

Name of Company:_

PROCUREMENT MANAGEMENT OFFICE

REQUEST FOR QUOTATION

RFQ No.: 100-23-03-607

Date: 17 August 2023

Address:	
Name of Store/Shop:	
Address:	
TIN:	
PhilGEPS Registration Number:	

The City Government of Pasig, through the Bids and Awards Committee (BAC), intends to procure Supply, Delivery, Configuration, Testing, Commissioning, Installation, Upgrading and Additional Closed-Circuit Television (CCTV) Surveillance System - Pamantasan ng Lungsod ng Pasig with an Approved Budget for the Contract (ABC) of Php 450,000.00, in accordance with Section 53.9 of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184. Please quote your best offer for the item in the table below.

The Project shall be awarded as One Project having several items that shall be awarded as one contract. Quotations received exceeding each total Cost per Item and/or the total Approved Budget for the Contract shall be rejected.

					Approve	d Budget	Price	Offer
Item No.	Item Description	Brand Name (PLEASE DO NOT LEAVE BLANK)	QTY	MOU	Unit Cost	Total Cost	Unit cost	Tota Cost
1	Supply, Delivery, Configuration, Testing, Commissioning, Installation, Upgrading / Additional Closed-Circuit Television (CCTV) Surveillance System-Pamantasan ng Lungsod ng Pasig, TECHNICAL SPECIFICATIONS: 1. Bullet IP Camera Video Imaging Sensor: 2-4MP Full HD Progressive Scan CMOS Sensor Size: 1 / 2.7 -1/2.8 mm Produce a resolution of 1920×1080 pixels at up to 30 fps with a 16:9 aspect ratio Lens Focal Length: Vari-focal, f3.3 - 12 mm / F1.6. up to 30 m IR range Dual stream Digital WDR (Wide Dynamic Range) 3D DNR (Digital Noise Reduction) Video Compression: H.264/H.265MPEG-4 SP/MJPEG Interface PoE (Power over Ethernet) Protection IP67		1	lot	450,000.00	450,000.00		



2. Dome IP Camera						
Video Imaging Sensor: 2-4MP Full HD Progressive						
Scan CMOS						
2-4 MP IR Network Dome Camera						
Sensor Size 1/2.7mm-1/2.8mm		1				
1920 × 1080@30fps		1 8				
Iris: Fixed iris						
H.265+/H.265/H.264+/H.264						
Black and White: 0 Lux (IR LED on).						
Digtal WDR (Wide Dynamic Range)		1				
Video Compression: H.264/H.265MPEG-4						
SP/MJPEG						
THE DESCRIPTION OF THE PARTIES AND A STATE OF TH	1					
Focus: Manual focus / Auto						
Network PoE (Power over Ethernet)						
Protection IP67, IK10						
	1					
3. PTZ Camera						
2MP-4MP Pan-Tilt-Zoom Camera	1					
1/2.7 - 1/2.8" progressive scan CMOS						
Up to 1920 × 1080@30fps resolution 16:9 aspect	1					
ratio						
Offer built-in IR illumination to produce a clear	1					1
monochrome image in zero lux conditions with	1					
	1					
30m (100feet) irradiation distance	1	1 1				
Up to 25× optical zoom, 15× digital zoom	1					
120dB wide dynamic range based on Enhanced						
Super Dynamic						
High light compensation (HLC) function	1					
Up to 100 m IR distance	1					
High light compensation (HLC) function	1					
Support H.264/H.265MPEG-4 SP/MJPEG video		1 1				
compression						
Compression	1					
4. Video Recorder	1			ÿ.		
	1	1 1				
Manage up to 32 IP cameras or video encoders		4 1				
Must have at least 32 channels with 1080p real	1 1					
time view	1					
H.265+/H.265/H.264+/H.264 video formats	1					
Up to 2-ch @ 8MP or 4-ch @ 4MP or 8-ch @	1					
1080P	1		3			
decoding capacity	1		1			
Interface: Serial ATA (SATA)	1	1 1				
independent video output	1 1					
4 HDDs for continuous video recording				9		
Up to 256 Mbps incoming bandwidth			į,			
V=10=0000000000000000000000000000000000			Į.			
5. Storage			1			
4TB HDD 4TB / SATA 6 Gb/s / Rotational Speed -				1		9
Up to 32-ch IP camera inputs				3		
H.265+/H.265/H.264+/H.264 video formats	1					
Up to 2-ch @ 8MP or 4-ch @ 4MP or 8-ch @						
1080P	1					
decoding capacity	1					
1 HDMI and 1 VGA interfaces: both interfaces	1 1					
support						
IntelliPower / Buffer Size - 64 MB / Form Factor -			1			
3.5 Inch						
					3	
6. Storage						

