TERMS OF REFERENCE AND CONDITIONS

Project/Title	**SUPPLY AND DELIVERY OF ICT EQUIPMENT**
Approved Budget for the Contract	**Seven Million Three Hundred Seven Thousand Pesos (P 7,307,000.00)**
Fund Source	**GAA 2020**
Place of delivery	**PHILIPPINE CARABAO CENTER** National Headquarters and Gene Pool Science City of Munoz Nueva Ecija
Delivery Period	**Thirty (30) to Sixty (60) calendar days upon issuance of Notice to Proceed**
Definition of Similar contract	**Similar contract refers to project/s that involves supply and delivery of ICT Equipment and related supplies.**
Minimum Requirements for Bidders	1. It is understood that all items to be offered must be brand new and complying with the specifications called for. 2. The bidder must have completed a single contract within the last five (5) years similar to the project equivalent to at least fifty percent (50%) of the ABC amounting to **(P 3,653,500.00) OR** Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least fifty percent (50%) of the ABC and the largest of these similar contracts must be at least half of the percentage of ABC required above amounting to **(P 1,826,750.00).**

Item No.	Qty	Unit	Description	ABC (per unit)	Total Approved Budget for the Contract
1	1	Unit	Server	P 2,400,000.00	P 2,400,000.00
2	1	Lot	Computers with bundled OS software 30 units Desktop 20 units Laptop	4,349,400.00	4,349,400.00
3	1	Unit	Printer	20,000.00	20,000.00
4	16	Unit	Managed Switch	33,600.00	537,600.00
			TOTAL		**P 7,307,000.00**

TECHNICAL SPECIFICATIONS

1 UNIT SERVER
Processor: 4 x Gold 6230 20C/40T 2.1Ghz 27.5M 10.4GT
Quad Socket P (LGA 3647)
Chipset: Intel® C621
Memory: 32 x 32GB DDR4 2666 ECC Registered; 48 DIMM slots
Expansion Slots: 6 x PCI-E 3.0 x16, 5 x PCI-E 3.0 x8
Onboard LAN: 4 x GbE LAN ports via AOC-2UR66-i4G
Onboard VGA: ASPEED AST2500 BMC
Internal Storage Controller: Broadcom 3108 SAS3 (12Gbps) controller
                    : 2GB 1866MHz DDR3 on-card cache with CacheVault for Broadcom 3108 with SuperCap
                    : HW RAID 0, 1, 5, 6, 10, 50, 60
External Storage Controller: MegaRAID SAS 9380-8e (12Gbps) external controller
                       : 1GB 1866MHz DDRIII SDRAM
                       : 2 Mini-SAS HD SFF8644
Storage: 2 x 400GB SAS SSD 2.5"
Drive Bays: 8 x 2.5" SAS/SATA drives bays (up to 24 x 2.5" via additional SAS/SATA controller card)
           : Optional 20 SAS3 ports via AOC + 4 NVMe ports via AOC
Power Supply: 1600W Redundant Power Supplies Titanium Level (96%)
Cooling System: 4 x 8cm heavy duty fans
Form Factor: 2U Rackmount
Others: Railkit, USB Keyboard and Mouse
O.S: WinSvr STDCore 2019 OLP 16Lic NL Gov CoreLic
Free Installed Security (FeaTures:

Antivirus, Email protection,
IDS/IPS Protection, Firewall Protection, Asset Management,
Web Security and Filtering,
Advanced Device Control,
Application Control, File Activity Monitor,
Patch Management,
DATA Loss Prevention Management and Control)
Centralize Administration
Roaming Platform
Group Policy Management

CSE-216BE1C-JBOD
Form Factor: 2U Storage JBOD Chassis with capacity 24 x 2.5" hot-swappable HDDs bays
Backplane: Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput
System Monitoring: 1 x IPMI port for Remote System Power on/off and system monitoring
Fans: 3 x 80 x 38mm hot-swap cooling fan(s)
Storage: 22 x 1TB SAS 7200 RPM 2.5" HDD
Power Supply: 740W Redundant Platinum Power Supply W/PMbus

