



ASTI-FM 03-11
REV 0/2 APR 2018

**DOST-ASTI Bids and Awards Committee
Invitation to Bid (Public Bidding)**

ITB No:	19-07-2559	Date:	July-11-2019
PR No:	EPIIC P2-19-06-8013	Date:	June-19-2019
Source of Funds:			
Total ABC:		Php 2,742,576.73	
Time, Date & Venue of Pre-bid Conference:		July 25, 2019, 1:30 PM at DOST-ASTI	
Time and Date of Submission of Bids:		August 06, 2019, 12:00 PM	
Time, Date & Venue of Opening Bids:		August 06, 2019, 1:30 PM at DOST-ASTI	
Date of availability of Complete Set of Documents:		July 17, 2019	
Deadline of Potential Bidder's Clarifications:		July 27, 2019	
Deadline of ASTI's Supplemental Bid Bulletin:		July 30, 2019	
Delivery Schedule:			

The Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), hereby invites all interested bidders to submit their bids for the item(s) listed below. Guidelines regarding the format, eligibility, technical and financial documents needed are described in the Instruction to Bidders of the Philippine Bidding Documents

Bidding will be conducted through open competitive bidding procedures using a non discretionary "pass/fail" criterion as specified in the 2016 R-IRR of RA 9184.

A complete set of Bidding Documents may be purchased by interested bidders upon payment of a fee for the Bidding Documents. It is also downloadable for free of charge at DOST-ASTI's website - www.asti.dost.gov.ph

For further inquiries, contact ASTI's BAC Secretariat via email at bac-sec@asti.dost.gov.ph. Interested bidders may also call the number - (632)-426-7423 and look for ASTI's BAC Secretariat.

Respectfully


PEDRITO B. MANGHAS
Chairperson, BAC-1

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	Supply and Delivery of One (1) Lot Design Workstations Includes: I. Thirteen (13) units of Laptop with the following specifications: a. Processor: at least Intel i7-8750H (8th Generation), 6 cores (9M Cache, up to 4.10 GHz) or equivalent b. Operating Sytem: at least Windows 10 64bit c. Display: 15.6" FHD (1920x1080), Anti-Glare IPS Panel d. Chipset: at least HM370 or equivalent e. Graphics: at least NVIDIA GeForce RTX 2060, 6GB GDDR6 or equivalent f. Memory: at least DDR4 2666Mhz 8GB*1 RAM, 2 Sockets, Max 32GB g. Number of DIMM Slot: 2 Slots h. SSD: h.1. 1x M.2 SSD slot (at least NVMe PCIe Gen3)	1	lot	1918601.21	1,918,601.21

- h.2. 1x M.2 SSD Combo slot (at least NVMe PCIe Gen3 / SATA)
- i. HDD: 1x 2.5" SATA HDD
- j. Storage: at least 1TB 7200rpm HDD
- k. Webcam: HD type (30fps@720p)
- l. Keyboard: Single-Color Backlight Keyboard
- m. LAN: at least Killer Gb LAN or equivalent (automatically identify and accelerate specific website traffic in addition to networked applications)
- n. Communication: Bluetooth 5.0, 802.11 AC Wi-Fi
- o. Speaker: 2x 3W
- p. Ports:
 - p.1. 1x USB3.1 Type-C (Gen2)
 - p.2. 2x USB3.1 Type-A (Gen1)
 - p.3. 1x USB3.1 Type-A (Gen2)
 - p.4. 1x HDMI (supports 4K @ 60Hz)
 - p.5. 1x Mini-DisplayPort
 - p.6. 1x Mic-in
 - p.7. 1x Headphone-out (SPDIF)
 - p.8. 1x RJ45
- q. Card Reader: 1x SD (XC/HC)
- r. Battery: at least 6-cell 51Wh Li-Ion
- s. AC Adapter: 180W adapter
- t. Dimension (WxDxH) mm: 383 x 260 x 29.5
- u. Warranty: 2 Years
- v. With laptop bag/ manufacturer issued carrying case

