



**TERMS OF REFERENCE**  
**For the**  
**SUPPLY, DELIVERY, AND TESTING OF**  
**VARIOUS ICT EQUIPMENT**

**I. INTRODUCTION**

The DOST through its NRCP-funded project, “*Risk Assessment of Frost Events in Benguet, Philippines*”, provided to DOST-PAGASA the budget to purchase equipment outlay to cater to the needs of the four (4) project personnel to support improved communication and collaboration, allowing them to work together effectively to meet the project goals.

Specifically, one (1) desktop shall be installed at the Farm Weather Services Section (*Climatology and Agrometeorology Division*) to utilize primarily for the operational needs of the project to exclusively access in support of day-to-day operations.

**II. APPROVED BUDGET FOR THE CONTRACT**

The Approved Budget for the Contract (ABC) is distributed as follows:

**Lot A** - One Hundred Thousand Pesos (Php100,000.00)

**Lot B** - Four Hundred Thousand Pesos (Php400,000.00)

The total ABC for the project is **FIVE HUNDRED THOUSAND** pesos (Php500,000.00) only inclusive of all government taxes and other applicable charges.

**III. Bid Validity**

The bid shall remain valid for a period of one hundred twenty (120) days from the date of opening of bids.

**IV. Place and Delivery Period**

The winning bidder shall complete the supply and delivery of the goods / equipment at the **PAGASA Weather and Forecasting Center, CAD Building, Senator Miriam P. Defensor-Santiago Avenue, Barangay Central, Quezon City, Metro Manila, Philippines 1100**, within **30 calendar days** from the date of issuance of the Notice to Proceed.

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## V. Warranty

One (1) year warranty on hardware parts and service, 24x7 technical support, either by email or phone.

## VI. Technical Specifications

The winning bidder shall **supply, deliver, and test** the deliverable equipment with the following minimum specifications or better:

### Lot A. Supply, Delivery and Testing of 1 unit Desktop Computer with Accessories

UNIT	ITEM	QTY	SPECS
Set	<b>Computer desktop w/ Monitor and accessories</b> (high-end)	1	<b>Components:</b> <ul style="list-style-type: none"><li>• Processor: AMD with at least 8 cores, 16 threads, 3.4 GHz base clock, 4.6 GHz max boost clock, 65W TDP or better.</li><li>• Motherboard: At least B550 chipset, AM4 socket, 4 DIMM slots, PCIe 4.0 support, M.2 NVMe slot or better.</li><li>• RAM: At least 16GB (2x8GB) DDR4, 3200MHz, CL16 latency, dual-channel kit or better.</li><li>• Graphics Card: At least 8GB GDDR6 VRAM, 128-bit memory bus, PCIe 4.0, HDMI/DisplayPort output or better.</li><li>• PSU: At least 650W, 80+ Bronze efficiency, non-modular, active Power Factor Correction or better.</li><li>• Case: At least mid-tower, tempered glass side panel, ATX motherboard support, adequate ventilation, and must include additional cooling fans.</li><li>• Storage 1 (HDD): At least 1TB, 7200 RPM, SATA III, 256MB cache or better.</li><li>• Storage 2 (SSD): At least 500GB NVMe M.2, PCIe 3.0 x4, 3500 MB/s read speed or better.</li><li>• UPS: UPS: At least 1200VA, 230V, AVR, universal socket support, surge protection or better.</li></ul> <b>Accessories:</b> <ul style="list-style-type: none"><li>• Keyboard and Mouse Set<ul style="list-style-type: none"><li>• Keyboard: Layout: Full-sized, 104 keys Connectivity: Wireless (2.4GHz)</li></ul></li></ul>

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			<p>Key Switch: Membrane</p> <ul style="list-style-type: none"> <li>• Mouse: Buttons: 3 buttons (left, right, scroll wheel) Connectivity: Wireless (2.4GHz)</li> <li>• Battery: AA Batteries must be included</li> <li>• Compatibility: Windows, macOS, Linux</li> <li>• Webcam: <ul style="list-style-type: none"> <li>• Resolution: 1080p HD (1920x1080) or higher (for clear video quality)</li> <li>• Frame Rate: 30 fps (for smooth video)</li> <li>• Connectivity: USB 2.0 or USB 3.0 (plug-and-play with minimal software installation)</li> <li>• Microphone: Built-in microphone (optional, but must have noise cancellation for clear audio)</li> <li>• Mounting: Clip-on or adjustable stand for easy positioning on monitors or desks</li> </ul> </li> </ul>
			<p>Headset</p> <ul style="list-style-type: none"> <li>• Type: Over-ear, wired</li> <li>• Connectivity: USB Connection</li> <li>• Microphone: Adjustable, noise-canceling</li> <li>• Comfort: Foam ear cushions, adjustable headband</li> </ul> <p>Monitor</p> <ul style="list-style-type: none"> <li>• Size: at least 24 inches</li> <li>• Resolution: 1920x1080</li> <li>• Refresh Rate: 75Hz or better</li> <li>• Connectivity: HDMI</li> </ul> <p>Software</p> <ul style="list-style-type: none"> <li>• Windows 11 Home</li> <li>• Microsoft Office Home and Student 2021</li> </ul>

