



Bids and Awards Committee

Republic of the Philippines
Professional Regulation Commission
P. Paredes St., Sampaloc, Metro Manila
Tel/Fax: 310-0037



Section VII. Technical Specifications

Lot 1: Supply and Delivery of Various Desktop Computers (ITB No. 017-045)

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Items	Specifications:
a. Desktop Computer (30 Units)	
CPU	Intel Core i7 up to 4.00GHz 8M Cache
OS	Microsoft Windows 10
Memory	12GB RAM
Storage	1TB 7,200RPM Hard Drive
Graphics	Intel HD Graphics
Optical Drive	DVDRW Drive
Network	10/100/1000 Network 802.11ac Wireless+Bluetooth 4.0
Monitor	18.5" LED Widescreen
Bundled:	600VA UPS / USB Optical Mouse / USB Optical Keyboard
Warranty:	3 years on parts and labor
b. Desktop Computer (40 Units)	
CPU	Intel® Core™ i3-7320 Processor
OS	Windows 10
Memory	8GB DDR4 (2,133MHz)
Storage	1TB 7,200RPM Hard Drive
Graphics	Intel HD Graphics
Network	10/100/1000 Network 802.11ac Wireless+Bluetooth 4.0
Monitor	23" LED Widescreen
Bundled:	600VA UPS / USB Optical Mouse / USB Optical Keyboard
Warranty:	3 years on parts and labor
c. Desktop Computer (200 Units)	
CPU:	Intel® Core™ i3-7320 Processor
OS:	Windows 10
Graphics:	Intel HD Graphics
Memory	8GB DDR4 (2,133MHz)
Storage:	1TB HDD (7,200 rpm)
Optical drive:	8x DVD-RW drive
Ports:	Manufacturer's Standard
Connectivity:	802.11ac Wi-Fi; Bluetooth 4.2
Monitor:	18.5" LED Widescreen
Bundled:	600VA UPS / USB Optical Mouse / USB Optical Keyboard
Warranty:	3 years on parts and labor




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Lot 2: Supply and Delivery of Fifteen Units Laptops (ITB No. 017-046)

Items	Specifications:
a. LAPTOP (15 Units)	
Processor:	Intel Core i7-8700 Processor 12M Cache, up to 4.60GHz
Memory	8GB RAM
Hard disk Drive	1TB 5200RPM SATA Hard Drive
Optical Drive	DVD Writer (writes to DVD/CD)
OS	Windows 8.1/Windows 10
Communications:	Intel® Wireless-AC WLAN + Bluetooth
	TrueVision HD Webcam with Integrated Dual Digital Microphone
Display:	13.3 inch diagonal QHD + WLED-backlit IPS Display (3200x1800)
Audio:	DTS Studio Sound with dual speakers
Keyboard:	Full size island-style keyboard with numeric keypad
Ports:	Manufacturer's Standard
Power Supply:	3-cell Battery
Bundled:	USB Optical Mouse & Travel Case
Warranty:	3 years on parts and labor

Lot 3: Supply and Delivery of One Unit Server for PRC CO Archives & Records Division (ITB No. 017-047)

Item	Specifications
1 Unit SERVER (for Central Office - Records)	
Form factor/height	2U Rack
Processor	2 pcs Intel Xeon E5-2600 v4 series
Memory	128 GB RAM (UDIMM/RDIMM/LRDIMM/HyperCloud DIMM)
Storage	8 TB (2.5-inch model) SAS/SATA
Media bays	DVDWR
RAID support	Integrated 6 Gbps, hardware RAID-0, -1, -10
Power supply (max)	750 W AC
Hot-swap components	Power supplies, fan modules and hard disk drives
Network interface	4 x 1 GbE (std.), 2 x 10 GbE embedded
	Adapter (slotless opt.)/ Trusted Platform Module
Expansion slots	4-6 PCIe 3.0 ports, optional 4 PCI-X or 2 double-width PCIe (for GPU)
USB ports \ VGA ports	2 front/4 back/2 internal \ 1 front/1 back
Energy-efficiency	80 PLUS® Platinum and ENERGY STAR® (model dependent) Compliance
Operating	Microsoft Windows Server 2012



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Lot 4: Supply and Delivery of Two Units Server for PRC CO Rating Division (ITB No. 017-048)

2 Units SERVER (for Rating Division)	
Form factor/height	2U Rack
Processor	2 x Intel®Xeon®processors E5-2600 v4
Memory	64 GB RAM
Storage	16 TB (2.5-inch model) SAS/SATA
Media bays	DVDWR
RAID support	Integrated 6 Gbps, hardware RAID-0, -1, -10
Power supply (max)	750 W AC Fully Redundant
Hot-swap components	Power supplies, fan modules and hard disk drives
Network interface	4 x 1 GbE (std.), 2 x 10 GbE embedded adapter (slotless opt.)/ Trusted Platform Module
Expansion slots	4-6 PCIe 3.0 ports, optional 4 PCI-X or 2 double-width PCIe (for GPU)
USB ports / VGA ports	2 front/4 back (2 internal) 1 front/1 back
Energy-efficiency	80 PLUS® Platinum and ENERGY STAR® (model dependent) Compliance
Operating System	Microsoft Windows Server 2012



