



**PROJECT: SUPPLY AND DELIVERY OF THE VARIOUS INFORMATION TECHNOLOGY EQUIPMENT**

**Resolution of the Technical Working Group (TWG) recommending the approval/adoption by the Bids and Awards Committee (BAC) of the Specifications on the procurement of various Information Technology equipment.**

**TWG RESOLUTION NO. 01**  
Series of 2017

**WHEREAS**, based on the FY 2017 Approved Annual Procurement Plan (APP), here is the list of the various Information Technology equipment for procurement:

1. 48 units Desktop Computers;
2. 14 units Laptop Computers;
3. 8 units Wireless Routers; and
4. 5 units of Servers, 1 unit UPS and 1 unit Switch.

**WHEREAS**, on February 10, 2017, a Technical Working Group (TWG) was created to assist the Bids and Awards Committee (BAC) in the technical evaluation of the bids for the subject procurement to ensure that the same properly reflects the requirements of HUDCC and that these shall conform to the standards set forth under Republic Act No. 9184 and its revised Implementing Rules and Regulations (IRR) and the Philippine Bidding Documents prescribed by the Government Procurement Policy Board (GPPB);

**WHEREAS**, on February 13, 2017, the TWG members held a meeting to finalize the specifications for each Information technology equipment;

**NOW, THEREFORE**, we, the members of the TWG for the procurement of various Information Technology, do hereby **RESOLVE**, as it is hereby **RESOLVED**, to submit to the BAC for its approval and adoption the attached **Specifications** for the **SUPPLY AND DELIVERY OF THE ABOVE-MENTIONED INFORMATION TECHNOLOGY EQUIPMENT**.

**ADOPTED**, this 13<sup>th</sup> day of February 2017 at the HUDCC Conference Room B,  
9<sup>th</sup> Floor, BDO Plaza, 8737 Paseo de Roxas, Makati City.

**TECHNICAL WORKING GROUP**

  
**ARISTON ALCANTARA**  
Chairman

**MEMBERS:**

  
**ALVID REYES**

  
**EMMY MOLO**

  
**JERICSON YAYA**

  
**JAN MICHAEL TUMALIUAN**

# Technical Specifications

## 48 Units - DESKTOP COMPUTER

Processor	:	(6M Cache, 2.7 GHz up to 3.30 GHz)
Operating System	:	Windows 10
Dimensions	:	15.70" x 12.12" x 4.13"
Graphics	:	2GB (dedicated)
Memory	:	8GB DDR3L
Hard Disk Drive	:	1TB HDD
Connectivity	:	WiFi 802.11 b/g/n, Ethernet + Bluetooth
Sound	:	5.1 channel surround sound support
Optical Drive	:	DVD R/W
Accessories	:	Wired Keyboard, AVR, Headset, VGA Splitter, Mousepad and Mouse
Connectors	:	Up to 2 x USB 3.0, 4 x USB 2.0, 7-in-1 card reader, LAN, VGA-out, Audio in/out
Bundled Software	:	MS Office 2013 or 2016, PDF
Monitor	:	21" LED
Warranty	:	3 years
Budget	:	35,000.00 (inclusive of TAX)

## 14 Units - LAPTOP

Processor	:	2 cores or higher, 4 threads (3M Cache, 2.00 GHz or higher)
Operating System	:	Windows 10
Graphics	:	Integrated HD Graphics
Webcam	:	0.3 MP or higher Camera with Microphone
Memory	:	2GB DDR3L or higher
Storage	:	500GB HDD or Higher
Battery	:	4 cells or higher
Display	:	Up to 14" HD (1366 x 768)
Weight	:	1kg up to 1.5kg
WLAN	:	WiFi 802.11 b/g/n
LAN	:	10/100/1000M Gigabit Ethernet
Bluetooth®	:	Bluetooth® 4.0 Combo with WiFi Card or higher
Ports	:	3 x USB Port, 3.5 mm Combo Audio Jack, 1 x VGA, 1 x HDMI™, 1 x RJ45 Gigabit LAN
Bundled Software	:	MS Office 2013 or 2016, PDF
Accessories	:	Laptop Bag, Headset, VGA Cable, external DVD R/W, Mousepad and Mouse
Warranty	:	3 years
Budget	:	28,000.00 (inclusive of TAX)