4TB HDD 4TB / SATA 6 Gb/s / Rotational Speed					
IntelliPower / Buffer Size - 64 MB / Form Factor -					
The state of the s					
3.5 Inch					
CONTROL OF THE CONTRO		1			
7. Network Switch	1			1 1	
8 Port POE Gigabit Switch -					
8 × Gigabit PoE ports, 1 × Gigabit RJ45 port					
1 × Gigabit SFP fiber optical port					
() 프레이스 프로그램(), 아이터를 가입하다. 이 경기에 가입하다 (C.) 전투 (C.) 이 시간 (C.) 전투 (C.					
Gigabit SFP fiber optical port					
IEEE 802.3at/af standard, IEEE 802.3, IEEE 802.3u,					
IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z					
standard					
6 KV surge protection for PoE ports					
PoE power management					
Gigabit network access					
Wire-speed forwarding and non-blocking design					
Store-and-forward switching					
Solid high-strength metal shell					
Reliable fan-free design					
889					
8. Network Switch					
16 Port POE Gigabit Switch -					
16 × Gigabit PoE ports, 1 × Gigabit RJ45 port					
2 × Gigabit SFP fiber optical port					
IEEE 802.3at/af standard, IEEE 802.3, IEEE 802.3u,		1 9			
IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z					
standard					
6 KV surge protection for PoE ports					
PoE power management					
Gigabit network access					
Wire-speed forwarding and non-blocking design		1			
Store-and-forward switching					
Solid high-strength metal shell					
Q 78					
9. Monitor with Bracket					
55-inch-wide screen					
Smart TV 1080P					
Full HD 1920 x 1080 px					
Contrast Ratio: 3,000,000:1					
Refresh Rate: 60Hz					
Response Time: 6ms					
		1			
Wireless Connectivity					
Web Browser					
Remote Control	1				
Lucies income est. No. 1997	1		i i		
10. Media Converter					
200 000					
10/100/1000 Media Converter SM Feature					
Auto negotiation function allows UTP ports to					
auto select 10/100/1000M and Full Duplex or Half					
Duplex					
5740000 11710 1270 120					
UTP port supports MDI / MDI-X auto crossover					
Supporting the max 1536-byte Ethernet packet		1 1			
Supporting flow control Adopting internal power					
supply					
IEEE802.3z/AB 1000Base-T, 1000Base-SX/LXMAC					
address table					
4K Data Buffer: 256K Connector					
- [- [- [- [- [- [- [- [- [- [
UTP: RJ-45, 10/100/1000MbpsFiber:		1			
SC,1000MbpsCable:	1				

	UTP: Cat 5e or Cat 6 (the max distance up to					
	100m)					
	Fiber (multimode): 50/125, 62.5/125?m (the max	1	1			
	distance up to 550/224m) Fiber					
	(Single mode): 8.3/125, 8.7/125, 9/125?m (the					
	max distance up to 100km) Flow Control					
	Full Duplex: IEEE802.3x flow control	. Y				
	Half Duplex: back pressure flow control Power					
	Power: AC110-240V to DC5V; DC 48V to DC5V.					
	Ambient temperature: 0 ~ 50?Storage		1			
	temperature: -40 ~ 70 degree Humidity: 5% ~ 90%					
	11. UTP Cable		1			
	Cat6e UTP Cable Outdoor					
	UTP CABLE CAT6E 305 METER Inner Conductor thickness: 0.5mm CCA					
	Conductor size: 24AWG					
	Conductor Material: CCA					
	No. of Conductor: 4P		1			
	Insulator Material: HDPE					
	Jacket: PVC+HDPE					
	Shield: Unshielded twisted pairs					
20	Filler: PE CROSS					
1	Insulation Thickness: 0.18mm					
	Jacket Thickness: 0.65mm(±0.02mm)					
	Stretching Resistance: (max)400N					
	Impedance: 100±15%? at 1~250MHz	1	i i			
1	Transmission Velocity: 66%					
	Working Capacitance: 5.4nf/100m		1			
	Insulation Resistance: 10000Mî@.km					
	Operating Temperature: ~40 ºC - +70 ºC					
	THE RESTRICTE WI					
	12. HDMI Cable					
	HDMI Cable 50 Meters				1	
	HDMI A Male to A Male Cable:					1
	Supports Ethernet, 3D, 4K video and Audio Return					
	Channel (ARC) Connects Blu-ray players, Fire TV,					
	TV, PS4, PS3, XBox one, Xbox 360, computers and	1				1
	other HDMI-enabled devices to TVs, displays, A/V					
	receivers and more Cable allows you to share an					
	Internet connection among multiple devices					
	a conserva socializar da el económico el estado do comentar a comentar el el estado de la comención de la comenta de la comentar el estado del comentar el estado de la comentar el estado de la comentar el estado del estado de la comentar el estado del estado de la comentar el estado del estado de la comentar el estado del estado de la comentar el estado del estado de la comentar el estado de la comentar el estado de l					
	13. CCTV Box	1			1	
	CCTV Box White	1				4
	100x100x70mm IP65 Waterproof Outdoor					
	Electrical CCTV Enclosure Square Junction Box	1				
	White ABS					
	14 Four (4) Core ETTU Deep Cobie CA4					
	14. Four (4) Core FTTH Drop Cable SM Singlemode Fiber Optic	1				
	Indoor and Outdoor Application	1				
	missor and Outdoor Application					
	15. Two (2) Port ODF					
	Indoor FTTH Plastic Fibre Optical Cable Access	1				
	Termination Box 2 Port SC Simplex/ LC Duplex			1		
	Slots					
	16. SC-SC Patchcord	1				
	10. 30-30 Fatericord			 		