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Lot 5: Supply, Delivery and Installation of Twelve Units Server with Server Rack Cabinet for PRC Regional Offices (ITB No. 017-049)

12 Units SERVER (for Regional Offices)	
Form factor/height	2U Rack
Processor	1Intel Xeon E5-2600 v2 series
Memory	(UDIMM/RDIMM/LRDIMM/HyperCloud DIMM)
Maximum internal storage	8 TB (2.5-inch model) SAS/SATA
Optical Drive	DVDWR
RAID support	Integrated 6 Gbps, hardware RAID-0, -1, -10
Power supply (max)	750 W AC
Hot-swap components	Power supplies, fan modules and hard disk drives
Network interface	4 x 1 GbE (std.)
Expansion slots	4-6 PCIe 3.0 ports, optional 4 PCI-X or 2 double-width PCIe (for GPU)
USB ports \ VGA ports	2 front/4 back \ 2 internal\ 1 front/1 back
Energy-efficiency	80 PLUS® Platinum and ENERGY STAR®
	(model dependent) Compliance
Operating	Microsoft Windows Server 2012

Item Specifications
SERVER RACK CABINET (12 Units)
22U
Color: Black
Weight Capacity: 1320lbs (600Kgs)
Internal Dimension : 40" x 39" x 19" (H x D x W)
External Dimension : 42" x 42" x 24" (H x D x W)
Maximum front to rear depth (post to post depth) : 34"



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Lot 6: Supply and Delivery of One (1) Unit Network Attached Storage (ITB No. 017-050)

Item	Specifications
Network Attached Storage (1 Unit)	
Form Factor	2U
Capacity	72 TB
Drives Supported	6 TB hot-swap 3.5in LFF SAS 12Gb/s NL 7200 rpm
Control Enclosures	LFF Control Enclosure
Expansion Enclosure	LFF Expansion Enclosure
Single or Dual Controller	Dual
Connectivity (optional)	8 Gb Fibre Channel
Number of Processor	Two
Cache (per system)	16GB
User Interface	Web-based GUI
RAID Levels	RAID 0, 1, 5, 6, 10, distributed
Fans and power supplies	Fully redundant, hot-swappable
Rack Support	Standard 19-inch
Advanced functions included with each system	Embedded GUI Virtualization of Internal Storage, Thin provisioning, One-way data migration
Additional Available Advanced Functions	Easy Tier, FlashCopy, Remote mirroring
Warranty	3-year limited warranty with optional upgrades available



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Lot 7: Supply and Delivery of Twenty-Seven (27) Units UPS for Server (ITB No. 017-051)

Item	Specifications
UPS FOR SERVER	
Form factor	2U Rackmount
OUTPUT	
Output power capacity	2.7 KWatts / 3.0 kVA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 220 - 230 or 240 nominal output voltage
Output Frequency (sync to mains)	47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal
Other Output Voltages	220, 240
Topology	Line Interactive
Waveform type	Sine wave
Output Connections	(3) IEC Jumpers (Battery Backup)
	(1) IEC 320 C19 (Battery Backup)
	(8) IEC 320 C13 (Battery Backup)
INPUT	
Nominal Input Voltage	230V
Input frequency	50/60 Hz +/- 3 Hz (auto sensing)
Input voltage range for main operations	160 - 286V
Input voltage adjustable range for mains operation	151 - 302V
Other Input Voltages	220, 240

Lot 8: Supply and Delivery of Thirty-Five (35) Units Projector (ITB No. 017-052)

Item	Specifications
PROJECTOR (35 Units)	
Resolution — Native	SVGA (800 x 600)
Resolution — Maximum	WUXGA (1920 x 1200)
Display Technology	DLP
Speakers	Mono 2W x 1
Lamp Brightness	3,500 lumens
Lamp Brightness — Eco Mode	3,200 lumens
Lamp Life — Bright Mode	7,000 hours
Lamp Life — Eco Mode	5,000 hours
Contrast Ratio	15,000:1
Aspect Ratio	0.16875
Projection Offset	15



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Keystone Correction — Vertical	± 40°
Keystone Correction — Horizontal	± 40°
Audible Noise	< 32 dBA at 0°F / -17.8°C
Audible Noise — Eco Mode	< 30 dBA at 0°F / -17.8°C
Connections	HDMI 1.4, VGA x 2, USB-A (for USB thumb drive or wireless network adapter), USB Mini-B (for display over USB & internal memory file mgmt), Composite Video, S-Video, 3.5 mm stereo in x 2, RS232, USB-B (control & firmware), VGA monitor out, 3.5mm audio out

1. Compliance with the statements must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate.
2. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection.
3. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1 (a) (ii) and/or GCC Clause 2.1 (a) (ii).

**ACKNOWLEDGMENT AND COMPLIANCE
WITH THE TERMS OF REFERENCE FOR THE
PROCUREMENT OF VARIOUS IT PROJECTS - REBID
(INSERT LOT NUMBER & TITLE)**

SIGNATURE OVER PRINTED NAME
OF AUTHORIZED REPRESENTATIVE,
DESIGNATION AND PRINTED NAME OF COMPANY