilGEPS Certificate of Plantinum Membership
Note: If unavailable, submit the following:
 - a. PhilGEPS Registration Number
 - b. Mayor's Permit or BIR Certificate of Registration

2. Income/Business Tax Return
Note: Applicable only for ABCs above Php500,000.00

3. Omnibus Sworn Statement

Note: Applicable only for ABCs above Php50,000.00 and must be submitted upon post-qualification

For procurement of infrastructure:

1. The requirements for goods.
2. Valid PCAB License.

For procurement of consulting services:

1. The requirements for goods.
2. Valid PRC 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, unless otherwise provided.
3. All transactions are subject to creditable withholding tax; and final Value Added Tax (VAT) or percentage tax per revenue regulation/s of the Bureau of Internal Revenue (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.
5. The Advanced Science and Technology Institute 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.