Single mode 3M manufactured by using OFNR							
riser rate cable, OFNP Plenum rate, LSZH and		1 8					
customize							
cable.							
UNDER OF SECTION 1/2							
With 100% factory tested to ensure the perfect							
performance to meet TIA/EIA-568-B-2							
IS011801:2002 and EN 50173-1 standards.							1
All assemblies are tested to meet Telcordia				1			
GR326-CORE.							
The received and contractive a							
17. Royal Cord						1	
The conductor suitable for applications at							
temperature not exceed 60 OC and voltage not							
exceed 600 Volts.							
Bare, soft annealed copper per ASTM B-3,							
Bunched-Stranded per ASTM B172 & ASTM B 174		1 1					
[- 1]							
standard. (PNS 163) Lead Free Flame Retardant		1 1					
PVC per UL 62 standard		1 1					
				ii O			
18. TTC Cabinet							
Made of high quality electro-galvanized steel			1				
sheet of		1					1
1.2mm thickness							
Epoxy polyester coated in RAL7032							
Standard mounting plate, orange painted, 2mm							
thickness							
Easily removable hinges for changing the door							
opening			1				
Direction							
CONTROL OF THE PROPERTY OF THE							
Degree of protection: IP66, Nema 4 and 12							
Complies with IEC60529							
19. 4 Gang Outlet							
4 Gang Surface Outlet							
High Quality Standard							
Compatible with Flat Pin or Round Pin Outlet	1						
Rated Current: 10A							
Rated Voltage: 250V			1				
grander and the contract of the state of the angles of the state of th			- 1				
20. Circuit Breaker with Housing			1				
20 AMP			1				
20 AWI							
21. Omada Gigabit VPN Router	1		1				
[[일본 :	0						
Protocols IEEE 802.3, 802.3u, 802.3ab, IEEE							
802.3x, IEEE 802.1q							
TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP,			3				
HTTPS, DNS, IPSec, PPTP, L2TP, OpenVPN, SNMP			3				
Interface 1 Fixed Gigabit WAN Port			1				
1 Fixed Gigabit LAN Port			3				
3 Changeable Gigabit WAN/LAN Ports							
Network 10BASE-T: UTP category 3, 4, 5 cable			1				
(Max 100m)							
EIA/TIA-568 100? STP (Max 100m)							
100BASE-TX: UTP category 5, 5e cable (Max 100m)							
EIA/TIA-568 100? STP (Max 100m)			1				
은 자꾸 전투 10대 전 1							
1000BASE-T: UTP category 5, 5e, 6 cable (Max			1				
100m)							
DRAM 128 MB							
Functions ACL, Advanced Routing, Bandwidth Control, Load Balance, NAT, Security, Session					I		
		4		1			

Limit, VPN, IPsec VPN, PPTP VPN, L2TP VPN and				E 1978		
Open VPN						
Security Filtering, ARP Inspection, Attack Defense,				(
Access Control and Web Authentication						
Management Omada App, Centralized						
Management, Cloud Access						
22. Rough-In Materials			1			
Protocols PVC Pipes, Mouldings and Connectors						
Consumable Materials Ties, Tapes and Clamps						
Consumable Materials fles, Tapes and Clamps						
23. Labor Cost						
III. VIDEO RECORDING REQUIREMENTS:						
Must be continuous recording.						
2. Twenty (20) Days with 4 TB storage at 4th floor				i i		
cameras setup and Fifteen (15) Days with 8 TB			1			
storage at Quadrangle, 1st, 2nd, 3rd floors						
3. Viewing room will be placed in the PLP main						
lobby and Network Video Recorder will be placed						
in the server room.						
IV. INSTALLATION						
- The Contractor shall perform the installation,						
testing and commissioning of all equipment. All						1
necessary tests, services and inspections to assure						
the system functions shall be checked and						
approved before the acceptance test.						
Consideration shall be given to the fact that						
installation or tests of other systems within the						
same building may be carried out during the same						
period.						
- The Contractor shall prepare and furnish fully						
dimensioned scaled drawings of builder's work		1				
arising from the installation of the equipment and						
system as well as for the equipment layout plans at various locations.						
- The work drawings shall show:						
- The work drawings shall show: - The general arrangement of cabinets and other						
facilities in the equipment areas as well as the				9	1	
operational area						
- The general arrangement of cabling within the						
system.						3
- As soon as the commissioning of the equipment						
and system have been completed, the Contractor		1		Y		
shall amend or correct all his Approved Drawings,				8		
if so required, furnish three (3) sets of prints of all						
"As-built" drawings showing the works as finally					1	
installed and commissioned. These drawings shall					. 1	
be furnished in hard binding cover/covers.				l l		
- The "As-built" drawings shall show the general				1		
arrangement of all equipment's and auxiliaries,						
positions of all electrical outlets, fittings, switches,		9				
switch-boards and control panels, cables, pipes,						
ducts runs, markers and underground ducts, inter-				X		
wiriness, schedules, plant manufacturers name						
plates, models and type numbers and other						
information necessary to facilitate routine						
inspection and maintenance of installation.						
- Two (2) sets of the "As-built drawings" shall be			1			

