



Contract ID : PCHRD – PB – 2020 – 03  
Contract Name : Procurement of Supply and Delivery of Various IT Equipment  
Contract Location : DOST-PCHRD Office, PCHRD Saliksik Building, Sikap Street,  
DOST Main Compound, Gen. Santos Ave., Bicutan, Taguig City

**SUPPLEMENTAL / BID BULLETIN NO. 1**

September 15, 2020

**Subject : Modification / Amendment of some provisions in the Bidding Documents**

In connection with the project stated above advertised at the PhilGEPS and PCHRD Website on September 06, 2020; this Supplemental / Bid Bulletin No. 1 is issued to modify or amend some provisions in the Bidding Documents and response to queries raised by the suppliers during Pre-Bid Conference. Attached are the updated **Schedule of Requirements and Technical Specifications**:

ORIGINAL PROVISION	AMENDMENT / CHANGE / CLARIFICATION
<b><i>Section I. Invitation to Bid</i></b>  <b><i>Item no. 2:</i></b> <ul style="list-style-type: none"><li>The DOST-PCHRD now invites bids for the Supply and delivery of Various I.T. Equipment. Delivery of the Goods is required within forty-five (45) calendar days. Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.</li></ul>	<b><i>Section I. Invitation to Bid</i></b>  <b><i>Item no. 2:</i></b> <ul style="list-style-type: none"><li>The DOST-PCHRD now invites bids for the Supply and delivery of Various I.T. Equipment. Delivery of the Goods is required within <b>sixty (60) calendar days</b>. Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.</li></ul>
<b><i>Section VI. Schedule of Requirements</i></b>  <b><i>Lot A and B</i></b> <ul style="list-style-type: none"><li>Within forty-five (45) calendar days from receipt of Purchase Order</li></ul>	<b><i>Section VI. Schedule of Requirements</i></b>  <b><i>Lot A and B</i></b> <ul style="list-style-type: none"><li><b>Within sixty (60) calendar days from receipt of Purchase Order</b></li></ul>
<b><i>Section VII. Technical Specifications</i></b>  <b><i>Lot A / Item no. 3</i></b> <ul style="list-style-type: none"><li><b>Two (2) units UPS 11000VA/10000W</b><ul style="list-style-type: none"><li>5U 11000VA (10,000 W) rack mount offering</li><li>Up to 96% energy efficiency in high efficiency mode</li></ul></li></ul>	<b><i>Section VII. Technical Specifications</i></b>  <b><i>Lot A / Item no. 3</i></b> <ul style="list-style-type: none"><li><b>Two (2) units UPS 11000VA/10000W</b><ul style="list-style-type: none"><li><b>GENERAL</b><ul style="list-style-type: none"><li>Form Factor: 6U Rack</li><li>VA/Watts rating: 11000VA/10000W</li></ul></li></ul></li></ul>


