

**Standard Technical Specifications for
Laptop Computers**

Name of Equipment: LAPTOP COMPUTER for Applications Use

Description: For Applications Use

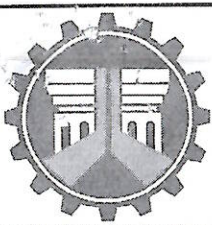
Main Equipment Components		Specification
Laptop	<i>Processor & Chipset</i>	Core-i5 (13th Gen) or its equivalent, minimum of 10-cores
	<i>Internal Memory</i>	16GB DDR4
	<i>Storage</i>	512GB SSD
	<i>Display & Graphics</i>	14" Diagonal Full High-Definition Wide Screen Display with integrated graphics memory
	<i>Audio</i>	Integrated high-definition audio support, integrated speakers and integrated digital microphone.
	<i>Webcam</i>	Integrated widescreen HD
	<i>I/O Ports</i>	3 USB (2 Type-A and 1 Type-C), HDMI/DisplayPort, Audio Port, Ethernet (RJ-45)
	<i>Network Interface</i>	Bluetooth, wireless LAN (auto detecting and auto sensing), Gigabit Ethernet
	<i>Weight</i>	not more than 1.9 kg / 4.2 lbs.
Software	<i>Operating System</i>	Licensed OEM Windows 11 Professional 64-bit with media installer. Must be activated with Microsoft prior to delivery.
	<i>Recovery Media</i>	All drivers and utilities must be stored in any electronic storage media. It must be properly labelled and virus free.
	<i>Office Software</i>	Microsoft Office Standard (latest version) under Cloud Solution Provider (CSP) Agreement. The licenses must be perpetual and transferable. It must be licensed and named after the DPWH and can be added to the Department's existing tenant domain dpwhgovph.onmicrosoft.com and primary domain dpwh.gov.ph. The Supplier must present a certificate as a Certified CSP Direct Partner in the Philippines.
Accessories		Specification
	<i>Mouse</i>	Optical with mouse pad (same brand as the laptop)
	<i>Carry Case</i>	Manufacturer's Standard
	<i>Cable Adapter</i>	Gigabit Ethernet Cable Adapter (for laptop models without Ethernet port)
	<i>Headset</i>	Headset with Microphone (1-meter cable length, with noise cancellation feature, audio jack/USB connections type. Must be compatible with the offered laptop)

Other Requirements:

Brand and Model: Must be globally recognized brand of computers and has been marketed in the Philippines for the last ten (10) years. It must be in the current catalog and not end-of-life. The Manufacturer's certificate is required.

Components: All components must be the same brand as the laptop and factory installed and new. The Supplier is not allowed to change or add any components to the equipment.

Regulatory: ENERGY STAR certified (with Energy Star Stamp). For Laptops that do not carry an Energy Star label, an appropriate means of proof of Energy consumption levels shall be submitted such as a technical dossier of the manufacturer or a test report from a recognized body to demonstrate compliance with this requirement.



Name of Equipment: LAPTOP COMPUTER for Applications Use

Description: For Applications Use

Documentation and Media: All equipment shall be supplied with standard manufacturer documentation, on any electronic storage media and hard copy version where available.

Warranty and Maintenance: The Supplier must provide a 1-year warranty on all parts including mouse, headset with microphone, and associated software and onsite labor from the Date of the Inspection and Acceptance Report (IAR).

In any case that the laptop needs to be pullout for servicing, the Supplier must return the unit within two (2) weeks or a service unit with the same or higher specifications must be issued.

Technical Support: The local technical support shall include telephone and email, 8 hours per day (8:00am - 5:00pm) 5 days a week (Monday - Friday) for problem resolution. Support shall have a response time of next business day.

Additional Notes:

This technical specification shall be issued along with the Certification issued by IMS.

Prepared by:

Checked by:


MARY JANE N. PANTOJA
Chief, Business Innovation Division


RHALF B. CAWALING
Director, Information Management Service

Approved by:


ADOR G. CANLAS, CESO IV
Undersecretary, Technical Services
and Information Management Service

Approved Date: 10 16 24

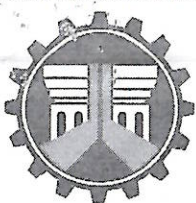


**Standard Technical Specifications for
Printers**

Name of Equipment: MULTIFUNCTION LASER PRINTER (Monochrome, A4)

