



ASTI-FM 03-10
REV 5/ 30 APR 2024

DOST-ASTI Bids and Awards Committee
REQUEST FOR QUOTATION

Kind of Procurement Activity:	Negotiated Procurement:Small-value Procurement		
Deadline of Submission of Bids:	Nov-18-2024, 2:00 PM		
RFQ No.:	24-11-5095	Date:	November-13-2024
PR No.:	GAA-24-11-20252	Date:	November-07-2024

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the enlisted item/s below. Bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, except otherwise specified in the requirements. Award may be considered for prospective bidder/s proven to be the single/lowest calculated and responsive quotation among all other quotations. Guidelines on the format of quotations and eligibility documents are listed below. Kindly follow the prescribed GUIDELINES to avoid DISQUALIFICATION.

Quotations may be submitted 1) manually to the BAC Secretariat at G/F DOST-ASTI Bldg., UP Technology Park Complex, CP Garcia Ave., UP Campus, Diliman, Quezon City or 2) sent via electronic mail at bac-sec@asti.dost.gov.ph. For further information, please contact the BAC Secretariat at +63 2 8249-8500 loc. 1206/1212.

Thank you.

BAYANI BENJAMIN R. LARA
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p>Network Gateway / Controller - WAN 2.5GbE RJ45 / 10G SFP+, Lan 8 x GbE RJ45 / 1 x 10GbE SFP+, PoE</p> <p>1. Background / Objectives.</p> <p>1.1. Enterprise-grade gateway console and controller for network equipment and devices for use in video and live event production network.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. General.</p> <p>2.1.1. Full application suite for device management of natively supported network devices.</p> <p>2.2. Mechanical.</p> <p>2.2.1. Dimensions: 442.4 mm x 43.7 mm x 285.6 mm / 17.4 inch x 1.7 inch x 11.2 inch.</p> <p>2.2.2. Enclosure materials: Aluminium CNC, SGCC steel.</p> <p>2.2.3. Mount material: SGCC steel.</p> <p>2.3. Hardware.</p>	1	unit	45340.00	45,340.00

- 2.3.1. Processor: Quad-core ARM Cortex-A57 at 1.7 GHz.
- 2.3.2. System memory: 4 GB DDR4.
- 2.3.3. On-board storage.
 - 2.3.3.1. 16 GB eMMC.
 - 2.3.3.2. Integrated 128 GB SSD.
- 2.3.4. Management interface.
 - 2.3.4.1. Ethernet.
 - 2.3.4.2. Bluetooth.
- 2.3.5. Networking interface.
 - 2.3.5.1. LAN.
 - 2.3.5.1.1. 8 x GbE RJ45 ports.
 - 2.3.5.1.2. 1 x 10G SFP+ port.
 - 2.3.5.2. WAN.
 - 2.3.5.2.1. 1 x 2.5 GbE RJ45 port.
 - 2.3.5.2.2. 1 x 10G SFP+ port.
- 2.3.6. PoE interface.
 - 2.3.6.1. 6 x PoE (Pair A 1, 2+; 3, 6-).
 - 2.3.6.2. 2 x PoE+ (Pair A 1, 2+; 3, 6-).
- 2.3.7. IDS/IPS throughput: 3.5 Gbps.
- 2.3.8. Power method.
 - 2.3.8.1. 1 x Universal AC input, 100-240V AC, 4.4A Maximum, 50/60 Hz.
 - 2.3.8.2. 1 x USP-RPS DC input, 52V DC, 3.94A.
- 2.3.9. Power supply: AC/DC, internal, 240W.
- 2.3.10. Supported voltage range: 100 - 240V AC.
- 2.3.11. Maximum power consumption: 50W (Excluding PoE output).
- 2.3.12. PoE Budget: 180W.
- 2.3.13. Maximum PoE wattage per port by PSE.
 - 2.3.13.1. PoE: 15.4W.
 - 2.3.13.2. PoE+: 30W.
- 2.3.14. Voltage range PoE mode.
 - 2.3.14.1. PoE: 44-57V.
 - 2.3.14.2. PoE+: 50-57V.
- 2.3.15. ESD/EMP protection: Air: ± 15kV, contact: ± 8kV.
- 2.3.16. Liquid Crystal Module (LCM) display: 1 x 1.3-inch touchscreen.
- 2.3.17. Button: Factory reset.
- 2.3.18. Operating temperature: -10 to 40 degrees C / 14 to 104 degrees F.
- 2.3.19. Operating humidity: 5 to 95% noncondensing.
- 2.3.20. Certifications: CE, FCC, IC.