<ul style="list-style-type: none"> <li>- Up to 91% efficient in converter mode when poor power conditions require protection against 4 additional line quality irregularities</li> <li>- Seven-language (must include English Language) graphical Liquid Crystal Display (LCD) which provides intuitive, at-the-rack management and monitoring capabilities</li> <li>- Hot-swappable batteries for maximum uptime, availability, and ease of maintenance</li> <li>- ABM three-stage charging technology significantly extends battery service life and optimizes recharge time</li> <li>- Standard intelligent Power Manager Supervisory software to monitor, manage, and gradually shut down the connected load in the event of a power failure</li> <li>- Use of 11000VA Extended Battery Modules (EBM) (69Y1986) for additional support for runtime requirements</li> <li>- Optional Network Management Card (46M4110) for enhanced UPS monitoring and control</li> <li>- Optional Environmental Monitoring Probe (46M4113) for thermal management requirements</li> <li>- Integration with IBM Systems Director Active Energy Manager (AEM) for single pane of glass power and thermal trending analysis and management</li> <li>- With Installation</li> </ul>	<ul style="list-style-type: none"> <li>• Efficiency: Online mode up to 94.5%, High Efficiency up to 98%</li> <li>• Transfer time: Online mode (0 ms, no break); High efficiency mode: 10ms maximum</li> <li>• Energy Star compliant: Yes</li> </ul> <p><b>- ELECTRICAL INPUT</b></p> <ul style="list-style-type: none"> <li>• Input Voltage: 200 - 240 V AC, 1-Phase</li> <li>• Input voltage: 200 - 240V AC</li> <li>• Input frequency: 50/60 Hz</li> <li>• Max input amperage: 50A</li> <li>• Input connector: Hardwired terminal block</li> <li>• Input line cord: Onsite wiring required</li> </ul> <p><b>- ELECTRICAL OUTPUT</b></p> <ul style="list-style-type: none"> <li>• Output voltage settings: 220V AC</li> <li>• Output frequency: 50/60 Hz</li> <li>• Output Power Capacity: 200-208 V AC: 10000 VA/9000 W, 220 V AC: 11000 VA/9900 W, 230-240 V AC: 11000 VA/10000 W</li> <li>• Output Connector: 4x IEC 320-C19 (16 A) (on the MBP)</li> </ul> <p><b>- BATTERIES</b></p> <ul style="list-style-type: none"> <li>• Battery type: Valve Regulated Lead Acid (VRLA): Maintenance-free, sealed, leak-proof</li> <li>• Battery management: ABM technology or temperature-compensated charging method (user selectable), automatic battery test and deep discharge protection, and automatic recognition of external battery units</li> <li>• Battery replacement: Hot-swap standard and extended battery modules</li> <li>• External battery support: Up to 4 (PN 55949BX)</li> </ul>
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	<ul style="list-style-type: none"> <li>- <b>COMMUNICATIONS AND MANAGEMENT</b> <ul style="list-style-type: none"> <li>• Environmental monitoring: Optional with Environmental Monitoring Probe, 46M4113 (connects to the Network Management Card)</li> <li>• Management software: UPS Power Manager and UPS Power Protector</li> <li>• Control panel: Intelligent 5-button graphical LCD</li> <li>• LED indicators: Online, On Battery, Bypass, and Fault</li> <li>• Remote On/Off and Power Off: Remote On/Off and Remote Power Off terminal block connectors</li> </ul> </li> <li>- <b>WITH INSTALLATION</b></li> </ul>
<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 1</i></b></p> <ul style="list-style-type: none"> <li>• <b>Seven (7) units Laptop (A)</b> <ul style="list-style-type: none"> <li>- Intel Core i7</li> <li>- 8GB Memory</li> <li>- 1TB HDD or 256 SSD + 500GB HDD, 2GB</li> <li>- dedicated Video Card</li> <li>- 13 to 14 inches display</li> <li>- OS: Windows 10 Professional</li> <li>- with MS Office Standard 2019</li> </ul> </li> </ul>	<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 1</i></b></p> <ul style="list-style-type: none"> <li>• <b>Seven (7) units Laptop (A)</b> <ul style="list-style-type: none"> <li>- Intel Core i7</li> <li>- 8GB Memory</li> <li>- <b>1TB HDD or 512GB SSD or 256 SSD + 500GB</b></li> <li>- <b>2 gb dedicated video card</b></li> <li>- 13 to 14 inches display</li> <li>- OS: Windows 10 Professional</li> <li>- with MS Office Standard 2019</li> <li>- <b>Weight: not more than 1.5KG</b></li> <li>- <b>With Bag</b></li> </ul> </li> </ul>
<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 2</i></b></p> <ul style="list-style-type: none"> <li>• <b>Eleven (11) units Laptop (B)</b> <ul style="list-style-type: none"> <li>- Intel Core i7</li> <li>- 8GB Memory</li> <li>- 1TB HDD or 256 SSD + 500GB HDD, 2GB</li> <li>- dedicated Video Card</li> <li>- 13 to 14 inches display</li> <li>- OS: Windows 10 Professional</li> </ul> </li> </ul>	<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 2</i></b></p> <ul style="list-style-type: none"> <li>• <b>Eleven (11) units Laptop (B)</b> <ul style="list-style-type: none"> <li>- Intel Core i7</li> <li>- 8GB Memory</li> <li>- <b>1TB HDD or 512GB SSD or 256 SSD + 500GB</b></li> <li>- <b>2 gb dedicated video card</b></li> <li>- 13 to 14 inches display</li> <li>- OS: Windows 10 Professional</li> <li>- <b>Weight: not more than 1.5KG</b></li> <li>- <b>With Bag</b></li> </ul> </li> </ul>