II. Six (6) units of Monitor with the following specifications:

- a. Panel Size: 27"
- b. Panel Resolution: 2560 x 1440 (Up to 144Hz)
- c. Refresh Rate: 144Hz
- d. Response Time: 1ms (MPRT)
- e. Panel Type: VA
- f. Brightness (nits): 300
- g. Viewing Angle: 178°
- h. Aspect Ratio: 16:9
- i. Curvature: 1800R
- j. Contrast Ratio: 3000:1
- k. Display Colors: 16.7M
- l. Video ports:
 - l.1. 1x DP
 - l.2. 2x HDMI (2.0)
- m. USB ports:
 - m.1. 2x USB 2.0
 - m.2. 1x USB 2.0 Type B (PC to Monitor)
- n. Audio ports: 1x Earphone out
- o. with security slot/ lock
- p. Anti-glare
- q. Design: Frameless
- r. Control: 5-way OSD Navigation joystick
- s. Power
 - s.1. Type: internal adaptor
 - s.2. Input: 220~240V, 50~60Hz
- t. Adjustment:
 - t.1. Tilt: -5°~20°
 - t.2. Height: 0~130 mm
- u. The color gamut follows the CIE 1976 testing standard

	<p>Note: The Bidder shall supply all items with the specifications equal to or better than as shown above.</p> <p>All inclusive of government fees, taxes and duties At least one (1) year warranty (parts & labor) for all items Delivery Date: 45 days upon issuance of NTP</p>				
2	<p>Supply and Delivery of One (1) Lot Wireless Mouse -For the design workstations Includes: I. Ten (10) units Wireless Optical Mouse with the ff specifications: a. Type: Wireless b. Color: Black/Gray (majority) c. Connection: 2.4G Hz d. Ergonomic Design: Symmetric e. Sensor: Optical f. Resolution: 1000 DPI g. Report Rate: 125Hz h. Buttons No.: 3 i. Receiver: Nano USB Receiver j. Power Source: 1AA Alkaline Battery k. System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10 l. Operating range: 10-15m m. Battery life: up to 12hrs</p> <p>II. Six (6) units Wireless Trackball Mouse with the ff specifications: a. Wireless technology: Advanced 2.4 GHz wireless connectivity (unifying supported) b. Wireless operating distance: approx 10 m c. includes software support d. OS Support: Windows XP, Windows XP x64, Windows Vista, Windows Vista x64, Windows 7, Windows 7 x64, Mac OS X 10.5.x to 10.6.x (LCC 3.3) e. Connection Type: Cordless USB f. Sensor f.1. Type: Laser, not visible f.2. Resolution: 540 g. DPI (Max): 400 (not hardware or software adjustable) h. Connect / Power Button: On/Off switch i. FreeSpin / Ratchet Mode: N/A j. Battery Size and Type: 1 AA Alkaline (Not Rechargeable) k. Battery Replacement: Replaceable l. Battery Life: Up to 18 Months m. Indicator Lights (LED): Battery/Power o. Number of buttons: 5 p. Scroll wheel (Y/N): Yes q. Package contents: q.1. Trackball q.2. Unifying reciever q.3. 1x AA battery q.4. user documentation</p>	1	lot	47513.52	47,513.52

Note: The Bidder shall supply all items with the specifications equal to or better than as shown above.

All inclusive of government fees, taxes and duties
 At least one (1) year warranty for all items
 Delivery Date: 30 days upon issuance of NTP