2.4. Gateway Features.

- 2.4.1. Performance.
 - 2.4.1.1. Redundant WAN with failover and load balancing.
 - 2.4.1.2. WiFi QoS with natively supported APs.
 - 2.4.1.3. Application, domain, and country-based QoS.
 - 2.4.1.4. Application and device type identification.
 - 2.4.1.5. Additional internet failover with LTE Backup.
 - 2.4.1.6. Internet quality and outage reporting.
- 2.4.2. Security.
 - 2.4.2.1. Application-aware firewall rules.
 - 2.4.2.2. Signature-based IPS/IDS threat detection.
 - 2.4.2.3. Content, country, domain, and ad filtering.
 - 2.4.2.4. VLAN/subnet-based traffic segmentation.
 - 2.4.2.5. Full stateful firewall.

	<p>2.4.3. Advanced Networking.</p> <p>2.4.3.1. License-free SD-WAN.</p> <p>2.4.3.2. WireGuard, L2TP and OpenVPN server.</p> <p>2.4.3.3. OpenVPN client.</p> <p>2.4.3.4. OpenVPN and IPsec site-to-site VPN.</p> <p>2.4.3.5. One-click Teleport and Identity VPN.</p> <p>2.4.3.6. Policy-based WAN and VPN routing.</p> <p>2.4.3.7. DHCP relay.</p> <p>2.4.3.8. Customizable DHCP server.</p> <p>2.4.3.9. IGMP proxy.</p> <p>2.4.3.10. IPv6 ISP support.</p> <p>2.5. LEDs.</p> <p>2.5.1. Ethernet: White: link/activity.</p> <p>2.5.2. SFP+: White: link/activity.</p> <p>2.5.3. HDD: White: disk activity, Amber: disk error.</p> <p>2.5.4. RPS: Blue: ready.</p> <p>3. Warranty: 12 months.</p> <p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>				
2	<p>Access Point - Dual-Band, Mesh, WiFi 6</p> <p>1. Background / Objectives.</p> <p>1.1. WiFi access device for use in video and live event production network.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. Compatibility.</p> <p>2.1.1. Natively compatible with "Network Gateway / Controller - WAN 2.5GbE RJ45 / 10G SFP+, Lan 8 x GbE RJ45 / 1 x 10GbE SFP+, PoE" application suite for network device management.</p> <p>2.2. Mechanical.</p> <p>2.2.1. Dimensions: Diameter 48.5 mm x 159.5 mm / Diameter 1.9 inch x 6.3 inch.</p> <p>2.2.2. Weight: 400 g.</p> <p>2.2.3. Enclosure material: Polycarbonate, aluminum.</p> <p>2.2.4. Mount materials: Polycarbonate.</p> <p>2.2.5. Weatherproofing: IPX5.</p> <p>2.3. Hardware.</p> <p>2.3.1. Networking interface: 1 x GbE RJ45 port.</p> <p>2.3.2. Management interfaces.</p> <p>2.3.2.1. Ethernet.</p> <p>2.3.2.2. Bluetooth.</p> <p>2.3.3. Power method: PoE.</p> <p>2.3.4. Power supply.</p> <p>2.3.4.1. PoE switch.</p> <p>2.3.4.2. 48V, 0.32A PoE adapter (included).</p> <p>2.3.5. Supported voltage range: 44-57V DC.</p>	1	unit	15500.00	15,500.00