delivered on CD ROM media, The Contractor shall

-	a language dela December de and constato al moftween consta							1
	also provide licensed and updated software used							
	in the preparation of the drawings.							
	 Outdoor cables shall be, in principle, installed 							
	underground through galvanized steel pipe or of							
	EMT conduit. The cable conduits shall be sealed							
	properly at both ends for protection of cables							
	against rodents and inner edge at both ends shall							
	be chamfered to avoid damage to cables during							
	installation.							
	- No cables shall be installed until the inside of							
	마는 전문에 가장하는 경기를 통해 가게 되었다. 이렇게 하면 되었다면 이렇게 하는데 되었다면서 되었다면서 되었다면 되었다면 되었다고 보게 보면 이 모르다고 모르다고 보다.							
	the conduit pipes have been cleaned.							
	 Roughing-ins including supports, boxes, fittings, 							
	cover plates, mounting brackets should be							
	provided by the contractor.							
	V. PROVISION OF DOCUMENTATION							
	A. General Requirements							i
	 It is essential that documentation is of high 							
	standard, and that text is presented in a clear and							
	correct language. Where possible, diagrams,	1			1			
	pictures etc. shall be used as supplement to the							
	text.) I	
	- Three (3) sets of documents on each piece of							
	equipment delivered shall be submitted for		1					
	review and approval by PLP one (1) month before							
	each equipment is ready for testing. ? All							
	documents and manuals shall be delivered both in					0		
			J. H					
	printed form and in computer readable files. The				\			
	requirement for computer readable files is							
	mandatory for software documentation. If the							
	Contractor has used word processor for				3			
	production of other equipment is ready for site			1				
	testing.						1	
1	B. Manual							
	 Manuals shall give a full overview of the 			1				
	integration of the various sub-systems. The						1	
	manuals shall follow the outline structure given			1			1	
	below, to the extent considered relevant by the							
8	Contractor and approved by PLP.							
	- Documents and manuals shall give an outline of			-				
	the complete system as delivered. It shall be							
	adapted to the engineering and maintenance staff		1					
	and described how the system is composed and							
	functions.							
	- System Operator's Manual							
	- This manual shall give a detailed description of							
	all system operation functions, including input		1 1					
	actions and error response.							
	C. User's Manual							
	PRODUCTION OF SANTANGE AND SANTANGE AND A STATE OF SAN							
	- This manual shall give a detailed description of							
	all functions, seen from the user's point of view.							
	D. Equipment Manual		1					
	- The Equipment Manual shall give full details of				1			
	sub-systems or units on the following subjects as		1					
	a minimum; general description; complete block				(1)			
	diagrams; complete logical and schematic			i				
	diagrams; mechanical and electrical data;							
	interface data; configurations and parameter/							
1	switch cottings: test points and corresponding	l "				II II		

switch settings; test points and corresponding

waveforms.	
M. TRAINING AND TECHNICIOCY TRANSFER	
VI. TRAINING AND TECHNOLOGY TRANSFER	
- The technical staff shall give the trainees detailed	1 1
knowledge of the technical functions. On	
completion of the courses, the trainees shall be	
able to perform tests of the system, to maintain	1 1
the system.	
- For the training purpose, preliminary handbooks	
may be used if the content is identical to the	
handbooks belonging to the system. If the training	
documents do not fully correspond with the	
system handbooks it shall be so stated in the	
proposal and the students shall be informed at	
each occasion,	
- The training material consisting of the	
documentation to be delivered with the final	
supply shall be of the format specified in the	
Documentation.	
- The Contractor shall supply each trainee with	
one complete set of relevant training	
documentation (both hard copies and electronic	
copies in CD ROM) before the start of each	
course.	
- All test equipment used under training shall be	
of the same kind as contracts. Maintenance of the	
training and the test equipment is the Contractor's	
responsibility.	
- Operator's training shall not be less than two (2)	
training days and with certificates to be issued	
after the completion of training.	
- Maintenance Training shall not be less than two	
(2) training days with certificates to be issued	
after training.	
VII. INSPECTION AND TESTING	
- Before the final acceptance of the work, the	
Contractor shall test the system to demonstrate	
compliance with contract requirements.	
 The whole system shall be subjected to complete functional and operational tests. 	
When these tests have been completed and	
corrections made as necessary, the Contractor	
shall submit a signed and dated certificate with a	
request for formal inspection and test.	
VIII. PROJECT TIMEFRAME	
The contractor shall deliver the installation of the	
Video Surveillance system within Thirty (30)	
calendar days from receipt of Notice to Proceed.	
IX. WARRANTY	
- Upon completion and before final acceptance of	
the work, the contractor/supplier shall furnish	
[] - [12일(대한민준) ' ') 의 12인(대한민준) 이 전 (대한민준)	
PLP a written guarantee, stating that all works executed under this project are free from	
material defects and workmanship; and	
[[
 The guarantee for supplied equipment shall have a period of at least one (1) year inclusive 	
labor, transportation and expenses that are needed for the repair/replacement of defective	
equipment Provision of maintenance and technical support	
- Provision of maintenance and technical support	

of two (2) years from the date of acceptance for the passive devices. Note: Other terms and conditions are stipulated in the attached Terms	Tatel	450,000.00	
of Reference, if any.	Total	450,000.00	

*Indicate the BRAND NAME or MANUFACTURER NAME and the specific MODEL to be offered or attach a BROCHURE for the offered item; items including but not limited to clothing, vehicle, equipment, devices, electronics, machines, drugs, medicines, medical supplies must be branded or at the very least, manufacturer shall be indicated.

Submit this Quotation (Accomplished and duly signed by the Owner or the respective Authorized Representative indicated in the Secretary's Certificate/Special Power of Attorney) not later than the closing date specified in the Bid Notice Abstract posted in PhilGEPS website along with the following documents:

- Mayor's/Business Permit (or a recently expired Mayor's/Business permit together with the official receipt as proof that the prospective bidder has applied for renewal within the period prescribed by the concerned local government unit subject to submission of the Mayor's Permit before the award of contract). The nature of business as stated in the Mayor's/Business Permit should at the very least be similar or related to the project to be bid.
- PhilGEPS Registration Number
- Income Tax Return Latest Income or Business Tax Returns filed and paid through the BIR Electronic Filing and Payment System (EFPS).