<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 3</i></b></p> <ul style="list-style-type: none"> <li>• <b>One (1) unit Laptop (C)</b> <ul style="list-style-type: none"> <li>- Processor: Intel core i5</li> <li>- RAM: 8GB</li> <li>- Graphics: Intel UHD Graphics</li> <li>- Storage: 256gb SSD</li> <li>- Display: 13.3” IPS FHD</li> <li>- OS: Windows 10 Professional</li> <li>- Microsoft Office 2019</li> <li>- Lightweight- not more than 1.20kg</li> </ul> </li> </ul>	<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 3</i></b></p> <ul style="list-style-type: none"> <li>• <b>One (1) unit Laptop (C)</b> <ul style="list-style-type: none"> <li>- Processor: Intel core i5</li> <li>- RAM: 8GB</li> <li>- Graphics: Intel UHD Graphics</li> <li>- Storage: 256gb SSD</li> <li>- Display: 13.3” IPS FHD</li> <li>- OS: Windows 10 Professional</li> <li>- Microsoft Office 2019</li> <li>- Lightweight- not more than 1.20kg</li> <li>- <b>With Bag</b></li> </ul> </li> </ul>
<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 6</i></b></p> <ul style="list-style-type: none"> <li>• <b>One (1) unit Heavy Duty Paper Shredder</b> <ul style="list-style-type: none"> <li>- 3.9mm Strip Cut - Deskside</li> <li>- Feed width: 220mm</li> <li>- <b>Shred capacity A4 80 gsm:16 sheets</b></li> <li>- Shred capacity A4 80 gsm: 13 sheets</li> <li>- Shred size: 3.9mm</li> <li>- Security level: P-2, T-2, E-2</li> <li>- Operation: Electronics</li> <li>- Shred speed: 6m/min</li> <li>- <b>Waste volume: 140 liters</b></li> <li>- Db (a) when idle: 49 db</li> <li>- Motor: 350 watts</li> <li>- Voltage: 230 V</li> <li>- Dimensions HxWxD: 610 x 430 x 340 mm</li> <li>- Weight: 22kg</li> </ul> </li> </ul>	<p><b><i>Section VII. Technical Specifications</i></b></p> <p><b><i>Lot B / Item no. 6</i></b></p> <ul style="list-style-type: none"> <li>• <b>One (1) unit Heavy Duty Paper Shredder</b> <ul style="list-style-type: none"> <li>- 3.9mm Strip Cut - Deskside</li> <li>- Feed width: 220mm</li> <li>- <b>Shred capacity A4 70 gsm:16 sheets</b></li> <li>- Shred capacity A4 80 gsm: 13 sheets</li> <li>- Shred size: 3.9mm</li> <li>- Security level: P-2, T-2, E-2</li> <li>- Operation: Electronics</li> <li>- Shred speed: 6m/min</li> <li>- <b>Waste volume: 30 liters</b></li> <li>- Db (a) when idle: 49 db</li> <li>- Motor: 350 watts</li> <li>- Voltage: 230 V</li> <li>- <b>Dimensions HxWxD: not more than 610 x 430 x 340 mm</b></li> </ul> </li> </ul>

This Supplemental Bulletin shall form an integral part of the said Bidding Documents.

