



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF BUDGET AND MANAGEMENT
 GENERAL SOLANO STREET, SAN MIGUEL, MANILA

SUPPLEMENTAL/BID BULLETIN (SBB) NO. 1

This SBB No. 1 dated July 30, 2019 for the Project, "Supply, Delivery, Installation, Testing, and Commissioning of IP-CCTV Surveillance System for the DBM Central Office," is issued to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of said Documents.

PARTICULARS			CLARIFICATIONS/AMENDMENTS		
<i>Section VI. Schedule of Requirements</i>			<i>Section VI. Schedule of Requirements</i>		
xxxx			xxxx		
Item No.	Description	Delivery Schedule	Item No.	Description	Delivery Schedule
1	Supply, delivery, installation, testing, and commissioning of IP-CCTV Surveillance System for the DBM Central Office	Please refer to Annex A (Terms of Reference)	1	Supply, delivery, installation, testing, and commissioning of IP-CCTV Surveillance System for the DBM Central Office	Please refer to the Revised Annex A (Terms of Reference)
2	Technical Training at known Training Center for the IP-CCTV Surveillance System		2	Technical Training at known Training Center for the IP-CCTV Surveillance System	
3	Warranties and Technical Support		3	Warranties and Technical Support	
xxxx			xxxx		
			Attached is the Revised Section VI. Schedule of Requirements		

TERMS OF REFERENCE

XXXX

III. DELIVERY PERIOD

The supply, delivery, installation, testing and commissioning of IP-CCTV Surveillance System shall be within five (5) months from receipt of the Notice to Proceed (NTP)

IV. SPECIFICATIONS

4.1 Five (5) units of branded and brand new Network Video Recorder (NVR) XXXX

XXXX

4.2.1.1 2MP Ultra-low light

XXXX

4.2.2.1 2MP Ultra-low light

XXXX

4.3.1 4MP Ultra-low light

XXXX

4.4.1 2MP Ultra-low light

XXXX

4.5.1 2MP Ultra-low light

TERMS OF REFERENCE

XXXX

III. DELIVERY PERIOD

The supply, delivery, installation, testing and commissioning of IP-CCTV Surveillance System shall be within ~~five (5)~~ four (4) months from receipt of the Notice to Proceed (NTP)

IV. SPECIFICATIONS

4.1 ~~Five (5)~~ Six (6) units of branded and brand new Network Video Recorder (NVR) XXXX

XXXX

4.2.1.1 2MP ~~Ultra-low light~~ **IID camera that can provide sharp images even in low-light environment**

XXXX

4.2.2.1 2MP ~~Ultra-low light~~ **HD camera that can provide sharp images even in low-light environment**

XXXX

4.3.1 4MP ~~Ultra-low light~~ **IID camera that can provide sharp images even in low-light environment**

XXXX

4.4.1 2MP ~~Ultra-low light~~ **HD camera that can provide sharp images even in low-light environment**

XXXX

4.5.1 2MP ~~Ultra-low light~~ **HD camera that can provide sharp images even in low-light environment**