In accordance with Revenue Regulation No. 3-2005, the above-mentioned tax returns shall refer to the following:

- Latest Income Tax Return (ITR) For participants already with an Annual ITR, latest ITR shall refer to the ITR for the preceding Tax Year be it on a calendar or fiscal year. For new establishments which, therefore, have no annual ITR yet, it shall refer to the most recent quarter's ITR.
- Latest Business Tax Return refers to the Value Added Tax (VAT) or Percentage Tax returns covering the previous six (6) months.
- Accomplished and notarized Omnibus Sworn Statement
 (https://www.gppb.gov.ph/assets/forms/Omnibus%20Sworn%20Statement(Revised).docx)
- Proof of Authorization: Secretary's Certificate if corporation, or Special Power of Attorney, if individual.

ADDITIONAL REQUIREMENTS:

For Procurement of Drugs and Medicines:

Documents from the Food and Drug Administration (FDA):

- a. Certificate of Product Registration;
- b. Certificate of Good Manufacturing Practice;
- c. License to Operate;
- Batch Release Certificate (for vaccines, toxoids and immunoglobulins only) [to be submitted upon delivery]; and
- Certificate of Analysis (for anesthesia and antibiotics) [to be submitted upon delivery].

If the Supplier is not the Manufacturer, a certification from the Manufacturer that the supplier is an authorized distributor/dealer of the products/items.

Caruncho Avenue, Brgy. San Nicolas, Pasig City, Philippines 1600

Please submit the accomplished Quotation and required documents on or before the deadline of submission at the Bids and Awards Committee (BAC) through the Procurement Management Office (BAC Secretariat Office), 4th Floor, Pasig City Hall, San Nicolas, Pasig City.

All documents should be submitted in a sealed brown envelope addressed to the "Bids and Awards Committee, 4th Floor, Pasig City Hall", and properly marked with the Project Title as provided herein.

The CITY GOVERNMENT OF PASIG reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

For any clarification, you may contact us at telephone no. (02) 8641-1111 / (02) 8643-1111 loc. 1461 or email address at bidsandawards@pasigcity.gov.ph

Officer in Charge, Procurement Management Office

I hereby certify that I have read and agree to this Request for Quotation, its Terms of Reference, and Bid Bulletin/s, if any. I further certify that the products to be delivered will conform to the specifications stated in the Item Description.

Conforme:		
Signature over Printed Name	Position	
Duly authorized to sign quotation/offer for and on behalf of _	(Please indicate Company Name)	



PAMANTASAN NG LUNGSOD NG PASIG



Alcalde Jose St. Kapasigan, Pasig City Tel No. 86281013 loc. 101

Management Information System Office

PROJECT NAME:

Supply, Delivery, Configuration, Testing, Commissioning, Installation,

Upgrading / Additional Closed-Circuit Television (CCTV) Surveillance System -

Pamantasan ng Lungsod ng Pasig (PLP)

TO:

All Prospective Bidders

Members of the Bids and Awards Committee

Other Concerned

TERMS OF REFERENCE

I. Total Number of Network Nodes

Below is the total number of required CCTV Cameras as distributed (2nd flr, 5th to 8th flr.) of PLP main building:

Location	Number of CCTV Camera
2ndFloor (GSO-Storage) PLP Main bldg.	3
5th Floor PLP Main Building	5
6 th Floor PLP Main Building	6
7 th Floor PLP Main Building	6
8 th Floor (Auditorium & Gym) PLP bldg.	7
Total	27

II. GENERAL SCOPE OF WORK AND DELIVERABLES

A. Scope of Work

- The, work includes the furnishings of materials, consumable materials, facilities, civil works, labor, tools, equipment, test instruments, apparatus, specialties and other services necessary to complete the installation and commissioning of the Intelligent Video Solution system at Pamantasan ng Lungsod ng Pasig which includes all peripherals equipment system necessary for the completion of the project.
- Contractor shall be responsible for any additional electrical power requirements with the coordination and approval of PLP Building Administrator.
- The Contractor will have access to the site five (5) days a week (Mon. to Fri.) starting the date of receipt of the notice to proceed, however, all works should be coordinated with the Building Administrator and MISO on a weekly basis and can be revoked or suspended at any time in case of urgent operational need.
- 4. The contractor shall submit a weekly progress report.
- The contractor shall submit the following documentation to PLP upon completion of the project.
 - √ System brochures/documentation for systems operational & Maintenance/User Manuals-one [1] original and three [3] copies.
 - ✓ Detailed equipment list stating the location, make model, serial numbers, firmware among others.
 - √ Result of system test as per manufacturer standards
 - √ System and Workmanship Warranty/Guarantee
 - √ One [1] year maintenance proposals
 - √ Certification of Parts availability and support for One [1] year
 - √ Training Certification of attendees for Operations and Maintenance of the system.
 - √ For the horizontal cables it should run at cable trays with hanger and support and the vertical cables will use PVC pipes and plastic mouldings.