	<p>2.3.6. Maximum power consumption: 13W.</p> <p>2.3.7. Maximum TX power.</p> <p>2.3.7.1. 2.4 GHz: 22 dBm.</p> <p>2.3.7.2. 5 GHz: 26 dBm.</p> <p>2.3.8. MIMO.</p> <p>2.3.8.1. 2.4 GHz: 2 x 2 (DL/UL MU-MIMO).</p> <p>2.3.8.2. 5 GHz: 4 x 4 (DL/UL MU-MIMO).</p> <p>2.3.9. Maximum Data Rate.</p> <p>2.3.9.1. 2.4 GHz: 573.5 Mbps.</p> <p>2.3.9.2. 5 GHz: 4.8 Gbps.</p> <p>2.3.10. Antenna gain.</p> <p>2.3.10.1. 2.4 GHz: 3 dBi.</p> <p>2.3.10.2. 5 GHz: 5 dBi.</p> <p>2.3.11. LEDs: White/blue.</p> <p>2.3.12. Button: Factory reset.</p> <p>2.3.13. Mounting.</p> <p>2.3.13.1. Wall, desktop, pole.</p> <p>2.3.13.2. Ceiling mount (Optional).</p> <p>2.3.14. Ambient Operating temperature: -30 to 60 degrees C / -22 to 140 degrees F.</p> <p>2.3.15. Ambient Operating humidity: 5 to 95% noncondensing.</p> <p>2.3.16. Certifications: CE, FCC, IC.</p> <p>2.4. Software.</p> <p>2.4.1. WiFi standards: 802.11a/b/g/n/ac/ax (WiFi 6).</p> <p>2.4.2. Wireless security: WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3).</p> <p>2.4.3. BSSID: 8 per radio.</p> <p>2.4.4. VLAN: 802.1Q.</p> <p>2.4.5. Advanced QoS: Per-user rate limiting.</p> <p>2.4.6. Guest traffic isolation.</p> <p>2.4.7. Concurrent clients: 300+.</p> <p>2.4.8. Zero wait DFS.</p> <p>2.5. Supported Data Rates</p> <p>2.5.1. 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps.</p> <p>2.5.2. 802.11b: 1, 2, 5.5, 11 Mbps.</p> <p>2.5.3. 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps.</p> <p>2.5.4. 802.11n: 6.5 Mbps to 600 Mbps (MCS0 - MCS31, HT 20/40).</p> <p>2.5.5. 802.11ac: 6.5 Mbps to 3.4 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160).</p> <p>2.5.6. 802.11ax: 7.3 Mbps to 4.8 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160).</p> <p>3. Warranty: 12 months.</p> <p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>				
3	<p>Network Rackmount Console</p> <p>1. Background / Objectives.</p> <p>1.1. Device rack to hold equipment for use in use in video and live event production network.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are</p>	2	unit	26000.00	52,000.00

	<p>acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. General.</p> <p>2.1.1. Device rack.</p> <p>2.1.2. 24-port blank patch panel.</p> <p>2.1.3. Toolless assembly and device mounting.</p> <p>2.1.4. Lockable casters.</p> <p>2.2. Mechanical.</p> <p>2.2.1. Dimensions.</p> <p>2.2.1.1. With handle and caster: 519 mm x 460 mm x 485 mm / 20.43 inch x 18.11 inch x 19.09 inch.</p> <p>2.2.1.2. Without handle and caster: 519 mm x 460 mm x 351 mm / 20.43 inch x 18.11 inch x 13.82 inch.</p> <p>2.2.2. Weight: 10.3 kg / 22.7 lb.</p> <p>2.2.3. Materials.</p> <p>2.2.3.1. Frame/Bracket: Cold rolled carbon steel (SPCC).</p> <p>2.2.3.2. Handle: Stainless steel.</p> <p>2.2.4. Treatment: Liquid coating.</p> <p>2.2.5. Rack Height: 6U.</p> <p>2.2.6. Rack Type: Open frame.</p> <p>2.2.7. Max. weight capacity: 35 kg / 77 lb.</p> <p>3. Warranty: 12 months.</p> <p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>				
4	<p>SATA SSD 2.5-inch - 1920GB</p> <p>1. Background / Objectives.</p> <p>1.1. Solid State Drive (SSD) storage device used in Network Attach Storage (NAS) to store production media and files.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. Compatibility.</p> <p>2.1.1. Compatible with current equipment.</p> <p>2.1.1.1. Network Attached Storage (NAS) - Rackmount 1U, 4-Bay, Diskless, 2103/1074 MB/s R/W (Synology RS822RP+).</p> <p>2.1.2. SSD unit must be listed in current equipment's compatibility list.</p> <p>2.2. General.</p> <p>2.2.1. Capacity: 1,920 GB.</p> <p>2.2.2. Form Factor: 2.5 inch.</p> <p>2.2.3. Interface: SATA 6 Gb/s.</p>	5	unit	40000.00	200,000.00