<p>xxxx</p> <p>4.6.9 Should be compatible with DBM existing Network Solution</p>	<p>xxxx</p> <p>4.6.9 Should be compatible with DBM existing Network Solution (integration, manageability, and routing)</p>
<p>xxxx</p> <p>4.7.9 Should be compatible with DBM existing Network Solution</p>	<p>xxxx</p> <p>4.7.9 Should be compatible with DBM existing Network Solution (integration, manageability, and routing)</p>
<p>xxxx</p> <p>4.8.2 Brightness: 500cd/m2</p>	<p>xxxx</p> <p>4.8.2 Brightness: 500 450cd/m2</p>
<p>xxxx</p> <p>4.9 Seven (7) units of branded and brand new 55 inch Digital Signage TV xxxx</p>	<p>xxxx</p> <p>4.9 Seven (7) Eight (8) units of branded and brand new 55 inch Digital Signage TV xxxx</p>
<p>xxxx</p> <p>4.12.2 Two (2) units of 32 RU wall-mount network cabinet with fan</p> <p>xxxx</p> <p>5.3 The CONTRACTOR shall deliver, install, test and commission the IP-CCTV Surveillance System including, but not limited to, the following, within five (5) months from the issuance of Notice to Proceed (NTP):</p> <ul style="list-style-type: none"> • Installation, roughing-in (includes the concrete cable tray from building to building), termination and testing of fiber optic cables as the backbone of 	<p>xxxx</p> <p>4.12.2 Two (2) One (1) units of 32 RU wall-mount network cabinet with fan and one (1) unit of 16 RU wall-mount network cabinet with fan. The type should be perforated metal with glass door. The contractor should determine the size that should fit the following:</p> <p>For 32 RU:</p> <ol style="list-style-type: none"> 1. 3 units of Workstation 2. 2 units of patch panel (fiber and CAT6) 3. 1 unit of 3KVA UPS <p>For 16 RU:</p> <ol style="list-style-type: none"> 1. 2 units of patch panel (fiber and CAT6) 2. 1 unit of 3KVA UPS <p>xxxx</p> <p>5.3 The CONTRACTOR shall deliver, install, test and commission the IP-CCTV Surveillance System including, but not limited to, the following, within five (5) four (4) months from the issuance of Notice to Proceed (NTP):</p> <ul style="list-style-type: none"> • Installation, roughing-in (includes the concrete cable tray, with a dimension of 190mm width x 130mm depth X 45mm thickness, from building to building,), termination and testing of fiber optic cables as the backbone of IP-CCTV Surveillance System:

IP-CCTV Surveillance System:

xxxx

5.7 The CONTRACTOR shall resolve all issues encountered/unresolved under section 5.4 to 5.6 even after the warranty ends

xxxx

5.8 xxx

Technical Training	Schedule
1. Basic and Advance Administration of IP-CCTV Surveillance System.	<ul style="list-style-type: none"> • Within three (3) months from the receipt of NTP. • Within four (4) months from the receipt of NTP. • Within five (5) months from the receipt of NTP.

xxxx

5.9 The CONTRACTOR shall provide as-built documentation of IP-CCTV Surveillance System set-up/ diagram in both hard and soft copies including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within five (5) months from the receipt of NTP.

xxxx

5.7 The CONTRACTOR shall resolve all **reported** issues encountered/unresolved under section 5.4 to 5.6 even after the warranty ends

xxxx

5.8 xxx

Technical Training	Schedule
2. Basic and Advance Administration of IP-CCTV Surveillance System.	<ul style="list-style-type: none"> • Within three (3) two (2) months from the receipt of NTP. • Within four (4) three (3) months from the receipt of NTP. • Within five (5) four (4) months from the receipt of NTP.

xxxx

5.9 The CONTRACTOR shall provide as-built documentation of IP-CCTV Surveillance System set-up/ diagram in both hard and soft copies including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within ~~five (5)~~ **four (4)** months from the receipt of NTP.

xxxx

6.1 xxxx

Component	Description
6.1.1 Delivery, Installation Testing and Commissioning	The CONTRACTOR shall deliver, install, test and commission the IP-CCTV Surveillance System including but not limited to the following within five (5) months from the issuance of NTP.
xxxx	
6.1.6 Documentation	The CONTRACTOR shall provide as- built documentation of IP-CCTV Surveillance System set-up/ diagram in both hard and soft copies including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within five (5) months from the receipt of NTP.

xxxx

6.1 xxxx

Component	Description
6.1.1 Delivery, Installation Testing and Commissioning	The CONTRACTOR shall deliver, install, test and commission the IP-CCTV Surveillance System including but not limited to the following within five (5) four (4) months from the issuance of NTP.
xxxx	
6.1.6 Documentation	The CONTRACTOR shall provide as-built documentation of IP- CCTV Surveillance System set-up/ diagram in both hard and soft copies including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within five (5) four (4) months from the receipt of NTP.


xxxx

Attached is the Revised Section VII. Technical Specifications with the Revised Annex A