B. Deliverables:

 2^{nd} floor to 8th floor CCTV requirements – the materials listed below are the minimum requirements for the cabling installation:

	Item Description	Quantity
1.	2MP Bullet IP CCTV Camera	20 pcs.
2.	2MP Dome IP CCTV Camera	5 pcs.
3.	2MP PTZ Camera	2 pcs.
	32 CH Network Video Recorder	1 unit
5.	4TB HDD	2 units
6.	4 Port POE Gigabit Switch	2 units
7.	8 Port POE Gigabit Switch	2 units
8.	16 Port POE Gigabit Switch	1 unit
9.	55" Monitor with Bracket	1 unit
10.	10/100/1000 Media Converter SM	16 pieces
11.	Cat6e UTP Cable Outdoor	5 rolls
12.	HDMI Cable 50 Meters	1 pc.
13.	CCTV Box White	24 pcs.

14.	4 Core FTTH Drop Cable SM	200 mtr.
15.	2 Port ODF	6 pcs.
16.	SC-SC Patchcord 3M	6 pcs.

17.	Royal Cord 16/2	1 Roll
18.	TTC Cabinet	2 pcs.
19.	4 Gang Outlet	2 pcs.
20.	20AMP Circuit Breaker with Housing	2 pcs.
21.	Omada Gigabit VPN Router	2 units
22.	Roughing Ins Materials (PVC Pipes, Mouldings, Connectors) and Consumable Materials (Ties, Tapes, Clamps	1 Lot
23.	Labor Cost	1 Lot

TECHNICAL SPECIFICATIONS:

1. Bull	et IP Camera
Video	2,0 MP IR Network

	1/2.8" progressive scan CMOS
	1920 × 1080@30fps
	2.8 mm/4 mm fixed lens
	up to 30 m IR range
	Dual stream
	Digital WDR (Wide Dynamic Range)
	3D DNR (Digital Noise Reduction)
Video	H.265+/H.265/H.264+/H.264
Interface	PoE (Power over Ethernet)
Protection	IP67

2. Dome	e IP Camera	
Video	2MP Dome IP CCTV Camera	
15	2.0 MP IR Network Dome Camera	
	Must be 1/2.8" progressive scan CMOS	
	1920 × 1080@30fps	
	2.8 mm/4 mm fixed lens	
	H.265+/H.265/H.264+/H.264	
	Dual stream	
	Digtal WDR (Wide Dynamic Range)	
Video	3D DNR (Digital Noise Reduction)	
	Up to 30 m IR range	
Network	PoE (Power over Ethernet)	

Control	
Protection	IP67, IK10

A DESERVED AND THE REAL ADDRESS OF THE PROPERTY AND PROPE
 2MP PTZ Camera
1/2.8" progressive scan CMOS
Up to 1920 × 1080@30fps resolution
Excellent low-light performance with powered-by- DarkFighter technology
25× optical zoom, 16× digital zoom
 WDR, HLC, BLC, 3D DNR, Defog, EIS, Regional
 Exposure, Regional Focus
Up to 100 m IR distance
12 VDC & PoE (802.3 at, class4)
Support H.265+/H.265 video compression

4. Video Recorder		
	32 CH Network Video Recorder	
	Up to 32-ch IP camera inputs	
	H.265+/H.265/H.264+/H.264 video formats	

Up to 2-ch @ 8MP or 4-ch @ 4MP or 8-ch @ 1080P	1.00
decoding capacity	
1 HDMI and 1 VGA interfaces: both interfaces support	
independent video output	
4 HDDs for continuous video recording	
Up to 256 Mbps incoming bandwidth	
	decoding capacity 1 HDMI and 1 VGA interfaces: both interfaces support independent video output 4 HDDs for continuous video recording

5. Sto	i age
	4TB HDD 4TB / SATA 6 Gb/s / Rotational Speed -
	Up to 32-ch IP camera inputs
	H.265+/H.265/H.264+/H.264 video formats
	Up to 2-ch @ 8MP or 4-ch @ 4MP or 8-ch @ 1080P
	decoding capacity
	1 HDMI and 1 VGA interfaces: both interfaces support

IntelliDow	er / Buffer Size - 64 MB / Form Factor - 3.5 Inch
intempow	i / bullet Size - 64 Mb / FUTH Factor - 5.5 Hch

4TB HDD 4TB / SATA 6 Gb/s / Rotational Speed
 IntelliPower / Buffer Size - 64 MB / Form Factor - 3.5 Inch

7. Network Switch

8 Port POE Gigabit Switch -	
8 × Gigabit PoE ports, 1 × Gigabit RJ45 port	
1 × Gigabit SFP fiber optical port	
Gigabit SFP fiber optical port	
IEEE 802.3at/af standard, IEEE 802.3, IEEE 802.3u,	
IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z standard	
6 KV surge protection for PoE ports	
PoE power management	
 Gigabit network access	
Wire-speed forwarding and non-blocking design	
Store-and-forward switching	
Solid high-strength metal shell	
Reliable fan-free design	

8. Ne	twork Switch
	16 Port POE Gigabit Switch -
	16 × Gigabit PoE ports, 1 × Gigabit RJ45 port
	2 × Gigabit SFP fiber optical port
	IEEE 802.3at/af standard, IEEE 802.3, IEEE 802.3u,
	IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z standard
	6 KV surge protection for PoE ports
	PoE power management
	Gigabit network access

Wire-speed forwarding and non-blocking design	
Store-and-forward switching	
Solid high-strength metal shell	

9. Moi	nitor with Bracket
	55-inch wide screen
	Smart TV 1080P
	Full HD 1920 x 1080 px
	Contrast Ratio: 3,000,000:1
	Refresh Rate: 60Hz
	Response Time: 6ms
	Wireless Connectivity
	Web Browser
	Remote Control