	<p>2.3. Performance.</p> <p>2.3.1. Sequential read (128 KB, QD32): 530 MB/s.</p> <p>2.3.2. Sequential write (128 KB, QD32): 500 MB/s.</p> <p>2.3.3. Random Read (4KB, QD32): 98,000 IOPS.</p> <p>2.3.4. Random Write (4KB, QD32): 60,000 IOPS.</p> <p>2.4. Endurance and Reliability.</p> <p>2.4.1. Terabytes Written (TBW): 4,800 TB (based on JESD219A enterprise workload).</p> <p>2.4.2. Mean Time Between Failures (MTBF): 1.5 million hours.</p> <p>2.4.3. Uncorrectable Bit Error Rates (UBER): <1 sector per 10E17 bits read.</p> <p>2.4.4. Power Loss Protection.</p> <p>2.5. Power Consumption.</p> <p>2.5.1. Supply Voltage: 5 V (+/- 5%).</p> <p>2.5.2. Active Read (Typ.): 2.8 W.</p> <p>2.5.3. Active Write (Typ.): 3.1 W.</p> <p>2.5.4. Idle: 1.4 W.</p> <p>3. Accessories.</p> <p>3.1. Any required accessory, fixture or fittings for proper installation into NAS device.</p> <p>4. Installation.</p> <p>4.1. Assistance by Supplier/External Provider in installing the storage devices into the NAS device upon request by DOST-ASTI.</p> <p>5. Warranty.</p> <p>5.1. Manufacturer's Warranty.</p> <p>5-year limited warranty provides coverage until the end of the warranty period or until the endurance usage of the drive has been reached, whichever comes first.</p> <p>6. Delivery and Payment.</p> <p>6.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>6.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>6.3. Payment Terms: Prescribed government terms.</p>				
5	<p>Uninterruptible Power Supply (UPS) - Rackmount 2U, 750 VA</p> <p>1. Background / Objectives.</p> <p>1.1. Uninterruptible Power Supply (UPS) for mission-critical equipment used in video and live event production.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. General.</p> <p>2.1.1. Main Input Voltage: 230 V.</p> <p>2.1.2. Other Input Voltage: 220 V, 240 V.</p> <p>2.1.3. Main Output Voltage: 230 V.</p> <p>2.1.4. Other Output Voltage: 220 V, 240 V.</p> <p>2.1.5. Rated Power in W: 500 W.</p>	3	unit	49000.00	147,000.00

2.1.6. Rated Power in VA: 750 VA.
 2.1.7. Input Connection Type: IEC 320 C14.
 2.1.8. Output Connection Type: 4 x IEC 320 C13, 2 x IEC Jumpers.
 2.1.9. Battery Type: Lead-Acid Battery.

2.2. Batteries and Runtime.
 2.2.1. Run Time.
 2.2.1.1. Approx. 2 hours 19 mins @ 50 W load.
 2.2.1.2. Approx. 1 hour 5 mins @ 100 W load.
 2.2.1.3. Approx. 16 min @ 250 W load.
 2.2.1.4. Approx. 5 min @ 500 W load.

2.2.2. Battery Recharge Time: 3 hours.
 2.2.3. Battery Charger Power: 56 W rated.

2.3. Input.
 2.3.1. Input Voltage Limits: 151...302 V adjustable, 160...286 V.
 2.3.2. Network Frequency: 50/60 Hz +/- 3 Hz autosensing.

2.4. Output.
 2.4.1. Harmonic Distortion: less than 5%.
 2.4.2. Maximum Configurable Power: 500 Watts / 750 VA.
 2.4.3. Transfer Time: 6 ms typical, 10 ms maximum.
 2.4.4. UPS type: Line Interactive.
 2.4.5. Wave Type: Sine wave.
 2.4.6. Output Frequency: 50/60 Hz +/- 3 Hz sync to mains.

2.5. Communications and Management.
 2.5.1. Control Panel: Multifunction LCD status and control console.
 2.5.2. Communication Port Support: SmartConnect Ethernet port.
 2.5.3. Alarm: Alarm when on battery, distinctive low battery alarm, configurable delays.

2.6. Surge Protection and Filtering.
 2.6.1. Surge Energy Rate: 459 Joules.
 2.6.2. Noise Suppression.
 2.6.2.1. Full time multi-pole noise filtering.
 2.6.2.2. 0.3% IEEE surge let-through.
 2.6.2.3. Zero clamping response time : meets UL 1449.

2.7. Conformance
 2.7.1. Product Certifications: CE, EAC, RCM, TÜV, VDE, UK PSTI.

3. Warranty: 12 months.
 4. Delivery and Payment.
 4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).
 4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.
 4.3. Payment Terms: Prescribed government terms.

6	Multimedia Design Monitor - 27-inch 4K IPS DCI-P3	8	unit	30000.00	240,000.00
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1. Background / Objectives.