Queries:	Clarifications:
1. "What is the meaning of 2 in Item 4.12.7 of the Annex A (terms of Reference)? Is it the size of the monitor?"	1. It means two monitor stands, wherein each can handle two (2) units of 24" LED monitors.
2. "How many biometric access control system and electromagnetic door lock is required under Item 4.12.11 of the Annex A?"	2. One (1) set of biometric access control and electromagnetic door lock
3. "How many ports are required for the KVM console?"	3. At least eight (8) ports are required
4. "Will the DBM give the specific allocations of each of 156 units of IP-CCTV cameras for each NVR?"	4. The contractor should allocate the numbers of IP cameras for each NVR as per IP-CCTV Surveillance System layout, subject to approval of the ICTSS Director during the work plan period.
5. "What is the required number of days of retention for the recording?"	5. The Bidders should deliver the numbers of storage for each NVR as specified in Section 4.1.14 of the TOR. Retention period will be handled by the DBM.
6. "Can the required multiple Video Analytics events be specified?"	6. Intrusion Detection and Unattended baggage/object removal
7. "Why is there a need for PoE injector if the Dome Type IP-CCTV is already supported by PoE?"	7. The another set of 16 cameras will be installed in the DBM Regional Offices which do not have any PoE switch.
8. "Will there be no monitoring room allocated for the IP Surveillance System?"	8. As specified in Section 5.3 of the TOR, the contractor should renovate the Monitoring Room. Five (5) units of 55" LED Monitor will be installed in the monitoring room, while the other two (2) will be installed in the ICTSS Network Division.

Other matters:

- The "No Contact Rule" shall be strictly observed. Bidders are not allowed to call or talk to any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective August 6, 2019 right after the opening of bids.
- For guidance and information of all concerned.



ACHILLES GERARD C. BRAVO
Assistant Secretary
Chairperson, DBM-BAC

Section VI. Schedule of Requirements

(Revised)

The delivery schedule expressed as weeks/months stipulates hereafter the date of delivery to the project site.

Item No.	Description	Quantity	Delivery Schedule
1	Supply, delivery, installation, testing, and commissioning of IP-CCTV Surveillance System for the DBM Central Office	1 lot	Please refer to the Revised Annex A (Terms of Reference)
2	Technical Training at known Training Center for the IP-CCTV Surveillance System	3	
3	Warranties and Technical Support		

I hereby certify to comply and deliver all the above requirements.

Name of Company/Bidder

Signature Over Printed Name of Representative

Date

Section VII. Technical Specifications

(Revised)

Bidders must state here either "Comply" or any equivalent term in the column "Bidder's Statement of Compliance" against each of the individual parameters of each "Specification."

Item No.	Specifications	Statement of Compliance
1.	I. General Specifications (see attached Annex A, Item 1.0) II. Products Specifications (see attached Annex A, Item 2.0) III. Execution (see attached Annex A, Item 3.0) IV. Project Deliverables (see attached Annex A, Item 4.0)	

I hereby certify to comply with all the above Technical Specifications.

Name of Company/Bidder

Signature Over Printed Name of Representative

Date

TERMS OF REFERENCE

(Revised)**I. PROJECT TITLE**

Supply, Delivery, Installation, Testing, and Commissioning of IP-CCTV Surveillance System for the DBM Central Office

II. OBJECTIVE

To replace the obsolete/existing Analog-CCTV system with the latest IP-CCTV technology that are capable with video content analytics, intrusion detection, unattended baggage detection and object removal detection. And to put additional cameras on the blind spot areas to fully monitor the whole vicinity of DBM Central Office and to secure the confidentiality of Intermediate Distribution Frame (IDF) room from unauthorized personnel.

III. DELIVERY PERIOD

The supply, delivery, installation, testing, and commissioning of IP-CCTV Surveillance System shall be within four (4) months from receipt of the Notice to Proceed (NTP).

IV. SPECIFICATIONS**4.1 Six (6) units of branded and brand new Network Video Recorder (NVR) with the following minimum specifications:**

- 4.1.1 Capable to start the recording in response to situation triggered by motion detection.
- 4.1.2 Supports multiple Video Content Analytics (VCA) events.
- 4.1.3 Must be Open Network Video Interface Forum (ONVIF) compliant (Profile S/G).
- 4.1.4 Must have a capability to export video to various formats (e.g. AVI, MP4, MJPEG).
- 4.1.5 Rack-mountable chassis.
- 4.1.6 Up to thirty two (32) units of IP Camera per NVR can be connected.
- 4.1.7 Supports decoding format H.265, H.265+, H.264, H.264+ and MPEG4
- 4.1.8 Full channel recording at up to 12MP resolution.
- 4.1.9 Should have 2 Gigabit Ethernet network interfaces.
- 4.1.10 Should have VGA and HDMI video interfaces.
- 4.1.11 Should have USB 2.0 and USB 3.0 interfaces.
- 4.1.12 Hard Disk Drive (HDD) hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage scheme configurable.
- 4.1.13 Up to 8 Serial Advanced Technology Attachment (SATA) interfaces and 1 eSATA for HDD connection.
- 4.1.14 Eight (8) x 10 TB Enterprise Grade Hard Disk Drive (HDD) for each NVR, HDD must be designed to ensure seamless video footage capture in 24x7 surveillance workloads.
- 4.1.15 AC Input Voltage: 100 – 240 V AC, 50 to 60 Hz.