3	<p>Supply and Delivery of One (1) lot Mobile Computing Device Includes: l. Five (5) units of Laptop (Highly Mobile) with the following specifications: a. Processor: at least Intel i7-8550U (8th Generation), 4 cores up to 4.0GHz or equivalent b. Operating System: at least Windows 10 64-bit c. Graphics: at least NVIDIA GeForce MX150, 2GB GDDR5 or equivalent d. Webcam: d.1. 720p HD camera with sliding cover that can be opened and closed d.2. IR camera for facial recognition e. Memory: at least 8GB 2400MHz DDR4 f. Storage: f.1. at least 128GB SSD via M.2 card slot f.2. at least 1TB HDD 5400 RPM SATA 6.0Gb/s, 2.5" wide g. Audio: g.1. with surround sound technology similar to or better than Dolby Audio Premium g.2. with Dual-array microphones h. Battery: at least integrated Li-Ion 24Wh battery and external Li-Ion 24Wh i. Display: 14" FHD IPS j. Dimensions (W x D x H): 336.6 mm x 232.5 mm x 19.95 mm / 13.25" x 9.15" x .078" k. Weight: 1.58 kg / 3.49 lbs l. Color: Black m. Security: m.1. with Fast Identity Online (FIDO) authentication m.2. with touch fingerprint reader (anti-spoofing technology for log-in and security of data) m.3. IR camera for facial recognition m.4. Sliding cover that be can open and close m.5. dTPM 2.0 m.6. security lock/slot similar to Kensington or better n. WLAN: n.1. Wireless-AC (2 x 2) n.2. Bluetooth 4.2 o. WWAN: at least integrated global mobile broadband LTE-A p. Ports: p.1. support for Intel Thunderbolt 3 p.2. USB-C p.3. 2 x USB 3.0 p.4. Headphone and microphone combo jack p.5. 4-in-1 SD card reader (SD, MMC, SDHC, SDXC) p.6. HDMI p.7. RJ45 p.8. Smart card reader p.9 Nano SIM</p>	1	lot	716462.00	716,462.00
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- q. Accessories includes:
 - q.1. one (1) laptop sleeve
 - q.2. one (1) manufacturer issued carrying case
 - q.3. one (1) additional 16GB Non-ECC RAM Module (DDR4 2400MHz) DIMM Memory
- r. Warranty: three (3) years On-site

II. Four (4) units of Tablet with accessories with the following specifications:

- a. Processor: at least Octa-Core (2.35 GHz + 1.9 GHz) or equivalent
- b. Display:
 - b.1. Size (Main Display): 10.5" (267.2 mm)
 - b.2. Resolution (Main Display): 2560 x 1600 (WQXGA)
 - b.3. Technology (Main Display): Super AMOLED
 - b.4. Color Depth (Main Display): 16M
 - b.5. with Stylus Support
- c. Camera:
 - c.1. Main Camera
 - c.1.a. Resolution: 13.0 MP
 - c.1.b. with Auto Focus and Flash
 - c.2. Front Camera
 - c.2.a. Resolution: 8.0 MP
 - c.3. Video Recording Resolution: UHD 4K (3840 x 2160) @ 30fps
- d. Memory:
 - d.1. RAM Size: at least 4GB
 - d.2. ROM Size: at least 64GB
 - d.3. External Memory Support: MicroSD (Up to 400GB)
- e. Network/Bearer:
 - e.1. 2G GSM: GSM850, GSM900, DCS1800, PCS1900
 - e.2. 3G UMTS: 1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900)
 - e.3. 4G FDD LTE: B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B7 (2600), B8 (900), B12 (700), B13 (700), B17 (700), B20 (800), B28 (700), B66 (AWS-3)
 - e.4. 4G TDD LTE: B38 (2600), B40 (2300), B41 (2500)
- f. Connectivity
 - f.1. ANT+: Yes
 - f.2. USB Version: USB 3.1 Gen 1
 - f.3. Location Technology: GPS, Glonass, Beidou, Galileo
 - f.4. Earjack: 3.5mm Stereo
 - f.5. MHL: No
 - f.6. Wi-Fi: 802.11 a/b/g/n/ac 2.4G+5GHz, VHT80; MU-MIMO
 - f.7. Wi-Fi Direct: Yes
 - f.8. Bluetooth Version: Bluetooth v5.0
 - f.9. NFC: No
 - f.10. Bluetooth Profiles: A2DP, AVRCP, DI, HFP, HID, HOGP, HSP, MAP, OPP, PAN, PBAP
 - f.11. with PC Sync
- g. Operating System: at least Android 8.1
- h. Dimension (HxWxD, mm): 249.3 x 164.3 x 7.1
- i. Weight (g): 483

