



PURCHASE ORDER

CITY GOVERNMENT OF PASIG

Agency Name

Supplier : LIGHTNET CONNECT SYSTEMS CORP.

Address : 454-I T. Sullit St., Brgy. Martinez Del 96, Pateros

P.O. No. : 23-10-0688

Date : 10/06/2023

Mode of Procurement : PUBLIC BIDDING

Gentlemen:

Please furnish this office the following articles subject to the terms and conditions contained herein:

Place of Delivery : Pamantasan ng Lungsod ng Pasig

Delivery Term : 60 Calendar Days

Date of Delivery :

Payment Term : within 45 days upon completion of delivery

ITEM NO.	UNIT	QTY	DESCRIPTION	UNIT COST	AMOUNT
1	LOT	1	<p>Installation, Testing and Commissioning of Fiber Backbone and Wireless Network</p> <p>E. TECHNICAL SPECIFICATIONS</p> <p>1. Cable Standard compliance should be: "AZ/NZS 3080 - Generic cabling for customer premises ISO/IEC 11801. "TSO/TEC 60794-1-2 - Fiber optic testing methods. "ITU-T Recommendations - recommendations for G.651 OMI, OM2, and OM3.</p> <p>2. Optical Fiber Specifications should be: "Fiber Core - the optical fiber must have a 50/125-µm fiber OM3. "Minimum Bandwidth - the optical fiber minimum bandwidth should be >2000MHz kilometer @ 850-nm laser & >5000MHz kilometer at 1300- nm overfilled LED. "Numerical aperture - the fiber numerical aperture should be at a minimum 0.200 lus and minus 0.015. "Core - core diameter: 50 plus and minus 3 µm. "Zero Dispersion Slope - must be <0.101 ps/(nm2-kilometer).</p> <p>3. Termination Module: "Mounting - the 19" rack mount fiber termination unit shall consist of a frame mountable housing for terminating and/or splicing fiber optic cables and allow for the organization of the fiber optic interconnections. "Slots Termination - the 19" rack mounting unit should be either 12 or 24- ports for one (1) rack unit and can be either, a fixed position unit or have a slide or swing tray to improve access.</p> <p>4. Patch Cords: "Fiber Core - the patch must consist of one or two single, tight,</p>	1,067,000.00	1,067,000.00

For the improvement & system upgrade of interconnection of networks between offices, classrooms & computer laboratory at Pamantasan ng Lungsod ng Pasig

Control No. **4918**

GRAND TOTAL : Php 1,067,000.00

Total Amount in Words One Million Sixty-seven Thousand Pesos Only.

In case of the failure to make the full delivery within the time specified above, a penalty of one tenth (1/10) of one (1) percent for every day of delay shall be imposed as provided for by the, 2016 IRR of RA 9184.

Very truly yours,

Conforme :

ABEGAIL C. MALONG

(Signature over printed name of Supplier)

October 20, 2023

Date

VICTOR MA REGIS N. SOTTO

(Authorized Official)

City Mayor

Requisitioning Office/Dept. :

GLICERIO M. MANINGAS
(Authorized Official)

Funds Available :

JUVY A. CUENCO
Chief Accountant

Amount : ₱ 1,067,000.00

OBR No. : 100-2023-06

0187-3323



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P.O. No. : 23-10-0688
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ITEM NO.	UNIT	QTY	DESCRIPTION	UNIT COST	AMOUNT
			buffered, multi-mode graded index fiber with 50-micron core & 125-micron cladding to suit the installed OM3 fiber optic cabling. "Return Loss - the patch cord must have SPC polish, typical >40dB. "Factory-Terminated Connectors - the patch cords should be factory terminated with LC ceramic connectors at each end. "Minimum Bending Radius - the specification for bending radius should be 25-mm. "Cable OD - the specific cable OD can be 2-mm or 3-mm. "Tensile Strength - the tensile strength must be 45N "Connectors - the connectors must be a multi-mode SC to LC patch cord. "Cable Performance Testing - on the note of performance testing, the cable must support transmission speed up to 10Gbps at a distance of up to 550-meters with an 850-nm vertical cavity surface with IEEE 802.3ae standard. "Compliance - the components are designed and tested to conform to the fiber and cable performance requirements of TIA 568, ISO 11801, Telcordia GR-409-CORE and ICEA-596 standards. All cables have UL or ETL fire safety listings to either OFNR (UL-1666/CSA FT4) or OFNP (NFPA-262/UL 910/CSA FT6). 5. Cable Standard compliance should be: "Modular Jacks meet or exceed ANSI/TIA-568-C.2 and ISO/IEC 11801 requirements "Cable Qualification - qualified against IEC 61156-5 Cat.6. EN 50288-6- 1 and TIA-568C.2 "Cable Size - the UTP Cable diameter must be 5.6-mm (AWG24) "Other feature - the UTP Cable must have cross-web filler to separate the pairs. 6. Patch Panel: "Contact Plating Specification - the patch panel contacting plating of the modular jacks shall have a minimum thickness of		

For the improvement & system upgrade of interconnection of networks between offices, classrooms & computer laboratory at Pamantasan ng Lungsod ng Pasig

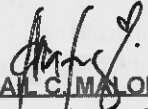
Control No. **4918** GRAND TOTAL : **Php 1,067,000.00**

Total Amount in Words One Million Sixty-seven Thousand Pesos Only.