4.2 Eight (8) units of branded and brand new Network Outdoor PTZ Camera with 3 channels panoramic camera and with the following minimum specifications:

- 4.2.1 PTZ Camera:
 - 4.2.1.1 2MP HD camera that can provide sharp images even in low-light environment
 - 4.2.1.2 Image Sensor of 1/2.8" progressive scan CMOS
 - 4.2.1.3 10 x optical zoom and 8 x digital zoom

- 4.2.1.4 1920X1088 (1080p) @ 30 frames per second (fps)
- 4.2.1.5 50 meters IR Range
- 4.2.1.6 Digital Wide Dynamic Range
- 4.2.1.7 Support PTZ Linkage
- 4.2.2 Three (3) Channel Panoramic Camera:
 - 4.2.2.1 2MP HD camera that can provide sharp images even in low-light environment
 - 4.2.2.2 1080p Resolution @ 30 fps
 - 4.2.2.3 Image Sensor of 1/2.8" progressive scan CMOS
 - 4.2.2.4 20 meters IR Range
 - 4.2.2.5 Digital Wide Dynamic Range
- 4.2.3 Video Compression: H.265+, H.265, H.264+, H.264, MJPEG
- 4.2.4 Video Bitrate: 256 Kbps to 8192 Kbps
- 4.2.5 3D Digital Noise Reduction
- 4.2.6 ONVIF compliant (Profile S/G)
- 4.2.7 Weather proof with Ingress Protection (IP) rating 66
- 4.2.8 Impact Protection (IK) rating 10
- 4.2.9 12 VDC Power over Ethernet (POE+ 802.3at) maximum of 27W

4.3 Fourteen (14) units of branded and brand new Bullet Type IP Camera with the following minimum specifications:

- 4.3.1 4MP HD camera that can provide sharp images even in low-light environment
- 4.3.2 1080p Resolution @ 30 fps
- 4.3.3 Video Bitrate: 256 Kbps to 8192 Kbps
- 4.3.4 2.8 to 12 mm Vari-Focal Lens
- 4.3.5 Video Compression: H.265+, H.265, H.264+, H.264, MJPEG
- 4.3.6 3D Digital Noise Reduction
- 4.3.7 80 meters IR Range
- 4.3.8 120 dB Wide Dynamic Range (WDR)
- 4.3.9 ONVIF compliant (Profile S/G)
- 4.3.10 Weather proof with Ingress Protection (IP) rating 66
- 4.3.11 Impact Protection (IK) rating 10
- 4.3.12 12 VDC and Power over Ethernet (PoE) (802.3af)
- 4.3.13 Behavior Analysis: Intrusion detection, Unattended baggage/Object removal detection

4.4 One hundred seven (107) units of branded and brand new Dome Type IP Camera with the following minimum specifications:

- 4.4.1 2MP HD camera that can provide sharp images even in low-light environment
- 4.4.2 1080p Resolution @ 30 fps
- 4.4.3 Video Bitrate: 256 Kbps to 8192 Kbps
- 4.4.4 2.8 to 12 mm Vari-Focal Lens
- 4.4.5 Video Compression: H.265+, H.265, H.264+, H.264, MJPEG
- 4.4.6 3D Digital Noise Reduction
- 4.4.7 30 meters IR Range
- 4.4.8 120 dB Wide Dynamic Range (WDR)
- 4.4.9 ONVIF compliant (Profile S/G)
- 4.4.10 Weather proof with Ingress Protection (IP) rating 66
- 4.4.11 Impact Protection (IK) rating 10
- 4.4.12 12 VDC and Power over Ethernet (PoE) (802.3af)
- 4.4.13 Behavior Analysis: Intrusion detection, Unattended baggage/Object removal detection