For guidance and information of all concerned.

  
**ROSELLE L. MARTONITO**  
 Chairperson, Bids and Awards Committee

## ***Schedule of Requirements***

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Lot	Description	Quantity	Unit	Delivered, Weeks/Months
A	1. Rack Server	1	lot	Within sixty (60) calendar days from receipt of Purchase Order
	2. Network Attached Storage	3		
	3. UPS 11000VA/10000W	2		
	4. UPS for NAS	1		
	5. 48-port Switch	3		
	6. Access Point	5		
B	1. Laptop (A)	7	lot	Within sixty (60) calendar days from receipt of Purchase Order
	2. Laptop (B)	11		
	3. Laptop (C)	1		
	4. Office Suite Software	15		
	5. All-in-one Printer	2		
	6. Heavy Duty Paper Shredder	1		

We hereby comply with the above-stated Schedule of Requirements.

Submitted by : \_\_\_\_\_  
(Name of Firm)

Signing Authority : \_\_\_\_\_  
(Printed Name and Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

# Technical Specifications

Lot	Item	Specification	Statement of Compliance
A	1.	<b>One (1) unit Rack Server</b> <ul style="list-style-type: none"> <li>- Height: 1U rack server</li> <li>- Processor: Intel Xeon Bronze 1.9GHz 6-core or higher</li> <li>- Memory: TruDDR4 16Gb</li> <li>- Storage: 3x 300Gb</li> <li>- Network: 2x Ethernet RJ-45 ports</li> <li>- Power Supply: 2x PSU, hot swap</li> <li>- Raid: Raid 1</li> <li>- OS: compatible with CentOS/Red Hat (latest version)</li> </ul>	
	2.	<b>Three (3) units Network Attached Storage</b> <ul style="list-style-type: none"> <li>- CPU: <ul style="list-style-type: none"> <li>• CPU Model - Intel Atom C3538</li> <li>• CPU Architecture - 64-bit</li> <li>• CPU Frequency - Quad Core 2.1 GHz</li> <li>• Hardware Encryption Engine (AES-NI)</li> </ul> </li> <li>- Memory: <ul style="list-style-type: none"> <li>• System Memory - 4 GB DDR4</li> <li>• Memory Module Pre-installed 4 GB (4 GB x 1)</li> <li>• Total Memory Slots - 4</li> <li>• Memory Expandable up to - 64 GB (16 GB x 4)</li> </ul> </li> <li>- Storage: <ul style="list-style-type: none"> <li>• Drive Bays - 12</li> <li>• Maximum Drive Bays with Expansion Unit – 24</li> <li>• Compatible Drive Type - 3.5" SATA HDD; 2.5" SATA HDD; 2.5" SATA SSD</li> </ul> </li> <li>- External Ports <ul style="list-style-type: none"> <li>• RJ-45 1GbE LAN Port - 4 (with Link Aggregation / Failover support)</li> <li>• USB 3.0 Port – 2</li> <li>• Expansion Port – 1</li> </ul> </li> <li>- PCIe <ul style="list-style-type: none"> <li>• PCIe Expansion - 1 x Gen3 x8 slot (black, x4 link)</li> <li>• Add-In-Card Support <ul style="list-style-type: none"> <li>➢ PCIe Network Interface Card</li> <li>➢ M2D18 - Dual M.2 SATA/NVMe SSD adapter card for SSD cache</li> </ul> </li> </ul> </li> <li>- File System: <ul style="list-style-type: none"> <li>• Internal Drives <ul style="list-style-type: none"> <li>➢ Btrfs</li> <li>➢ EXT4</li> </ul> </li> <li>• External Drives <ul style="list-style-type: none"> <li>➢ Btrfs</li> <li>➢ EXT4</li> </ul> </li> </ul> </li> </ul>	