## 2 Units - Smart-UPS 2200VA 230V

### Output

Output power capacity	:	1.98 KWatts / 2.2 kVA
Max Configurable Power (Watts)	:	1.98 KWatts / 2.2 kVA
Nominal Output Voltage	:	230V
Output Voltage Note	:	Configurable for 220 : 230 or 240 nominal output voltage
Output Frequency (sync to mains)	:	50/60Hz +/- 3 Hz
Other Output Voltages	:	220, 240
Output Connections	:	(8) IEC 320 C13 (Battery Backup) (3) IEC Jumpers (Battery Backup) (1) IEC 320 C19 (Battery Backup)
Transfer Time	:	4ms typical : 8ms maximum

### Input

Nominal Input Voltage	:	230V
Input frequency	:	50/60 Hz +/- 3 Hz (auto sensing)
Cord Length	:	2meters
Input voltage range for main operations	:	160 - 286V
Input voltage adjustable range for mains operation	:	151 - 302V
Number of Power Cords	:	1
Other Input Voltages	:	220, 240

### Batteries & Runtime

Battery type	:	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leak proof
Typical recharge time	:	3 hour(s)
Expected Battery Life (years)	:	3 - 5
Warranty	:	3 years repair or replace 2 years battery
Budget	:	85,000.00 (inclusive of TAX)

## 5 Units - SERVER RACK TYPE

Processor	:	2.2 GHz 22 core 55M Cache
Operating System	:	Microsoft Windows Server® 2012 R2 (Volume for 5 units) w/ MS SQL 2012 R2
Memory	:	64GB DDR4 up 2400MT/s
Storage	:	4 x 16 TB SAS HDD (15K) 6Gbps
Drive Bays	:	Up to 16 x 2.5"
RAID Controllers	:	External HBAs (non-RAID): 12 Gbps SAS HBA
Slots	:	7 PCIe
Communications	:	Quad-port 10 GbE Base-T
Power	:	Platinum 1600W AC, auto-ranging
Rack Support	:	Yes
Chassis	:	2U rack server
Embedded Hypervisor	:	Microsoft Windows Server with Hyper-V VMware vSphere ESXi
Warranty	:	3 years
Budget	:	250,000.00 (inclusive of TAX)

## 1 Unit - 48 PORTS SWITCH

Ports	:	(48) Gigabit RJ45 Ports (2) SFP+ Ports (2) SFP Ports (1) Serial Console Port
Non-Blocking Throughput	:	70 Gbps
Switching Capacity	:	140 Gbps
Forwarding Rate	:	104.16 Mpps
Maximum Power Consumption	:	56 W
Type	:	Rack- or Wall-Mountable
Power Supply Unit (PSU)	:	Redundant PSU, Used as a Hot Spare Internal PSU, 56 W External PSU (Minimum Power: 56W, 25 to 16V) with 2.5 mm DC Power Inline Connector
Features	:	Advanced Layer-2 switching features and protocols Provides layer-3 routing capabilities
Warranty	:	3 years repair or replace
Budget	:	250,000.00 (inclusive of TAX)

## 8 Units - WIRELESS ROUTER

Wireless Type	:	802.11 ac/n/g/a/b;
Wireless Speed	:	1300 Mbps Up to 3200 Mbps;
Wireless Frequency	:	Tri-band (2.4 & Dual 5 GHz);
Wired Connectivity	:	4x LAN, 1x WAN gigabit Ethernet ports;
USB Port(s)	:	1x USB 3.0, 1x USB 2.0
Warranty	:	3 years
Budget	:	9,000.00 (inclusive of TAX)