4.5 Sixteen (16) units of branded and brand new Dome Type IP Camera with the following minimum specifications:

- 4.5.1 2MP HD camera that can provide sharp images even in low-light environment
- 4.5.2 1080p Resolution @ 30 fps
- 4.5.3 2.8 to 12 mm Vari-Focal Lens
- 4.5.4 Video Bitrate: 256 Kbps to 8192 Kbps
- 4.5.5 Video Compression: H.265+, H.265, H.264+, H.264, MJPEG
- 4.5.6 3D Digital Noise Reduction
- 4.5.7 30 meters IR Range
- 4.5.8 120 dB Wide Dynamic Range (WDR)
- 4.5.9 ONVIF compliant (Profile S/G)
- 4.5.10 Weather proof with Ingress Protection (IP) rating 66
- 4.5.11 Impact Protection (IK) rating 10
- 4.5.12 12 VDC and Power Over Ethernet (PoE) (802.3af)
- 4.5.13 128 GB on-board storage Micro SD/SDHC/SDXC (class 10)
- 4.5.14 Power over Ethernet (PoE) Injector:
 - AC Input Voltage: 100-240 V AC, 50 to 60 Hz
 - PoE Output: 15.4W / 48 V DC
 - Ideal for use with IP cameras, delivers power up to 100 feet
 - Auto-detects the required power supply
 - Plug and Play, no configuration required
 - Data Rates: 10/100 Mbps

4.6 Twelve (12) units of branded and brand new 24 ports Power over Ethernet (POE) Network Switch with the following minimum specifications:

- 4.6.1 Rack-mountable Layer 2 switch.
- 4.6.2 4 x 10 Gigabit Small Form-Factor Pluggable Plus (SFP+) uplinks.
- 4.6.3 Forty (40) units of short range transceiver SFP-10G-SR.
- 4.6.4 Twenty-four (24) 10/100/1000 Ethernet Ports.
- 4.6.5 Support both IEEE 802.3af Power over Ethernet (PoE) and IEEE 802.3at PoE+ (up to 30W per port).
- 4.6.6 Perpetual PoE support with a power up to 740W.
- 4.6.7 Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- 4.6.8 Standard 802.1d Spanning Tree support
- 4.6.9 Should be compatible with DBM existing Network Solution (integration, manageability and routing)

4.7 Two (2) units of branded and brand new 12 ports 10G SFP+ Switch with the following minimum specifications:

- 4.7.1 Rack-mountable and Stackable Layer 3 switch.
- 4.7.2 12 x 10 Gigabit Small Form-Factor Pluggable Plus (SFP+)
- 4.7.3 Eight (8) units of long range transceiver SFP-10G-LR
- 4.7.4 Eight (8) units of short range transceiver SFP-10G-SR
- 4.7.5 Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- 4.7.6 Standard 802.1d Spanning Tree support
- 4.7.7 Stackwise and stackpower cables
- 4.7.8 Redundant Hot-swappable Power Supply
- 4.7.9 Should be compatible with DBM existing Network Solution (integration, manageability and routing).

4.8 Seven (7) units of branded and brand new 55 inch Digital Signage TV with the following minimum specifications:

- 4.8.1 Ultra HD Resolution (3840x2160)
- 4.8.2 Brightness: 450cd/m2
- 4.8.3 Panel Technology: In-Plane Switching (IPS)
- 4.8.4 Internal Memory: 8GB (System 4GB + Available 4GB)
- 4.8.5 Connectivity Input: HDMI /HDCP2.2, DP /HDCP1.3, RGB/DVI
- 4.8.6 HDTV Formats: 720p, 1080i, 1080p, 2160p
- 4.8.7 Power Supply: 100-240V~, 50/60Hz
- 4.8.8 Quick lock push Video Wall Mounting System

4.9 Eight (8) units of branded and brand new Client Workstation that are capable to operate 24/7 with the following minimum specifications:

- 4.9.1 8th generation Intel Core i7 - 3.2 GHZ Processor.
- 4.9.2 16GB DDR4 2133/2400MHz memory.
- 4.9.3 2 Terabyte Solid State Hybrid Drive.
- 4.9.4 PCIe Quad Monitor Video Card 6GB GDDR5
- 4.9.5 Digital Video Disc Drive DVD-RW 24X SATA
- 4.9.6 24" LED Monitor
- 4.9.7 USB Keyboard and Mouse
- 4.9.8 10/100/1000 Gigabit Ethernet
- 4.9.9 Windows 10 Professional/Enterprise Edition 64 bit
- 4.9.10 Video Management Software