		<ul style="list-style-type: none"> <li>➤ EXT3</li> <li>➤ FAT</li> <li>➤ NTFS</li> <li>➤ HFS+</li> <li>➤ exFAT*</li> </ul> <ul style="list-style-type: none"> <li>- Appearance: <ul style="list-style-type: none"> <li>• Form Factor (RU) - 2U</li> <li>• Rack Installation Support - 4-post 19" rack</li> <li>• Power Frequency - 50/60 Hz, Single Phase</li> <li>• Power Consumption <ul style="list-style-type: none"> <li>➤ 109 W (Access)</li> <li>➤ 52.4 W (HDD Hibernation)</li> </ul> </li> <li>OR <ul style="list-style-type: none"> <li>➤ 119.6 W (Access) (for RP model)</li> <li>➤ 55.9 W (HDD Hibernation) (for RP model)</li> </ul> </li> </ul> </li> <li>- Warranty: 3-year hardware warranty, extendable to 5-year coverage</li> <li>- Environment: RoHS Compliant</li> </ul>	
	3.	<p><b>Two (2) units UPS 11000VA / 10000W</b></p> <ul style="list-style-type: none"> <li>- GENERAL <ul style="list-style-type: none"> <li>• Form Factor: 6U Rack</li> <li>• VA/Watts rating: 11000VA/10000W</li> <li>• Efficiency: Online mode up to 94.5%, High Efficiency up to 98%</li> <li>• Transfer time: Online mode (0 ms, no break); High efficiency mode: 10ms maximum</li> <li>• Energy Star compliant: Yes</li> </ul> </li> <li>- ELECTRICAL INPUT <ul style="list-style-type: none"> <li>• Input Voltage: 200 - 240 V AC, 1-Phase</li> <li>• Input voltage: 200 - 240V AC</li> <li>• Input frequency: 50/60 Hz</li> <li>• Max input amperage: 50A</li> <li>• Input connector: Hardwired terminal block</li> <li>• Input line cord: Onsite wiring required</li> </ul> </li> <li>- ELECTRICAL OUTPUT <ul style="list-style-type: none"> <li>• Output voltage settings: 220V AC</li> <li>• Output frequency: 50/60 Hz</li> <li>• Output Power Capacity: 200-208 V AC: 10000 VA/9000 W, 220 V AC: 11000 VA/9900 W, 230-240 V AC: 11000 VA/10000 W</li> <li>• Output Connector: 4x IEC 320-C19 (16 A) (on the MBP)</li> </ul> </li> <li>- BATTERIES <ul style="list-style-type: none"> <li>• Battery type: Valve Regulated Lead Acid (VRLA): Maintenance-free, sealed, leak-proof</li> <li>• Battery management: ABM technology or temperature-compensated charging method (user</li> </ul> </li> </ul>	