10.	Media Converter
	10/100/1000 Media Converter SM Feature
	Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex
	UTP port supports MDI / MDI-X auto crossover
	Supporting the max 1536-byte Ethernet packet Supporting flow control Adopting internal power supply
	IEEE802.3z/AB 1000Base-T, 1000Base-SX/LXMAC address table
	4K Data Buffer: 256K Connector

UTP: RJ-45, 10/100/1000MbpsFiber: SC,1000MbpsCable:
UTP: Cat 5e or Cat 6 (the max distance up to 100m)
Fiber (multimode): 50/125, 62.5/125μm (the max distance up to 550/224m) Fiber
(Single mode): 8.3/125, 8.7/125, 9/125μm (the max distance up to 100km) Flow Control
Full Duplex: IEEE802.3x flow control
Half Duplex: back pressure flow control Power
Power: AC110-240V to DC5V; DC 48V to DC5V.
Ambient temperature: 0 ~ 50°CStorage temperature: -40 70°CHumidity: 5% ~ 90%

11. U	TP Cable	
	Cat6e UTP Cable Outdoor	
	UTP CABLE CAT6E 305 METER	
	Inner Conductor thickness: 0.5mm CCA	
	Conductor size: 24AWG	
	Conductor Material: CCA	
	No. of Conductor: 4P	
	Insulator Material: HDPE	
	Jacket: PVC+HDPE	
	Shield: Unshielded twisted pairs	
	Filler: PE CROSS	

Insulation Thickness: 0.18mm	
Jacket Thickness: 0.65mm(±0.02mm)	
Stretching Resistance: (max)400N	
Impedance: 100±15%Ω at 1~250MHz	
Transmission Velocity: 66%	
Working Capacitance: 5.4nf/100m	
Insulation Resistance: 10000Mî©.km	
Operating Temperature: ~40 °C - +70 °C	

HDMI Cable 50 Meters
HDMI A Male to A Male Cable:
Supports Ethernet, 3D, 4K video and Audio Return Channel (ARC) Connects Blu-ray players, Fire TV, TV, PS4, PS3, XBox one, Xbox 360, computers and other HDMI-enabled devices to TVs, displays, A/V
receivers and more Cable allows you to share an Internet connection among multiple devices

13. (CCTV Box
	CCTV Box White
	100x100x70mm IP65 Waterproof Outdoor Electrical CCTV Enclosure Square Junction Box White ABS

14. F	our (4) Core FTTH Drop Cable SM	
	Singlemode Fiber Optic	
	Indoor and Outdoor Application	

15. T	wo (2) Port ODF
	Indoor FTTH Plastic Fibre Optical Cable Access
	Termination Box 2 Port SC Simplex/ LC Duplex Slots

16.	SC-SC Patchcord
	Single mode 3M manufactured by using OFNR riser rate cable, OFNP Plenum rate, LSZH and customize cable.
	With 100% factory tested to ensure the perfect performance to meet TIA/EIA-568-B-2
	IS011801:2002 and EN 50173-1 standards.
	All assemblies are tested to meet Telcordia GR326-CORE.

17.	Royal Cord
	The conductor suitable for applications at temperature not exceed 60 OC and voltage not exceed 600 Volts.
	Bare, soft annealed copper per ASTM B-3,
	Bunched-Stranded per ASTM B172 & ASTM B 174 standard. (PNS 163) Lead Free Flame Retardant PVC per UL 62 standard

18. TTC Cabinet

Made of high quality electro-galvanized steel sheet of 1.2mm thickness
Epoxy polyester coated in RAL7032
Standard mounting plate, orange painted, 2mm thickness
Easily removable hinges for changing the door opening Direction
Degree of protection: IP66, Nema 4 and 12
Complies with IEC60529

19. 4	Gang Outlet
E.S.	4 Gang Surface Outlet
	High Quality Standard
8' 31	Compatible with Flat Pin or Round Pin Outlet
	Rated Current: 10A
	Rated Voltage: 250V

20. Circu	it Breaker with Housing	
	20 AMP	

21. Omac	a Gigabit VPN Router
Protocols	IEEE 802.3, 802.3u, 802.3ab, IEEE 802.3x, IEEE 802.1q TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP, HTTPS, DNS, IPSec, PPTP, L2TP, OpenVPN, SNMP

Interface	1 Fixed Gigabit WAN Port
	1 Fixed Gigabit LAN Port
	3 Changeable Gigabit WAN/LAN Ports
Network	10BASE-T: UTP category 3, 4, 5 cable (Max 100m)
	EIA/TIA-568 100Ω STP (Max 100m)
	100BASE-TX: UTP category 5, 5e cable (Max 100m)
	EIA/TIA-568 100Ω STP (Max 100m)
	1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m)
DRAM	128 MB
Functions	ACL, Advanced Routing, Bandwidth Control, Load Balance, NAT, Security, Session Limit, VPN, IPsec VPN, PPTP VPN, L2TP VPN and Open VPN
Security	Filtering, ARP Inspection, Attack Defense, Access Control and Web Authentication
Management	Omada App, Centralized Management, Cloud Access

22. Rough-In Materials		
Protocols	PVC Pipes, Mouldings and Connectors	
	Consumable Materials Ties, Tapes and Clamps	

23. Labor Cost		
Compared to the Compared to the Authority of Minister and Minister (m)		

III. VIDEO RECORDING REQUIREMENTS:

- 1. Must be continuous recording.
- Twenty (20) Days with 4 TB storage at 4th floor cameras setup and Fifteen (15) Days with 8 TB storage at Quadrangle, 1st, 2nd, 3rd floors
- Viewing room will be placed in the PLP main lobby and Network Video Recorder will be placed in the server room.