<u>30 UNITS DESKTOP COMPUTER</u>
Intel® Core i7-9700 (8 Cores/12MB/8T/3.0GHz to 4.8GHz/65W); supports Windows 10/Linux
No Media Card Reader
Document for MUI (English, Khemer, Bahasa Indonesia, Arabic, Spanish)
Quick Setup Guide 5070 Tower
Intel(R) Core(TM) i7 Processor Label
16GB 1X16GB DDR4 2666MHz UDIMM Non-ECC
No Optane
M.2 256GB PCIe NVMe Class 35 Solid State Drive
Additional 2.5 inch 1TB 7200rpm Hard Disk Drive
No Optical Disk Drive
System Power Cord (Philippine/TH/US)
Chassis Intrusion Switch Tower
Regulatory Label for OptiPlex 5070 MT, APCC (EPA)
AMD Radeon RX 550, 4GB, FH (DP/mDP/mDP)
Qualcomm QCA9377 Dual-band 1x1 802.11ac Wireless with MU-MIMO + Bluetooth 4.1
Internal Wireless Antennas
Qualcomm Wireless QCA9377 1x1 driver
Wireless Optical Mouse - MS116 - Black
Wireless Keyboard KB216 Black (English)
Windows 10 Pro (64bit) English
Applications for Windows
Waves Maxx Audio
Software for OptiPlex Systems
Recovery Environment
SupportAssist
Partner Operations Support
3Y Basic Onsite Service-Emerging DBS
3Y ProSupport and Next Business Day Onsite Service-Emerging DBS Upgrade
Free Installed Security (FeaTures:
Antivirus, Email protection,
IDS/IPS Protection, Firewall Protection, Asset Management,
Web Security and Filtering,
Advanced Device Control,
Application Control, File Activity Monitor,
Patch Management,
DATA Loss Prevention Management and Control)
Centralize Administration
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24" Monitor - P2419H
Kit - Power Cord 2M 125V (US) C13- S2240T only
Technical Support-VN,PH,BN
Warranty:Yr1-3 Premium Panel Warranty, Advanced Exchange Service-
VN,PH,BN
3Yr Premium Panel Warranty, Advanced Exchange Service-VN,PH,BN
MOD,INFO,ex factory,DLVRY

EX-HUB from APCC Penang (DDD)

20 UNITS LAPTOP COMPUTERS
Nvidia GeForce MX130 for Intel 8th Gen Core i7-8565U
Intel Core i7-8565U Processor (8M Cache, up to 4.60 GHz)
ENERGY STAR Qualified
14.0" HD (1366x768) Anti-Glare, Non-Touch, Camera & Mic, WLAN capable
Non-Touch WLAN LCD Cover with HD Camera
Document for MUI (English, Khemer, Bahasa Indonesia, Arabic, Spanish)
Quick Start Guide
16GB, 1X16GB, DDR4 Non-ECC
M.2 256GB PCIe NVMe Class 40 Solid State Drive
Additional 2.5" 1TB 5400RPM SATA Hard Disk Drive
No Resource DVD / USB
65 Watt AC Adapter
Power Cord for 3-pin Adapter (US)
3 Cell 42Whr ExpressChargeTM Capable Battery
Backpack 15 ? PO1520P ? Fits most laptops up to 15"
Intel(R) Core(TM) i7 Processor Label
Qualcomm QCA9377 802.11ac Single Band (1x1) Wireless Adapter+ Bluetooth 4.1
Wireless Driver for Qualcomm QCA9377/QCA61x4A
WM126 Dell Optical Wireless Mouse - Black
Single Pointing Non-backlit Keyboard (English)
Windows 10 Pro (64bit) English
Dell Developed Recovery Environment
Partner Operations Support
1Y Basic Onsite Service-PH
Y2-3 ProSupport and Next Business Day Onsite Service Extension-PH
1Y ProSupport and Next Business Day Onsite Service Upgrade-PH
Free Installed Security (FeaTures:
Antivirus, Email protection,
IDS/IPS Protection, Firewall Protection, Asset Management,
Web Security and Filtering,
Advanced Device Control,
Application Control, File Activity Monitor,
Patch Management,
DATA Loss Prevention Management and Control)
Centralize Administration
Roaming Platform
Group Policy Management