		<p>selectable), automatic battery test and deep discharge protection, and automatic recognition of external battery units</p> <ul style="list-style-type: none"> <li>• Battery replacement: Hot-swap standard and extended battery modules</li> <li>• External battery support: Up to 4 (PN 55949BX)</li> </ul> <p>- COMMUNICATIONS AND MANAGEMENT</p> <ul style="list-style-type: none"> <li>• Environmental monitoring: Optional with Environmental Monitoring Probe, 46M4113 (connects to the Network Management Card)</li> <li>• Management software: UPS Power Manager and UPS Power Protector</li> <li>• Control panel: Intelligent 5-button graphical LCD</li> <li>• LED indicators: Online, On Battery, Bypass, and Fault</li> <li>• Remote On/Off and Power Off: Remote On/Off and Remote Power Off terminal block connectors</li> </ul> <p>- WITH INSTALLATION</p>	
	4.	<p><b>One (1) unit UPS for NAS</b></p> <p>- Output:</p> <ul style="list-style-type: none"> <li>• Output power capacity: 2.4kWatts / 3.0kVA</li> <li>• Max Configurable Power (Watts): 2.4kWatts / 3.0kVA</li> <li>• Nominal Output Voltage: 230V</li> <li>• Output Frequency (sync to mains): 50/60Hz +/- 3 Hz</li> <li>• Other Output Voltages: 220, 240</li> <li>• Load Crest Factor: 3 : 1</li> <li>• Topology: Double Conversion Online</li> <li>• Waveform type: Sine wave</li> <li>• Output Connections: (6) IEC 320 C13 (Battery Backup); (1) IEC 320 C19 (Battery Backup)</li> </ul> <p>- Input</p> <ul style="list-style-type: none"> <li>• Nominal Input Voltage: 230V</li> <li>• Input frequency: 40 - 70 Hz</li> <li>• Input Connections: IEC-320 C20</li> <li>• Input voltage range for main operations: 160 - 280V</li> <li>• Number of Power Cords: 1</li> <li>• Other Input Voltages: 220, 240</li> </ul> <p>- Batteries &amp; Runtime</p> <ul style="list-style-type: none"> <li>• Battery type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof</li> <li>• Typical recharge time: 4hour(s)</li> <li>• Battery Volt-Amp-Hour Capacity: 473</li> <li>• Control panel: Multi-function LCD status and</li> </ul>	



		<p>control console</p> <ul style="list-style-type: none"> <li>- Audible Alarm: Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm</li> <li>- Surge energy rating: 600Joules</li> <li>- Conformance Approvals: CE, IEC 62040-1-1, IEC 62040-1-2</li> <li>- Standard warranty: 2 years repair or replace</li> </ul>	
	5.	<p><b>Three (3) units 48-port Switch</b></p> <ul style="list-style-type: none"> <li>- Number of 10/100/1000BASE-TX ports <ul style="list-style-type: none"> <li>• DGS-1210-08P - 8 ports</li> <li>• DGS-1210-16 - 16 ports</li> <li>• DGS-1210-24 - 24 ports</li> <li>• DGS-1210-24P - 24 ports</li> <li>• DGS-1210-48 - 44 ports</li> </ul> </li> <li>- Number of SFP ports <ul style="list-style-type: none"> <li>• DGS-1210-08P - 2 ports</li> <li>• DGS-1210-16 - 4 ports</li> <li>• DGS-1210-24 - 4 ports</li> <li>• DGS-1210-24P - 4 ports</li> </ul> </li> <li>- PoE Supported Models (Standard(s)/Number of Ports/Maximum Power Budget) <ul style="list-style-type: none"> <li>• DGS-1210-08P (802.3af/8 ports/45W)</li> <li>• DGS-1210-24P (802.3af/802.3at/12 ports/85W)</li> </ul> </li> <li>- Packet Buffer <ul style="list-style-type: none"> <li>• 6 MB per device</li> </ul> </li> <li>- Diagnostic LED Indicators</li> <li>- DGS-1210-16, DGS-1210-24, DGS-1210-48</li> <li>- Power (per device)</li> <li>- Link/Activity/Speed (per 10/100/1000 Mbps port)</li> <li>- Link/Activity/Speed (per SFP port)</li> <li>- Any combination of ports as long as the total port is 48-port or higher</li> </ul>	
	6.	<p><b>Five (5) units Access Point</b></p> <ul style="list-style-type: none"> <li>- High Density Applications Powered by MU MIMO Technology</li> <li>- 802.11ac Wave 2 MU MIMO (Multi User, Multiple Input, Multiple Output) technology allows a Wave 2 AP to communicate with multiple clients at the same time – significantly increasing multi user throughput and overall user experience.</li> <li>- Radio Hardware Acceleration: Independent 2.4 GHz and 5 GHz dedicated hardware offload for maximized multi user throughput and reduced latency</li> <li>- CPU Hardware Acceleration: Dedicated hardware offload for QoS, Guest Control, and Client Management</li> <li>- Optimized for MU MIMO: Antenna System Optimized for 802.11ac Wave 2 MU-MIMO Beamforming</li> <li>- Beamforming: Data is sent and received using multiple antennas to increase throughput and range</li> </ul>	