1.1. Computer monitors for graphics design and video production projects.

1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.

1.3. Offers of equivalent or better specifications are acceptable.

2. Functional / Technical Specifications.

2.1. Display.

2.1.1. Size: 27 inch.

2.1.2. Resolution: 3840 x 2160.

2.1.3. Brightness: 320 cd/sqm minimum.

2.1.4. Brightness: 400 cd/sqm typical.

2.1.5. Contrast Ratio: 1,000:1 minimum.

2.1.6. Contrast Ratio: 1,200:1 typical.

2.1.7. Panel Type: IPS.

2.1.8. Color Depth (Number of Colors): 1.07B.

2.1.9. Aspect Ratio: 16:9.

2.1.10. Pixel Pitch: 0.1554 mm x 0.1554.

2.1.11. Color Gamut: DCI-P3 95% (CIE1976).

2.1.12. Refresh Rate: 60 Hz maximum.

2.1.13. Response Time: 5 ms.

2.1.14. Viewing Angle (CR \geq 10): 178 degrees (R/L), 178 degrees (U/D).

2.2. Connectivity.

2.2.1. HDMI x 2.

2.2.2. DisplayPort x 1.

2.2.3. DP Version: 1.4.

2.2.4. USB-C x 1.

2.2.5. USB Downstream Port (ver 3.0) x 2.

2.2.6. USB-C (Data Transmission).

2.2.7. USB-C (Maximum Resolution): 3840 x 2160 at 60 Hz.

2.2.8. USB-C (Power Delivery): 90 W.

2.2.9. Headphone Out: 3-pole (sound only).

2.3. Other.

2.3.1. HDR 10.

2.4. Mechanical.

2.4.1. Display Position Adjustments: Tilt, Height, Pivot.

2.4.2. Wall Mountable: 100 mm x 100 mm.

2.5. Sound.

2.5.1. Speaker: 2 x 5 W.

2.6. Power.

2.6.1. Power Consumption (Max.): 185 W.

2.6.2. Power Consumption (Typ.): 44 W.

2.6.3. Power Consumption (Sleep Mode): Less than 0.5 W.

2.6.4. AC Input: 100 - 240 V (50/60 Hz).

2.7. Accessory.

2.7.1. Display Port.

2.7.2. HDMI.

2.7.3. USB-C.

3. Warranty: 12 months.

	<p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>				
7	<p>SSD HDD 2.5 / 3.5 inch Docking Station, SATA - 2 Bay</p> <p>1. Background / Objectives.</p> <p>1.1. Solid State Drive (SSD) and Hard Disk Drive (HDD) docking station for copying and cloning production media and files.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. General.</p> <p>2.1.1. Compatibility (2.5 inch and 3.5 inch).</p> <p>2.1.1.1. Solid State Drive (SSD).</p> <p>2.1.1.2. Hard Disk Drive (HDD).</p> <p>2.1.2. Output Interface: SuperSpeed USB 3.0 5 Gb/s.</p> <p>2.1.3. Clone: 1 to 1 standalone clone.</p> <p>2.1.4. HDD Interface: SATA I, SATA II, SATA III.</p> <p>2.1.5. Power Supply: 12 V 3 A Power Adapter.</p> <p>2.1.6. Data Cable: 1 m USB 3.0.</p> <p>2.1.7. Number of Slots / Bays: 2.</p> <p>2.1.8. Maximum Capacity per Slot: Single 10TB, 20 TB Max.</p> <p>2.1.9. System Support: Windows, Mac OS.</p> <p>3. Warranty: 12 months.</p> <p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>	1	unit	2500.00	2,500.00
8	<p>HDD 3.5 inch, SATA 6 Gb/s, 7200 RPM, 256 MB Cache - 20TB</p> <p>1. Background / Objectives.</p> <p>1.1. Hard Disk Drive (HDD) storage device for archival storage of production media and files.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. General.</p> <p>2.1.1. Storage Capacity: 20 TB.</p> <p>2.1.2. Form Factor: 3.5 inch.</p> <p>2.1.3. Interface: SATA 6 Gb/s.</p> <p>2.1.4. Recording Technology: Conventional Magnetic Recording (CMR).</p> <p>2.1.5. Drive Design: Helium.</p> <p>2.1.6. Workload Rate Limit (WRL): 550.</p> <p>2.1.7. Rotational Vibration (RV) Sensors.</p>	2	unit	37500.00	75,000.00