4.10 One (1) unit of branded and brand new Keyboard, Video, Mouse (KVM) Console with the following minimum specifications:

- 4.10.1 USB KVM cables
- 4.10.2 Standard Keyboard Layout
- 4.10.3 Form Factor: 1U 17" Rackmount LED Monitor
- 4.10.4 Graphics display resolution of at least 1366 X 768
- 4.10.5 On Screen Display (OSD) menu
- 4.10.6 Video – Standard VGA with resolution of at least 1280x1024 WXGA

4.11 Two (2) units of branded and brand new Uninterrupted Power Supply (UPS) with the following specifications:

- 4.11.1 2100 Watts/ 3000VA, Input /Output 220V, 2U rack mountable UPS.
- 4.11.2 LCD status Display that will provide key UPS status at a glance.
- 4.11.3 Automatic voltage regulation that gives higher application availability by correcting low and high voltage conditions without using the battery.
- 4.11.4 Power conditioning that will protect connected loads from surges, spikes, lightning, and other power disturbance.
- 4.11.5 Audible alarms to know if the unit is on battery, if the battery is low or in there is an overload condition.
- 4.11.6 Resettable circuit breakers that enable a quick recovery from overload events.
- 4.11.7 Battery failure notification that will provide early-warning fault on batteries enabling timely preventive maintenance.
- 4.11.8 Hot-swappable batteries to ensure uninterrupted power to protected equipment while batteries are being replaced.

4.12 Other required materials but not limited to the following:

- 4.12.1 One (1) unit of branded and brand new 3 HP split type inverter airconditioner.
- 4.12.2 One (1) unit of 32 RU wall-mount network cabinet with fan and One (1) unit of 16 RU wall-mount network cabinet with fan. The type should be perforated metal with glass door. The Contractor should determine the size that should fit the following:
For 32 RU:
 - 1. 3 units of Workstation
 - 2. 2 units of patch panel (fiber and CAT6)
 - 3. 1 unit of 3KVA UPS
 For 16 RU:
 - 1. 2 units of patch panel (fiber and CAT6)
 - 2. 1 unit of 3KVA UPS
- 4.12.3 Twelve (12) units of 24 ports Cat6 Rackmountable Patch Panel including the patch cables
- 4.12.4 One (1) unit of 24 ports Rackmountable Fiber Patch Panel with LC couplers (Single-mode and Multi-Mode)
- 4.12.5 Twelve (12) units of 12 ports Rackmountable Fiber Patch Panel with Multi-mode LC couplers
- 4.12.6 Forty (40) units of 2M LC to LC fiber patch cord.
- 4.12.7 Four (4) units of 2 screen monitor stand.
- 4.12.8 Wires/cable and termination such as Fiber Optic Cable (800 meters to 1,000 meters Armored OS2 Single-Mode, 8-core) and (OM3 Multi-Mode, 4-core), HDMI/VGA cables, UTP Cable Category 6, RJ 45, terminal box and keystone jack.
- 4.12.9 Roughing-in materials such as cable trays, cable ties, moldings, EMT pipes, connectors, junction boxes, hangers and support.
- 4.12.10 Electrical materials such as terminal lugs, electrical panel and breakers.
- 4.12.11 Biometric access control system with atleast 64 GB Micro SD/SDHC/SDXC (class 10) and electro magnetic door lock.
- 4.12.12 Carpentry/masonry materials such as studs, tracks, hardiflex, rivet, door frame, door, door knob, putty and paints.