<b>B</b>	1.	<b>Seven (7) units Laptop (A)</b> <ul style="list-style-type: none"> <li>- Intel Core i7</li> <li>- 8GB Memory</li> <li>- 1TB HDD or 512GB SSD or 256 SSD + 500GB</li> <li>- 2 gb dedicated video card</li> <li>- 13 to 14 inches display</li> <li>- OS: Windows 10 Professional</li> <li>- with MS Office Standard 2019</li> <li>- Weight: not more than 1.5KG</li> <li>- With Bag</li> </ul>	
	2.	<b>Eleven (11) units Laptop (B)</b> <ul style="list-style-type: none"> <li>- Intel Core i7</li> <li>- 8GB Memory</li> <li>- 1TB HDD or 512GB SSD or 256 SSD + 500GB</li> <li>- 2 gb dedicated video card</li> <li>- 13 to 14 inches display</li> <li>- OS: Windows 10 Professional</li> <li>- Weight: not more than 1.5KG</li> <li>- With Bag</li> </ul>	
	3.	<b>One (1) unit Laptop (C)</b> <ul style="list-style-type: none"> <li>- Processor: Intel core i5</li> <li>- RAM: 8GB</li> <li>- Graphics: Intel UHD Graphics</li> <li>- Storage: 256gb SSD</li> <li>- Display: 13.3” IPS FHD</li> <li>- OS: Windows 10 Professional</li> <li>- Microsoft Office 2019</li> <li>- Lightweight- not more than 1.20kg</li> <li>- With Bag</li> </ul>	
	4.	<b>Fifteen (15) lics. Office Suite Software</b> <ul style="list-style-type: none"> <li>- Includes Word, Excel, PowerPoint and Publisher</li> <li>- MS Office Standard 2019 or equivalent</li> </ul>	
	5.	<b>Two (2) units All-in-one Printer</b> <ul style="list-style-type: none"> <li>- Print, Scan, Copy, Fax with ADF</li> <li>- Printing Technology: <ul style="list-style-type: none"> <li>• Print Method: PrecisionCore Printhead</li> <li>• Minimum Ink Droplet Volume: 3.3 pl</li> <li>• Printer Language: ESC / P-R</li> <li>• Print Direction: Bi-directional printing, Uni-directional printing</li> <li>• Nozzle Configuration: 400 nozzles Black, 128 nozzles per colour (Cyan, Magenta, Yellow)</li> <li>• Maximum Resolution: 4800 x 1200 dpi (with Variable-Sized Droplet Technology)</li> <li>• Automatic 2-sided Printing: Yes (up to A4)</li> </ul> </li> </ul>	