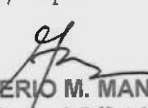
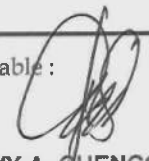
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Very truly yours,

Conforme :


ABEGAIL C. MALONG
 (Signature over printed name of Supplier)
10/20/2023
 Date

VICTOR MA REGIS N. SOTTO
 (Authorized Official)
 City Mayor

Requisitioning Office/Dept :  I GLICERIO M. MANINGAS (Authorized Official)	Funds Available :  JUVY A. GUENCO Chief Accountant	Amount : <u>₱ 1,067,000.00</u> OBR No. : <u>100-2023-06</u> <u>0187-3323</u>
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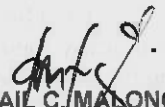
ITEM NO.	UNIT	QTY	DESCRIPTION	UNIT COST	AMOUNT
			1.3-mtr of hard gold in accordance with FCC CFR47 Part 68.5 "Plug Insertion Life - the patch panel modular patch panel will have a plug insertion life of Level B, reliability to IEC 60603-7. 7.Patch Cord: "Factory Prefabricated - Cat.6 patch cords must be machine fabricated. "Matching - the type of patch cords and system leads shall be AWG28 or known commonly as small diameter patch cord. "Documentation Termination Record - all terminations must be documented and properly delivered to the end-user upon turnover and will be the basis of maintenance and troubleshooting. 8.Horizontal Manager: "Mountable to a standard 19" EIA Racks and Cabinets: "Copper conductors in the cable pairs are stranded for superior flexibility and compacted to a near-round shape for optimum signal strength. "Exceeds ANSI/TIA Cat.6 performance requirements. "Up to 32% smaller outer diameter than other patch cords. "Enhanced flexibility, which notably improves handling and circuit tracing. "Flexible strain relief boot maintains proper bend radius to ensure peak performance. 9.Compliant: "The connectivity must be compliant to PoE meeting IEEE 802.3af and IEEE 802.3at for PoE applications. The Connectivity must be 100% performance tested for confidence that each patch cord delivers specified performance wire map, NEXT and return loss. 10.Network Infrastructure Hardware "Core Switch Additional Module and Services Support -Must be compatible to the existing Core Switch (HP 10504 Switch) -Minimum requirements for exiting Core Switch: "Additional 1 unit, 24 Ports 1/10Gig Base-T Module		
For the improvement & system upgrade of interconnection of networks between offices, classrooms & computer laboratory at Pamantasan ng Lungsod ng Pasig					

Control No. **4918** **GRAND TOTAL : Php 1,067,000.00**


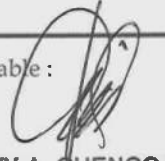
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Very truly yours,

Conforme :

ABEGAIL C. MALONG
 (Signature over printed name of Supplier)
10/20/2023
 Date

VICTOR MA REGIS N. SOTTO
 (Authorized Official)
 City Mayor

Requisitioning Office/Dept. :  GLICERIO M. MANINGAS (Authorized Official)	Funds Available :  JUVY A. GUENCO Chief Accountant	Amount : <u>₱1,067,000.00</u> OBR No. : <u>100-2023-06</u> <u>0187-3323</u>
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P.O. No. : 23-10-0688
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ITEM NO.	UNIT	QTY	DESCRIPTION	UNIT COST	AMOUNT
			"Additional 21 unit, 10Gig SFP+ Transceivers "Additional 3 Years, NBD Support and services for 10500 Switch "IDF Switch -Minimum Specs, consists of a 1U height switch with: "48 fixed 10/100/1000 PoE+ Gig-T ports "4 SFP+ fixed 1,000/10,000 ports "1 dual-personality (RJ-45 or USB micro-B) serial console port "Dual Power Supply (redundancy must be included) "Full L2 with lite Layer 3 switch -Memory and Processor: "2Gb SDRAM, Packet Buffer size: 4Mb, 512Mb flash -Performance: "Throughput: up to 190 million pps "Switching capacity: 216Gbps "MAC address table size, 32000 entries -Management: "Command-Line Interface (CLI) "Web Graphical User Interface (GUI) "SNMPv1 / v2c / v3 -Security: "Access Control lists (ACL), RADIUS/TACACS+, IEEE 802.1X, MAC address lockout, Port Security -Layer-2 Switching: "VLANs - provides support for 512 VLANs, and 4,094 VLAN IDs Jumbo Packet support: 9k from size. -Other Features: "Must have Open-Flow support "Support virtual resilient switching fabric technology "Green IT Certification "Must have free software downloaded via the Internet "IDF Switch (other components): -Minimum requirements: "Comply 18 units of IOG SFP+ LC SR Transceiver "Comply Lifetime Warranty for the Switch		