V. SCOPE OF WORK

- 5.1 The CONTRACTOR shall conduct pre-implementation meeting with DBM representatives so that all the necessary preparations, ideal set-up, contractor's familiarization, and other implementation matters are clearly discussed and finalized;
- 5.2 The CONTRACTOR shall provide a work-plan of activities for the duration of the project and a Deployment and/or Solution Architecture within a week from the pre-implementation meeting with DBM representatives. Said work-plan shall be validated and subject for approval of designated DBM official.
- 5.3 The CONTRACTOR shall deliver, install, test and commission the IP-CCTV Surveillance System including but not limited to the following within four (4) months from the issuance of Notice to Proceed (NTP):
 - Installation, roughing-in (includes the concrete cable tray, with a dimension of 190mm width x 130mm depth X 45mm thickness, from building to building,), termination and testing of fiber optic cables as the backbone of IP-CCTV Surveillance System:

FROM	TO	TYPE OF CABLE
ARCACHE Building	DBM Data Center	Armored OS2 Single-Mode, 8 cores
DBM Building 1	DBM Data Center	OM3 Multi-Mode, 4 cores
DBM Building 3	DBM Data Center	OM3 Multi-Mode, 4 cores
DMB Gymnasium	DBM Building 3	OM3 Multi-Mode, 4 cores

DBM Building 2 IDF's (1 st , 2 nd , 3 rd and 4 th floor)	DBM Data Center	OM3 Multi-Mode, 4 cores
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- Installation, roughing-in and termination of UTP cables, patch panel and network switches (from the designated location of camera to IDF).
- Installation of electrical panels, breakers, lugs, wires and roughing-in materials for electrical supply lapping from nearest source.
- Installation, configuration and commissioning of IP Cameras, NVRs and Client Workstations. Positioning and focusing of cameras shall be subject for approval of designated DBM official.
- All minor masonry, carpentry, civil works, paintings and restoration.
- Renovation of Monitoring Room, installation of video wall mounting system, biometric door lock and 3HP split type air-conditioning unit.
- Dismantling of existing cameras, cables and all other components of CCTV (after the new Surveillance System was already installed and operational).

Any other item not mentioned but required to complete the IP Surveillance System will be in the scope of work of contractor without any additional cost to DBM.

The CONTRACTOR must have the following Certified Professionals for the IP-CCTV Surveillance System installation, configuration, testing and commissioning: (certificates must be submitted in the submission of bid documents and subject for post qualification)

- Manufacturer-Certified IP-CCTV Surveillance Administrator and/or Professional;
- Manufacturer-Certified Network Associate and/or Professional.

A Certificate of Acceptance shall be issued by the Director of Information and Communication Technology Systems Service (ICTSS).

- 5.4 The CONTRACTOR shall provide/render twenty-four hours a day, seven days a week (24x7) technical support service during warranty period, as specified in Section 7.9 of this TOR. Technical support can be delivered in a form of telephone call, electronic mail, and/or on-site support.

The CONTRACTOR shall resolve every problem on software and hardware components within four (4) hours after it was reported during the warranty period. It shall refer to a condition wherein the reported problem is resolved by the CONTRACTOR to the satisfaction of the DBM. Problem and resolution shall be logged in the DBM Help Desk Facility.

- 5.5 The CONTRACTOR shall replace the defective parts/accessories of the same or better brand, model features, quality and functionalities if not repaired within the allowable resolution time of four (4) working hours during the warranty period at no additional cost to the DBM.

- 5.6 The CONTRACTOR shall provide service unit of at least the same brand, model, features and functionalities or its equivalent in case of equipment breakdown at no additional cost to the DBM. The service unit shall be made available and operational within (4) working hours from the time the problem has been reported by the DBM for the equipment undergoing repair during the warranty period.

However, mandatory replacement of defective unit with a brand new unit of the same or better brand or model shall be made, if not repaired beyond one (1) month from the time the service unit was provided, at no additional cost to the DBM.

- 5.7 The CONTRACTOR shall resolve all reported issues encountered/unresolved under section 5.4 to 5.6 even the warranty ends.

- 5.8 The CONTRACTOR shall provide Technical Training at known Training Center for the IP-CCTV Surveillance System based on the following schedule:

Technical Training	Schedule	No. of Participants	Duration
3. Basic and Advance Administration of IP-CCTV Surveillance System.	<ul style="list-style-type: none"> • Within two (2) months from the receipt of NTP. • Within three (3) months from the receipt of NTP. • Within four (4) months from the receipt of NTP. 	At least five (5) participants per conduct.	Minimum of two(2) days

The CONTRACTOR shall issue individual training certificates and training materials for each of the participants.

A Certificate of Acceptance shall be issued by the Director of Information and Communication Technology Systems Service (ICTSS).

- 5.9 The CONTRACTOR shall provide as-built documentation of IP-CCTV Surveillance System set-up/ diagram in both hard and soft copies including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within four (4) months from the receipt of NTP.