	<p>j. Battery: 7300 mAh</p> <p>k. Audio and Video:</p> <p>k.1. Video</p> <p>k.1.a. Format support for: MP4, M4V, 3GP, 3G2, WMV, ASF, AVI, FLV, MKV, WEBM</p> <p>k.1.b. Resolution: UHD 4K (3840 x 2160) @ 60fps</p> <p>k.2. Audio</p> <p>k.2.a. with 4 speakers tuned by surround sound technology similar to or better than Dolby Atmos</p> <p>k.2.b. Format support for: supports MP3, M4A, 3GA, AAC, OGG, OGA, WAV, WMA, AMR, AWB, FLAC, MID, MIDI, XMF, MXMF, IMY, RTTTL, RTX, OTA</p> <p>l. Required Accessories:</p> <p>l.1. with tablet pen/ stylus</p> <p>l.2. charging dock compatible with item</p> <p>l.3. manufacturer issued Book Cover</p> <p>l.4. Keyboard</p> <p>l.5. Mouse</p> <p>l.6. Multi Port Adapter</p> <p>l.6.a. Interface: 4K 30Hz HDMI, USB-A 3.0, Ethernet, Power supply (Type-C)</p> <p>l.6.b. Color: Black</p> <p>l.6.c. Cable Length: 0.15 m</p> <p>l.6.d. Dimension (WxHxD): 79.44 x 250.05 x 14.3 mm</p> <p>l.7. HDMI Adapter</p> <p>l.7.a. Interface: USB Type-C</p> <p>l.7.b. Color: Black</p> <p>l.7.c. 4K 60Hz HDMI output</p> <p>l.7.d. Cable Length: 0.095 m</p> <p>l.7.e. Dimension (WxHxD): 57 x 24 x 11.7 mm</p> <p>l.8. HDMI Adapter with long cable</p> <p>l.8.a. Interface: USB Type-C</p> <p>l.8.b. Color: Black</p> <p>l.8.c. 4K 60Hz HDMI output</p> <p>l.8.d. Cable Length: 1.380 m</p> <p>l.8.e. Dimension (WxHxD): 24 x 1500 x 11 mm</p> <p>m. Sensors: Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall sensor, Iris sensor, RGB light sensor, Proximity sensor</p> <p>n. Warranty: one (1) year parts & labor for hardware</p> <p>Note: The Bidder shall supply all items with the specifications equal to or better than as shown above.</p> <p>All inclusive of government fees, taxes and duties Delivery Date: 45 days upon issuance of NTP</p>				
4	<p>Supply and Delivery of One (1) Lot x86-based Quad Core Single Board Computer and Accessories</p> <p>Five (5) Units of x86-based Quad Core Single Board Computer</p> <p>l. Specifications:</p> <p>a. at least Intel Atom E3845 CPU (Bay Trail-I) quad core 1.91 GHz or compatible</p> <p>b. Integrated Intel HD Graphics with Open Source hardware-accelerated drivers for Linux OS</p> <p>c. Virtualization extensions (VT-x)</p> <p>d. AES instructions</p>	1	lot	60000.00	60,000.00

- e. At least 2GB DDR3L 1067MT/s DRAM
- f. 8 MB SPI Flash (TianoCore UEFI/CoreBoot/SeaBIOS/etc.)
- g. High-speed expansion connector with additional mPCIe, SATA, USB
- h. Ports:
 - h.1. 1x USB 3.0 host port
 - h.2. 1x USB 2.0 host port
 - h.3. 1x Gigabit Ethernet port (RJ45)
 - h.4. 1x SATA2 3Gb/sec port
 - h.5. 1 x Serial debug header
 - h.6. Firmware flash port header
 - h.7. 1x Micro SD slot
 - h.8. 1x HDMI® port (microHDMI connector)
 - h.9. Low speed expansion port
 - h.10. High speed expansion port
- i. Certifications: FCC Class B, CE, IEC-60950, RoHS/WEEE
- j. include compatible case/enclosure
- k. include AC/DC 5V 4A 20W Switching Adapter 2.1mm

II. Accessories Includes:

- 1. Two (2) units Low-speed expansion boards with mounting hardware compatible with the Item mentioned above
- 2. Two (2) units Daughter card with breadboard T-connector and ribbon cable compatible with the Item mentioned above

Note: The Bidder shall supply all items with the specifications equal to or better than as shown above.

All inclusive of government fees, taxes and duties.

At least one (1) year warranty for all items.

Delivery Period: 30 days upon receipt of NTP

TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):

Php 2,742,576.73

RESERVATION CLAUSE

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.