### Lot B. Supply, Delivery and Testing of 4 units Laptop Computer with Accessories

UNIT	ITEM	QTY	SPECS
Set	<b>Laptop computer (15 inches) w/ accessories</b> (high-end)	3	<ul style="list-style-type: none"> <li>• Windows 11 Home</li> <li>• Processor: Intel Core with at least 16 cores, 22 threads, 3.8 GHz base clock, 5.1 GHz max boost clock, 45W TDP or better.</li> <li>• Graphics: At least 8GB GDDR6 VRAM, 128-bit memory bus, PCIe 4.0, HDMI/DisplayPort output or better.</li> <li>• Display: 15" (2880x1620) OLED 16:9</li> <li>• Memory: At least 16GB DDR5, 5600MHz, dual-channel kit or better.</li> <li>• Storage: At least 512GB M.2 SSD, PCIe NVMe or better.</li> <li>• Wireless connectivity</li> </ul> <p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li>• Wireless rechargeable mouse</li> <li>• Headset; USB Connection, optional for noise-canceling</li> <li>• 1TB external HDD (optional)</li> <li>• 8 in 1 type C hub (USB, HDMI, LAN) (optional)</li> <li>• Bag</li> </ul>
Set	<b>Laptop computer (13 inches) w/ accessories</b> (high-end)	1	<ul style="list-style-type: none"> <li>• Windows 11 Home</li> <li>• Processor: Qualcomm Snapdragon, at least 10 cores, 3.4 GHz base clock, 4.0 GHz boost clock, 42MB cache or better.</li> <li>• Display: 13.8" Touchscreen with 201 PPI resolution</li> <li>• Graphics: Qualcomm Adreno GPU</li> <li>• Memory: 16GB LPDDR5x RAM</li> <li>• Storage: at least 512GB SSD or better</li> <li>• Connectivity: Wi-Fi 7 (802.11be); Quad-Band (2.4, 5 + 5, &amp; 6 GHz) Bluetooth 5.4</li> <li>• Ports: USB type C , USB type A 3.0</li> </ul> <p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li>• Wireless rechargeable mouse</li> </ul>

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			<ul style="list-style-type: none"> <li>• Headset; USB Connection, optional for noise-canceling</li> <li>• 1TB external HDD (optional)</li> <li>• 8 in 1 type C hub (USB, HDMI, LAN) (optional)</li> <li>• Bag</li> </ul>
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*Notes:*

1. Provision of a **(a)** license certificate or equivalent certification; **(b)** a license key; and (c) a manual or instructions to download, install, and activate the Windows Operating System and Microsoft Office 2021.
2. The end-user must be able to test the equipment without activating its software license to isolate hardware issues that might arise within 7 days after the delivery.
3. After testing the equipment for 7 days, the end-user must be able to activate the software licenses for Windows Operating System and Microsoft Office 2021.
4. Upon the completion of the abovementioned, the end-user will process the necessary documents for acceptance of the supply, delivery, and testing of the deliverables.

*Other Requirements:*

1. The Supplier shall have an authorized Certificate of Distributorship.
2. The Supplier shall deliver any globally recognized brand of computer that has been marketed in the Philippines for the last ten (10) years.
3. The Supplier shall have a website or brochure for its parts and components where the part numbers and description can be viewed easily by the End-user.
4. The computers and the indicated accessories shall be brand new and free from any defects.
5. The computers and the indicated accessories shall be a derived model that is readily available in the Philippine market and not a cloned unit or custom built.
6. The Supplier shall ensure the availability of spare parts and components, both for the computer and the indicated accessories, for a period of five (5) years; thus, the equipment to be delivered shall not be an end-of-life (EOL) model at the time of the bidding.
7. The Supplier shall deliver equipment made with sustainable materials, energy-efficient power supply, and with recyclable packaging.