A Certificate of Acceptance shall be issued by the Director of Information and Communication Technology Systems Service (ICTSS).

VI. SERVICE LEVEL AGREEMENT

- 6.1 DBM shall maintain a Service Level Agreement (SLA) with the CONTRACTOR, with provisions for liquidated damages for their non-compliance.

Component	Description	Liquidated Damages
6.1.1 Delivery, Installation Testing and Commissioning	The CONTRACTOR shall deliver, install, test and commission the IP-CCTV Surveillance System including but not limited to the following within four (4) months from the issuance of NTP.	One percent (1%) of the total contract price shall be imposed per day of delay.
6.1.2 Technical Support	The CONTRACTOR shall resolve every problem on software and hardware components within four (4) hours after it was reported during the warranty period. It shall refer to a condition wherein the reported problem is resolved by the CONTRACTOR to the satisfaction of the DBM.	1/10 th of 1% of the total contract price shall be imposed for every hour of delay. Said penalty shall be deducted from the special bank guarantee.
6.1.3 Replacement of Parts	The CONTRACTOR shall replace the defective parts/accessories of the same or better brand, model features, quality and functionalities if not repaired within the allowable resolution time of four (4) working hours during the warranty period at no additional cost to the DBM.	1/10 th of 1% of the total contract price shall be imposed for every hour of delay. Said penalty shall be deducted from the special bank guarantee.

6.1.4 Service Unit	The CONTRACTOR shall provide service unit of at least the same brand, model, features and functionalities or its equivalent in case of equipment breakdown at no additional cost to the DBM. The service unit shall be made available and operational within (4) working hours from the time the problem has been reported by the DBM for the equipment undergoing repair during the warranty period.	1/10 th of 1% of the total contract price shall be imposed for every hour of delay. Said penalty shall be deducted from the special bank guarantee.
6.1.5 Technical Training	The CONTRACTOR shall provide Technical Training for the Basic and Advance Administration of IP-CCTV Surveillance System within the specified schedules.	1/10 th of 1% of the total contract price shall be imposed per day of delay.
6.1.6 Documentation	The CONTRACTOR shall provide as-built documentation of IP-CCTV Surveillance System set-up/ diagram in both hard and soft copies including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within four (4) months from the receipt of NTP.	1/10 th of 1% of the total contract price shall be imposed per day of delay.

VII. WARRANTIES OF THE CONTRACTOR

- 7.1 The CONTRACTOR warrants that it shall conform strictly to the terms and conditions of this TOR.
- 7.2 The CONTRACTOR warrants, represents and undertakes reliability of the services and that their manpower complements are hardworking, qualified/reliable and dedicated to do the service required to the satisfaction of the DBM. It shall employ well-behaved and honest employees with ID displayed conspicuously while working within the compound. It shall not employ DBM employees to work in any category whatsoever.
- 7.3 The CONTRACTOR in the performance of its services shall secure, maintain at its own expense all registration, licenses or permits required by National or Local Laws and shall comply with the rules, regulations and directives of Regulatory Authorities and Commissions. The CONTRACTOR undertakes to pay all fees or charges payable to any instrumentality of government or to any other duly constituted authority relating to the use or operation of the installation.
- 7.4 The CONTRACTOR's personnel shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices.
- 7.5 The CONTRACTOR shall coordinate with the authorized and/or designated DBM personnel in the performance of their jobs.
- 7.6 The CONTRACTOR shall be liable for loss, damage or injury due directly or indirectly through the fault or negligence of its personnel. It shall assume full responsibility thereof and the DBM shall be specifically released from any and all liabilities arising therefrom.

- 7.7 The CONTRACTOR shall not assign, transfer, pledge, or sub-contract any part or interest therein.
- 7.8 The CONTRACTOR shall identify the technical support personnel that will be given authority to access and operate the IP-CCTV Surveillance System. DBM shall be informed thru a formal notice on the change or replacement of technical personnel five (5) days prior the actual rendering of technical support services.
- 7.9 The CONTRACTOR shall provide a one (1) - year comprehensive warranty which shall include support, provision of service unit and parts replacement for the hardware/appliance which shall be covered by special bank guarantee equivalent to 10% of the total contract price. The said amount shall be released after the lapse of the warranty period. