





Department of Public Works and Highways
CENTRAL OFFICE

Doc. Code:

QMS-11.1.1-045 Rev00

**Standard Technical Specifications for
Uninterruptible Power Supply**

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Name of Equipment: UPS (650VA) for Workstation

Description: Continuous power supply and data loss prevention

<i>Main Equipment Components</i>	<i>Specification</i>
<i>Power Ratings</i>	650VA/390W 230V - Input/Output Voltage 5 minutes back-up power at half load 8 hours recharge time
<i>IO Ports</i>	USB, RJ45
<i>Outlets</i>	2 power output/connectors
<i>Features</i>	Built-in Automatic Voltage Regulator (AVR), Automatic Self-Test (built-in), Alarms (Online, on battery, replacement battery, and overload)
Software <i>Management Software</i>	Built-in or with media installer monitoring tool and/or diagnostic software accessible via desktop application and/or web browser.

<i>Accessories</i>	<i>Specification</i>
<i>Cables and Connectors</i>	All necessary cables and connectors.

Other Requirements:

Brand and Model: Must be an International Brand Name with an existence of at least five (5) years in the Philippines. The unit model must be in the current catalog and not end-of-life. A manufacturer's certificate is required.

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 a one (1) year warranty for parts and on-site labor from the date of the Inspection and Acceptance Report.

Technical Support: The local technical support shall include 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: N/A

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Name of Equipment: LAPTOP COMPUTER for Specialized Software Applications Use

Description: For Specialized Software Applications Use

Main Equipment Components		Specification
Laptop	<i>Processor & Chipset</i>	Core-i7 (12th Gen), 14-cores and 64-bit or its equivalent
	<i>Internal Memory</i>	32 GB DDR5
	<i>Storage</i>	1 TB SSD
	<i>Display & Graphics</i>	15.6"-16" Diagonal Full High-Definition Wide Screen Display; 6GB GDDR6 dedicated 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, Headphone/Microphone Jack
	<i>Network Interface</i>	Bluetooth, and wireless LAN (auto detecting and auto sensing)
	<i>Weight</i>	not more than 2.5 kg / 5.5 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 an International Brand Name with existence of at least ten (10) years in the Philippines. It must be in the current catalog and not end-of life. A 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.



Department of Public Works and Highways
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**Standard Technical Specifications for
Laptop Computers**

Doc. Code: QMS-11.1.1-043 Rev00

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Name of Equipment: LAPTOP COMPUTER for Specialized Software Applications Use

Description: For Specialized Software 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: N/A

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**Standard Technical Specifications for
Desktop Computers**

Name of Equipment: DESKTOP COMPUTER (Specialized Software Application Use)

Description: For Specialized Software Application Use

Main Equipment Components		Specification
Computer	<i>Processor & Chipset</i>	Core-i7 (12th Gen), 8-cores and 64-bit or its equivalent
	<i>Internal Memory</i>	32GB DDR4
	<i>Storage</i>	1TB 7200RPM HDD + 512GB SSD
	<i>Display & Graphics</i>	23-inch to 24-inch Diagonal Full High-Definition Wide Screen or Wide Viewing Angle LED Display (same brand as CPU); 6 GB GDDR6 dedicated graphics memory
	<i>Audio</i>	Integrated Sound Card with internal/external speaker
	<i>Expansion Slot</i>	4 slots on board, at least 1 PCI Express slot
	<i>I/O Ports</i>	6 USB (2 front, 4 rear at least 1 Type-C), VGA, Audio, HDMI/Display Port, Ethernet (RJ-45)
	<i>Network Interface</i>	Integrated Gigabit Ethernet
	<i>Casing</i>	Two (2) external drive bays
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 labeled 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>Keyboard</i>	Manufacturer's Standard (same brand as the computer)
	<i>Mouse</i>	Optical with a mouse pad (same brand as the computer)
	<i>Webcam</i>	2MP FHD
	<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 desktop)
	<i>Power Supply</i>	Manufacturer's Standard
<i>Cables and Connectors</i>		All necessary cables and connectors; patch cord (CAT6, factory crimped with RJ-45 connector, 5 meters, preferably color orange).

Other Requirements:

Brand and Model: Must be an International Brand Name with existence of at least ten (10) years in the Philippines. It must be in the current catalog and not end-of-life. A manufacturer's certificate is required.

Components: All Components must be the same brand as the computer (except for the webcam, and headset) and manufacturer installed. The supplier is not allowed to change or add any components to the equipment.



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**Standard Technical Specifications for
Desktop Computers**

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Name of Equipment: DESKTOP COMPUTER (Specialized Software Application Use)

Description: For Specialized Software Application Use

Regulatory: ENERGY STAR certified (with Energy Star Stamp). For Desktop Computers 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.

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).

Technical Support: The local technical support shall include 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 the next business day.

Additional Notes:

The UPS (650VA) shall be issued in bundle with the Desktop Computer for Specialized Software Application Use tech specs.

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**Standard Technical Specifications for
ICT Equipment**

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Name of Equipment: SMARTPHONE

Description: Project Evaluation and other geo-tagging related initiatives of the Department

<i>Main Equipment Components</i>	<i>Specification</i>
<i>Operating System</i>	Android OS (latest version)
<i>Processor</i>	Octa Core
<i>Memory</i>	6GB RAM
<i>Internal Storage</i>	128GB
<i>Display</i>	LCD Multi-touch Screen, 6-inch, Corning Gorilla Glass, AMOLED/OLED, 120Hz
<i>Camera</i>	48 MP Main, 12 MP Front, Geo-tagging Feature
<i>Connectivity</i>	2G/3G/4G/5G Network, Wi-Fi, GPS, Bluetooth
<i>Sensors</i>	Gyroscope, Compass/Magnetometer, Proximity, Accelerometer
<i>Interface</i>	Charger Port, Nano SIM Card Slot
<i>Accessories</i>	<i>Specification</i>
<i>Cables and Connectors</i>	Charging / Data cable and Power Adapter (same brand as smartphone)

Other Requirements:

Brand and Model: Must be an International Brand Name with existence of at least ten (10) years in the Philippines. Unit model must be in current catalog and not end-of-life. A manufacturer's certificate is required.

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: 1 week unit replacement and 1 year on service.

Additional Notes: This technical specification shall be issued for GIS /geo tagging purposes only.

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