		<ul style="list-style-type: none"> <li>- Print Speed: <ul style="list-style-type: none"> <li>• Photo Default - 10 x 15 cm / 4 x 6 ": Approx. 69 sec per photo (Border); Approx. 92 sec per photo (Borderless)</li> <li>• Draft, A4 (Black / Colour): Up to 33 ppm / 20 ppm</li> <li>• ISO 24734, A4 Simplex (Black / Colour): Up to 15 ipm / 8.0 ipm</li> <li>• ISO 24734, A4 Duplex (Black / Colour): Up to 6.5 ipm / 4.5 ipm</li> </ul> </li> <li>- Copy Function: <ul style="list-style-type: none"> <li>• Reduction / Enlargement: 25 - 400%, Auto Fit Function</li> <li>• Maximum Copy Size: A4, Letter</li> <li>• Copy Resolution: 600 x 1200 dpi</li> <li>• Max Copies: 99 copies</li> </ul> </li> <li>- Copy Speed: <ul style="list-style-type: none"> <li>• Copy Quality: Normal / Best quality</li> <li>• ISO 29183, A4 Simplex Flatbed (Black / Colour): Up to 11 ipm / 5.5 ipm</li> </ul> </li> <li>- Scan Function: <ul style="list-style-type: none"> <li>• Scanner Type: Flatbed colour image scanner</li> <li>• Sensor Type: CIS</li> <li>• Optical Resolution: 1200 x 2400 dpi</li> <li>• Maximum Scan Area: 216 x 297 mm (8.5 x 11.7 ")</li> <li>• Scanner Bit Depth (Colour): 48-bit input, 24-bit output</li> <li>• Scanner Bit Depth (Grayscale): 16-bit input, 8-bit output</li> <li>• Scanner Bit Depth (Black &amp; White): 16-bit input, 1-bit output</li> <li>• Scan Speed (Flatbed / ADF (Simplex)): 200dpi, Black: 12 sec / 5.0 ppm; 200dpi Colour: 27 sec / 5.0 ppm</li> </ul> </li> <li>- ADF Specifications: <ul style="list-style-type: none"> <li>• Support Paper Thickness: 64-95 g/m2</li> <li>• Paper Capacity: 30 pages (75 g/m2)</li> </ul> </li> <li>- Paper Handling: <ul style="list-style-type: none"> <li>• Number of Paper Trays: 1 (Paper Cassette)</li> <li>• Standard Paper Input Capacity: 150 sheets, A4 Plain Paper (80 g/m2); 20 sheets, Premium Glossy Photo Paper</li> <li>• Output Capacity: 30 sheets, A4 Plain Paper; 20 sheets, Premium Glossy Photo Paper</li> <li>• Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24 ")</li> <li>• Paper Feed Method: Friction feed</li> <li>• Paper Size: Legal, 8.5 x 13 ", Letter, A4, 195 x 270 mm, B5, A5, A6, 100 x 148 mm, B6, 5 x 7 ", 4 x 6 ", Envelopes #10, DL, C6</li> </ul> </li> </ul>	
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		<ul style="list-style-type: none"> <li>- Supported OS: Windows XP / XP Professional x 64 Edition / Vista / 7 / 8 / 8.1 / 10</li> <li>- Windows Server 2003 / 2008 / 2012 / 2016</li> <li>- Only printing and scanning functions are supported for Windows Server OS</li> <li>- Mac OS X 10.6.8 or later</li> <li>- USB: USB 2.0</li> <li>- Network: Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct</li> <li>- Network Protocol: TCP/IPv4, TCP/IPv6, LPD, IPP, PORT9100, WSD</li> <li>- Network Management Protocols: SNMP, HTTP, DHCP, BOOTP, APIPA, PING, DDNS, mDNS, SLP, WSD, LLTD</li> <li>- Control Panel: LCD Screen - 2.4 " Colour LCD Touch Panel</li> </ul>	
	6.	<b>One (1) unit Heavy duty Paper Shredder</b> <ul style="list-style-type: none"> <li>- 3.9mm Strip Cut - Deskside</li> <li>- Feed width: 220mm</li> <li>- Shred capacity A4 70 gsm: 16 sheets</li> <li>- Shred capacity A4 80 gsm: 13 sheets</li> <li>- Shred size: 3.9mm</li> <li>- Security level: P-2, T-2, E-2</li> <li>- Operation: Electronics</li> <li>- Shred speed: 6m/min</li> <li>- Waste volume: 30 liters</li> <li>- Db (a) when idle: 49 db</li> <li>- Motor: 350 watts</li> <li>- Voltage: 230 V</li> <li>- Dimensions HxWxD: not more than 610 x430 x 340mm</li> </ul>	

We hereby comply with the above-stated Specifications.

Submitted by : \_\_\_\_\_  
(Name of Firm)

Signing Authority : \_\_\_\_\_  
(Printed Name and Signature)

Designation : \_\_\_\_\_  
Date : \_\_\_\_\_