	<p>2.1.8. Cache: 256 MB.</p> <p>2.2. Reliability / Data Integrity.</p> <p>2.2.1. Mean Time Between Failures (MTBF, hours): 2,500,000 hours.</p> <p>2.2.2. Non-recoverable Read Errors per Bits Read, Max: 1 per 10E15.</p> <p>2.2.3. Power-On Hours (per year): 8,760</p> <p>2.2.4. Sector Size (Bytes per Logical Sector): 512E.</p> <p>2.2.5. Rescue Data Recovery Services (years): 3.</p> <p>2.3. Performance.</p> <p>2.3.1. Spindle Speed (RPM): 7,200 RPM.</p> <p>2.3.2. Interface Access Speed (Gb/s): 6.0, 3.0, 1.5.</p> <p>2.3.3. Max. Sustained Transfer Rate OD (MB/s): 285.</p> <p>2.3.4. Rotational Vibration @ 10-1500 Hz (rad/s): 12.5.</p> <p>2.4. Environmental / Shock.</p> <p>2.4.1. Shock, operating 2 ms (Read/Write) (Gs): 40/40 Gs.</p> <p>2.4.2. Shock, non-operating, 1 ms and 2 ms (Gs): 200.</p> <p>3. Warranty.</p> <p>3.1.1. Limited Warranty (years): 5.</p> <p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>				
9	<p>SSD - External, 20 Gb/s USB 3.2 Gen 2x2, 2000 MB/s, IP54 - 2TB</p> <p>1. Background / Objectives.</p> <p>1.1. Solid State Drive (SSD) storage device with dust/water splash protection for field/on-location storage of production media and files.</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. General.</p> <p>2.1.1. External Solid State Drive (SSD).</p> <p>2.1.2. Storage Capacity: 2 TB.</p> <p>2.1.3. Interface: USB 20 Gb/s 3.2 Gen 2x2.</p> <p>2.1.4. Connectivity: USB-C.</p> <p>2.1.5. Read Speed: 2,000 MB/s.</p> <p>2.1.6. Ingress Protection: IP54.</p> <p>3. Warranty: 12 months.</p> <p>4. Delivery and Payment.</p> <p>4.1. Delivery: Within 60 calendar days from issuance of Notice to Proceed (NTP).</p> <p>4.2. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.</p> <p>4.3. Payment Terms: Prescribed government terms.</p>	2	unit	15000.00	30,000.00

GUIDELINES**A. Content and Format of Quotations**

1. The Quotation/s must include the RFQ Number or the PR Number indicated above
2. Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:
 - a. Computer and electronic equipment and its accessories or peripherals
 - b. Software applications, programs, and digital licenses
 - c. Commercial off-the-shelf electronic devices or components
3. The Quotation/s must indicate the registered business name of the company (or individual), business address and contact number. It must also include the full name and signature of the company's authorized representative.
4. BIR Certificate of Registration for new DOST-ASTI suppliers.

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, 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
 - a. Valid PhilGEPS Registration Number / Organization ID
 - b. Valid Mayor's/Business Permit
2. Upon issuance of Notice of Award (NOA)
 - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
 - b. Income/Business Tax Return (For ABCs above P500,000.00)

For Procurement of Infrastructure

1. Upon submission of quotation
 - a. Valid PhilGEPS Registration Number / Organization ID
 - b. Valid Mayor's/Business Permit
 - c. Valid PCAB License
2. Upon issuance of NOA
 - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
 - b. Income/Business Tax Return (For ABCs above P500,000.00)

*Requirements under Section 53.6 (Scientific, Scholarly or Artistic Work, Exclusive Technology and Media Services) of the revised IRR of RA No. 9184 will not apply to artists such as singer, performer, poet, writer, painter and sculptor who are engaged in business.

**Requirements under Section 53.10 (Lease of Real Property or Venue) of the revised IRR of RA No. 9184, specifically Mayor's/Business Permit, PhilGEPS Registration Number and Income/Business Tax Return will not apply to government agencies as lessors.

***For methods of procurement requiring Mayor's Permit and PhilGEPS Registration Number, valid Certificate of Platinum Membership may be submitted in lieu of the said documents.

C. Terms and Conditions

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
3. Liquidated damages of at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay shall be imposed by the DOST-ASTI pursuant to Section 68 of the revised IRR of RA No. 9184; and
4. The DOST-ASTI reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