Description: For document printing, copying and scanning

Main Equipment Components		Specification
General		
<i>Print Technology</i>		Laser (Monochrome)
<i>Print Speed</i>		40 ppm; speed measured using A4 size paper
<i>Print Quality</i>		1200 x 1200 dpi
<i>Copy Speed</i>		40 cpm; speed measured using A4 size paper
<i>Scan Resolution</i>		600 dpi
<i>Scan Features</i>		Multi-sheet scan to single PDF file; Scan to Network Folder; Scan to USB/Memory Device
<i>Scan Type</i>		Flatbed and ADF
<i>Monthly Duty Cycle</i>		75,000 pages
<i>Memory</i>		1 GB
<i>Ink/Toner System</i>		Genuine Toner (high yield); Toner must be available nationwide. A certificate of authenticity is required.
<i>Network Interface</i>		Gigabit Ethernet
<i>IO Ports</i>		USB 2.0 (Type A); Ethernet (RJ-45)
Paper Handling		
<i>Duplex Printing</i>		Automatic two-sided printing
<i>Paper Trays</i>		Two Trays; Standard Input tray (550 sheets), Multi-purpose tray (100 sheets)
<i>Maximum Media Size</i>		Legal (8.5in x 14in)
<i>Media Type</i>		Paper (bond, light, heavy, plain, recycled, rough), envelopes, labels, cardstock, photo, brochures.
Software		
<i>Supported OS</i>		Windows 11, 10 (32-bit and 64-bit)
<i>Drivers</i>		Original CD/DVD copy or in any electronic media storage. Must be compatible with 32-bit and 64-bit operating system.
Accessories		Specification
<i>Ink/Toner Cartridge</i>		Pre-installed toner with additional one (1) high yield genuine toner
<i>Cables and Connectors</i>		All necessary cables and connectors; patch cable (CAT6, factory crimped with RJ-45 connector, 5 meters, preferably color orange)
Other Requirements:		
Brand and Model: Must be globally recognized brand of printers and has been marketed in the Philippines for the last ten (10) years. It must be in the current catalog and not end-of-life. The Manufacturer's certificate is required.		
Regulatory: ENERGY STAR certified (with Energy Star Stamp). For printers that do not carry the Energy Star label, an appropriate means of proof of Energy consumption level shall be submitted such as technical dossiers of the manufacturer or attest report from a recognized body to demonstrate compliance with this requirement.		



Name of Equipment: MULTIFUNCTION LASER PRINTER (Monochrome, A4)

Description: For document printing, copying and scanning

Documentation and Media: The equipment shall be supplied with standard manufacturer documentation, on any electronic storage media and hard copy version where available.

Warranty and Maintenance: The Supplier must provide one (1) year warranty for parts and onsite labor from the date of the Inspection and Acceptance Report (IAR).

Technical Support: The local technical support through telephone and email, 8 hours per day (8:00 am - 5:00 pm), 5 days a week (Monday - Friday) for problem resolution. Support shall have a response time of next business day.

Additional Notes: This technical specification shall be issued along with the Certification issued by IMS.

Prepared by:

Checked by:

MARY JANE M. PANTOJA
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AGA WFC

RHALF B. CAWALING
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Approved by:

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Undersecretary, Technical Services
and Information Management Service

Approved Date: 10 16 24



TECHNICAL SPECIFICATIONS FOR SMART TV

Name of Equipment: SMART TV 86"

Description: For online conferencing & livestreaming at Bidding Room

Main Equipment Components	Specifications
General	<p>Smart TV 86" Imago AIOS Panorama Board Diagonal Screen Size: 86" Panel Technology: LED Resolution: 3840 x 2160 4K Brightness cd/SQ.m: 590 cd/sq.m. Contrast Ratio: 5000:01:00 Display Colour: 10 bits Viewing Angle H/V: 104 degree Response Time: 5ms Screen Protection: 4mm Toughened Glass Surface Protection RGB Signal: VGA/ SVGA/XVGA/SXGA/WUXGA OS: Android 8.0 DDR: 4GB Memory(eMMC): 32GB Input: HDMI 2.0*3, USB3.0*1, USB2.0*2, LAN RJ45 Ethernet 10/100Mbps Output: Audio-Out 3.5mm jack OPS/SDM Slot: 4K Resolution, Intel i5-8265U 8th Generation, 2x4GB RAM, 256GB SSD. TPM built-in. Win 10 pre-installed Touch Surface: Anti-Break Touch Sensor: IR Touch Point: 20 points Built-in Speakers: 2x 10 watts, 1x 15 watts subwoofer Built-in Microphones: 6x built in beamforming microphones coverage up to 8 meters, supported wide band audio & echo cancellation, Omnidirectional Microphone Built-in Camera: 8 Megapixels Wireless display up to 9, Reverse broadcast up to 100 Screen Protection: 4mm Toughened Glass Surface Protection Collaborative Whiteboard Multi-touch Digital Collaborative Whiteboard with Drawing features 2KVA UPS</p>
Stand and Camera	<p>100-4K Smart Auto Tracking Camera Image Sensor: 1 1/2.5" high quality CMOS Sensor Optical Lens: 12x/20x, f=44mm-52.8mm DNR, SNR: 2D & 3D DNR, >55dB Iris: F1.6 - F3.5 Multiple Network Protocol White Balance: Auto/Manual/One Push/300k/3500k/4000k Focus: Auto/Manual/One Push Aperture/Electronic Shutter: Auto/Manual Panoramic Camera Parameter: Image Sensor: 1/3" high quality CMOS Sensor Effective Pixels: 16:9, 8.51" megapixels Digital Zoom: x16 Focus Auto/Manual Key Features: Advance Tracking algorithms with Human detection and Image Processing/ 4k Ultra HD/ Ultrawide dynamic exposure avoid tracking target/ Low Noise and High SNR/ Multiple Network Protocol</p>



Installation and Support:

Installation:

Site survey to assess location, power requirements, and networking needs

Assembly and installation of kiosk hardware and components

Ongoing support:

Technical support for hardware and software issues

Proactive maintenance to ensure that the kiosk remains operational and up-to-date

Repair and replacement of hardware components as needed

Software updates and upgrades to ensure that the kiosk remains secure and functional

Warranty: 3years warranty with on-site visit within 2-3 hrs and remote support

1. For all computer, electronic and I.T. hardware devices and equipment, brand and model must be international brand name with existence of at least five (5) years in the Philippines to ensure it has track record; and the unit model must be of current catalog and not end-of-life within the year of purchase.