For the improvement & system upgrade of interconnection of networks between offices, classrooms & computer laboratory at Pamantasan ng Lungsod ng Pasig

Control No. **4918**

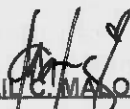
GRAND TOTAL : Php 1,067,000.00

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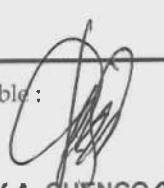

ABEGAIL C. MASONG
 (Signature over printed name of Supplier)
10/20/2023
 Date

VICTOR MA REGIS N. SOTTO
 (Authorized Official)
 City Mayor

Requisitioning Office/Dept. :


GLICERIO M. MANINGAS
 (Authorized Official)

Funds Available :


JUVY A. GUENCO
 Chief Accountant

Amount : ₱ 1,067,000.00
 OBR No. : 106-2023-06
0187-3323



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ITEM NO.	UNIT	QTY	DESCRIPTION	UNIT COST	AMOUNT
			11.New DR Core Switch -Minimum Specs, consists of IU height switch with: "24 fixed 10/100/1000Gig-T ports with 4 SFP+ ports "1 port Expansion Module slots "2 Power Supply slots (Redundancy must include) "Full L3 Switch -Memory and Processor: "2Gb SDRAM, Packet Buffer size: 4Mb, 512Mb flash -Performance: "Throughput: up to 200 million pps "Switching capacity: 280Gbps "MAC address table size 32000 entries -Management: "Command-Line Interface (CLI) "Web Graphical User Interface (GUI) "SNMPv1/v2c/v3 -Security: "Access Control lists (ACL), RADIUS/TACACS+, IEEE 802.1X, MAC address lockout, Port Security -Layer 2 & 3 Feature Set: "Layer 2: VI-AN "GARP VI-AN Registration Protocol "Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping "Spanning Tree/MSTP, RSTP, STP Root Guard "Layer 3 "Static IPv4 routing/IPv6 routing "Routing Information Protocol (RIP), policy-based routing "Open shortest path first (OSPFv3) -Other Features: "Support virtual resilient switching fabric technology "Green IT Certification "Must have free software update, downloaded via the internet 12.New DR Core Switch (Other components)		

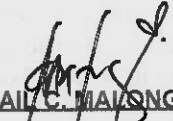
For the improvement & system upgrade of interconnection of networks between offices, classrooms & computer laboratory at Pamantasan ng Lungsod ng Pasig

Control No. **4918** GRAND TOTAL : **Php 1,067,000.00**



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 Date

VICTOR MA REGIS N. SOTTO
 (Authorized Official)
 City Mayor

Requisitioning Office/Dept. :  GLICERIO M. MANINGAS (Authorized Official)	Funds Available :  JUVY A. CUENCO Chief Accountant	Amount : <u>₱ 1,067,000.00</u> OBR No. : <u>100-2023-06</u> <u>0187-3323</u>
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ITEM NO.	UNIT	QTY	DESCRIPTION	UNIT COST	AMOUNT
			"Comply 2 units of IOG SFP+ LC SR Transceiver "Comply Lifetime Warranty for the Switch 13.Wireless Access Point & Controller -Minimum Specification for Access Point: "Must be, Dual-Radio, IEEE 802.11ac, 2.4 GHz MIMO (300Mbps max. rate) and 5 GHz MIMO (1300Mbps max. rate) radios, and three omnidirectional downtilt antennas. "Must be a Controller-based Access Point. "Must be compatible to the PoE+ Switch with IEEE 803.at compliance -Antennas: "Three (3) integrated down-tilt omnidirectional antennas for 3x3 MIMO with peak antenna gain of 3.9dBi in 2.4GHz and 5.4dBi in 5GHz. -Power: "Maximum power consumption: 13-watts (PoE) or 11-watts "Power over Ethernet (PoE): 48-Vdc (nominal), 802.3af/3at compliant source -Minimum Specification for Controller: "Four (4) Dual SFP or 100Base-T Ports with 2 SFP+ Ports, supports up to 250 AP and 8,000 clients, with integrated AC power supply -Performance and Capacity: "Must be support up to 250 AP license maximum "Must have firewall features for mobility wireless "Must have 6094 VI-AN supported "Must have 8,000 concurrent users -Minimum Requirements for A ***** Nothing Follows *****		
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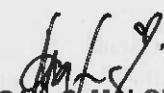
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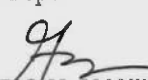
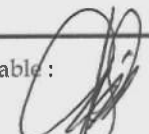
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Conforme :


AREGAIL C. MALONG
 (Signature over printed name of Supplier)
10/20/2023
 Date


VICTOR MA REGIS N. SOTTO
 (Authorized Official)
 City Mayor

Requisitioning Office/Dept. :  GLICERIO M. MANINGAS (Authorized Official)	Funds Available :  JUVY A. CUENCO Chief Accountant	Amount : <u>₱ 1,067,000.00</u> OBR No. : <u>100-2023-06</u> <u>0187-3323</u>
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