1 UNIT PRINTER
Printer Type: Print, Scan, Copy, Fax with ADF
Photo Default - 10 x 15 cm / 4 x 6 ": Approx. 42 sec. per photo (Border), 52 sec per photo (Borderless)
Draft, A4 (Black / Colour): Up to 32ppm / 20ppm
ISO 24734, A4 Simplex (Black / Colour): Up to 18ipm / 10ipm

ISO 24734, A4 Duplex (Black / Colour): Up to 8.7ipm / 6.0ipm
ISO 24734.2, A3 Simplex (Black / Colour): Up to 10ipm / 5.0ipm
ISO 24734.2, A3 Duplex (Black / Colour): Up to 6.0ipm / 3.7ipm
ISO 29183, A4, Simplex (Black / Colour): Up to 16ipm / 8.8ipm
Reduction / Enlargement:25 - 400%, Auto Fit Function
Maximum Copy Size:A3**Copy Resolution:**600 x 1200dpi
Max Copies:999 copies
Scanner Type: Flatbed Colour Image Scanner
Sensor Type:CIS
Optical Resolution:1200 x 2400 dpi
Maximum Scan Area:297.18 x 431.8 mm (11.7 x 17")
Scanner Bit Depth (Colour):48-bit input, 24-bit output
Scanner Bit Depth (Grayscale):16-bit input, 8-bit output
Scanner Bit Depth (Black & White):16-bit input, 1-bit output
Scan Speed (Flatbed / ADF (Simplex)): Monochrome 200dpi: 6.0sec / 11.0ppm
Colour 200dpi: 12sec / 5.5ppm
USB Host Function: USB Host (Scan to Memory Device / Storage Function)
Type of Direct Printing: USB Memory
Number of Paper Trays:2 (Front 1, Rear 1)
Standard Paper Input Capacity: Cassette: 250 sheets, A4 Plain paper (80g/m^2), 20 sheets, Premium Glossy Photo Paper Rear Slot: 1 sheet
Output Capacity:125 sheets, A4 Plain Paper
20 sheets, Premium Glossy Photo Paper
Maximum Paper Size:329 x 1200 mm (12.95" x 47.24")
Paper Sizes: A3+, A3, A4, A5, A6, B4, B5, Legal, Letter, Executive, 5x7", 4x6", Envelopes: #10, DL, C6, C4
Paper Feed Method: Friction Feed
Print Margin:0 mm top, left, right, bottom via custom settings in printer driver (except plain paper)
USB: USB 2.0
Network: Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct, NFC
Network Protocol: TCP/IPv4, TCP/IPv6, LPD, IPP, PORT9100, WSD
Network Management Protocols: SNMP, HTTP, DHCP, BOOTP, APIPA, PING, DDNS, mDNS, SNTP, SLP, WSD, LLTD
Security Functions: Limit Access Function, PIN No. Certification, LDAP Address Book, Panel Admin Mode
Operating System Compatibility: Windows XP / Vista / 7 / 8 / 8.1 / 10, Windows Sever 2003, 2008, 2012, 2016
Only printing functions are supported for Windows Server OS
Mac OS X 10.6.8 or later

15 UNITS MANAGED NETWORK SWITCH 24 PORT (J9776A)

1 UNIT MANAGED SWITCH

Model Description	48x10G Stackable Managed Switch with 24x10GBASE-T and 24xSFP+
Datasheet (PDF)	M4300 Datasheet
Datasheet (Excel)	M4300 Excel
Ordering Number	XSM4348S
Acoustics	35.8dB @ 25°C (77°F)
Power Consumption (Max)	161 Watts

10G RJ45 Ports   24 x 10GBASE-T (Fast Ethernet, 1G and 10G speeds)
10G Fiber SFP+ Ports   24 x SFP+ (1G and 10G speeds)
Feature Set   Layer 3 (static, policy-based and RIP OSPF VRRP PIM dynamic routing)

Management Ports
1G Ethernet service port for out-of-band management (OOB, RJ45)
RS232 straight-through serial RJ45 for local management console
Mini-USB port for local management console
USB port for local storage, logs, configuration or image files

Form Factor   Full width with dual, redundant modular PSUs for business continuity

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