2. Suppliers must provide outright replacement if unit is found defective within seven (7) days from date of delivery.

3. Warranty and Technical Qualifications:

A. For all hardware and equipment, the supplier should provide certification(s) of being an accredited dealer of the brand manufacturer being offered;

B. The supplier is required to provide warranty on site for parts and labor for one (1) year and when necessary, an extended warranty support for two (2) more years as may be required. For printing, scanning, visual instruments and copying devices, suppliers must furnish a certification of being an Accredited Service Partner, Corporate Service Support Partner or membership of Original Equipment Manufacturer's partner program in the locality where the unit is to be deployed (especially for Large Format Printers, Signage Printers and Business Inkjets, Hi Intensity Projectors), so as to prevent serviceability of devices being hampered.

C. Bidders must also present other certifications required (for the hardware involved such as the PCs, printers, scanners, network servers and/or its peripherals) such as complying with pre-requisites needed for entering into a contract and transaction with the government such as a wdn license or permit from the authorizing agency for devices with wifi/ network connectivity and DTI service center accreditation.

D. The supplier should provide 8x6 technical support through telephone, sms, email, or any other online platform for problem resolution.

E. Supplier must have a local office and physical store for the checking of product supplied.

F. The supplier shall submit brochures of the product/s.

Prepared by:


MARY ANGELLI N. CORTEZ
Comp. Maint. Tech. II



TECHNICAL SPECIFICATIONS FOR DRONE

Name of Equipment: CAMERA DRONE with RC 2 Controller	
Description: For use at PIO Unit of DPWH Leyte 2 nd DEO	
Main Equipment Components	Specifications
General	Dual primary camera, cost effective and advanced all-around camera drone Medium Tele & Wide-Angle Dual Primary Camera
Key Features	Omnidirectional Obstacle Sensing Ultralong Flight Distance
Flight Time	46 mins
Max Flight Distance	20 km (FCC) 10 km (CE/SRRC/MIC)
Obstacle Sensing	Omnidirectional up/down/left/right/forward/backward
Weight	720 g
Image Sensor Size	Wide-Angle Camera: 1/1.3m Medium Tele Camera: 1/1.3m
Effective Pixels	Wide-Angle Camera: 48 MP Medium Tele Camera: 48 MP
Max Video Resolution	Wide Angle Camera: 4K/60fps HDR, 4K/100fps Medium Tele Camera: 4K/60fps HDR, 4K/100fps
Max Horizontal Speed (at sea level, no wind)	21 m/s (S Mode) 12 m/s (N Mode) 5 m/s (C Mode)
Max Wind Resistance	12 m/s
Additional Requirements:	

Warranty: 3years warranty with on-site visit within 2-3 hrs and remote support

1. For all computer, electronic and I.T. hardware devices and equipment, brand and model must be international brand name with existence of at least five (5) years in the Philippines to ensure it has track record; and the unit model must be of current catalog and not end-of-life within the year of purchase.
2. Suppliers must provide outright replacement if unit is found defective within seven (7) days from date of delivery.
3. Warranty and Technical Qualifications:
 - A. For all hardware and equipment, the supplier should provide certification(s) of being an accredited dealer of the brand manufacturer being offered;
 - B. The supplier is required to provide warranty on site for parts and labor for one (1) year and when necessary, an extended warranty support for two (2) more years as may be required. For printing, scanning, visual instruments and copying devices, suppliers must furnish a certification of being an Accredited Service Partner, Corporate Service Support Partner or membership of Original Equipment Manufacturer's partner program in the locality where the unit is to be deployed (especially for Large Format Printers, Signage Printers and Business Inkjets, Hi Intensity Projectors), so as to prevent serviceability of devices being hampered.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
LEYTE 2ND DISTRICT ENGINEERING OFFICE
Mac Arthur, Leyte



- C. Bidders must also present other certifications required (for the hardware involved such as the PCs, printers, scanners, network servers and/or its peripherals) such as complying with pre-requisites needed for entering into a contract and transaction with the government such as a wdn license or permit from the authorizing agency for devices with wifi/ network connectivity and DTI service center accreditation.
- D. The supplier should provide 8x6 technical support through telephone, sms, email, or any other online platform for problem resolution.
- E. Supplier must have a local office and physical store for the checking of product supplied.
- F. The supplier shall submit brochures of the product/s.

Prepared by:


IRENE F. ORBON
Admin. Aide VI