IV. INSTALLATION

- √ The Contractor shall perform the installation, testing and commissioning of all equipment. All necessary tests, services and inspections to assure the system functions shall be checked and approved before the acceptance test. Consideration shall be given to the fact that installation or tests of other systems within the same building may be carried out during the same period.
- √ The Contractor shall prepare and furnish fully dimensioned scaled drawings of builder's work
 arising from the installation of the equipment and system as well as for the equipment layout
 plans at various locations.
- √ The work drawings shall show:
 - The general arrangement of cabinets and other facilities in the equipment areas as well as the operational area
 - The general arrangement of cabling within the system.
- √ As soon as the commissioning of the equipment and system have been completed, the
 Contractor shall amend or correct all his Approved Drawings, if so required, furnish three (3)
 sets of prints of all "As-built" drawings showing the works as finally installed and
 commissioned. These drawings shall be furnished in hard binding cover/covers.
- √ The "As-built" drawings shall show the general arrangement of all equipment's and auxiliaries, positions of all electrical outlets, fittings, switches, switch-boards and control panels, cables, pipes, ducts runs, markers and underground ducts, inter-wiriness, schedules, plant manufacturers name plates, models and type numbers and other information necessary to facilitate routine inspection and maintenance of installation.
- √ Two (2) sets of the "As-built drawings" shall be delivered on CD ROM media, The Contractor shall also provide licensed and updated software used in the preparation of the drawings.
- ✓ Outdoor cables shall be, in principle, installed underground through galvanized steel pipe or of EMT conduit. The cable conduits shall be sealed properly at both ends for protection of cables against rodents and inner edge at both ends shall be chamfered to avoid damage to cables during installation.

- √ No cables shall be installed until the inside of the conduit pipes have been cleaned.
- √ Roughing-ins including supports, boxes, fittings, cover plates, mounting brackets should be provided by the contractor.

V. PROVISION OF DOCUMENTATION

A. General Requirements

- √ It is essential that documentation is of high standard, and that text is presented in a clear and correct language. Where possible, diagrams, pictures etc. shall be used as supplement to the text.
- √ Three (3) sets of documents on each piece of equipment delivered shall be submitted for review and approval by PLP one (1) month before each equipment is ready for testing.
- √ All documents and manuals shall be delivered both in printed form and in computer readable files. The requirement for computer readable files is mandatory for software documentation. If the Contractor has used word processor for production of other equipment is ready for site testing.

B. Manual

- √ Manuals shall give a full overview of the integration of the various sub-systems. The manuals shall follow the outline structure given below, to the extent considered relevant by the Contractor and approved by PLP.
- ✓ Documents and manuals shall give an outline of the complete system as delivered. It shall be adapted to the engineering and maintenance staff and described how the system is composed and functions.
- √ System Operator's Manual
- √ This manual shall give a detailed description of all system operation functions, including input actions and error response.

C. User's Manual

 This manual shall give a detailed description of all functions, seen from the user's point of view.

D. Equipment Manual

a. The Equipment Manual shall give full details of sub-systems or units on the following subjects as a minimum; general description; complete block diagrams; complete logical and schematic diagrams; mechanical and electrical data; interface data; configurations and parameter/ switch settings; test points and corresponding waveforms.

VI. TRAINING AND TECHNOLOGY TRANSFER

- √ The technical staff shall give the trainees detailed knowledge of the technical functions. On completion of the courses, the trainees shall be able to perform tests of the system, to maintain the system.
- √ For the training purpose, preliminary handbooks may be used if the content is identical to the handbooks belonging to the system. If the training documents do not fully correspond with the system handbooks it shall be so stated in the proposal and the students shall be informed at each occasion,
- √ The training material consisting of the documentation to be delivered with the final supply shall be of the format specified in the Documentation.
- √ The Contractor shall supply each trainee with one complete set of relevant training documentation (both hard copies and electronic copies in CD ROM) before the start of each course.
- ✓ All test equipment used under training shall be of the same kind as contracts. Maintenance of the training and the test equipment is the Contractor's responsibility.
- ✓ Operator's training shall not be less than two (2) training days and with certificates to be issued after the completion of training.
- √ Maintenance Training shall not be less than two (2) training days with certificates to be issued after training.

VII. INSPECTION AND TESTING

- ✓ Before the final acceptance of the work, the Contractor shall test the system to demonstrate compliance with contract requirements.
- √ The whole system shall be subjected to complete functional and operational tests.
- √ When these tests have been completed and corrections made as necessary, the Contractor shall submit a signed and dated certificate with a request for formal inspection and test.

VIII. PROJECT TIMEFRAME

The contractor shall deliver the installation of the Video Surveillance system within Sixty (60) calendar days from receipt of Notice to Proceed.

IX. WARRANTY

- ✓ Upon completion and before final acceptance of the work, the contractor/supplier shall furnish PLP a written guarantee, stating that all works executed under this project are free from material defects and workmanship; and
- √ The guarantee for supplied equipment shall have a period of at least one (1) year inclusive labor, transportation and expenses that are needed for the repair/replacement of defective equipment.
- √ Provision of maintenance and technical support onsite on the workmanship warranty for a
 period of two (2) years from the date of acceptance for the passive devices.

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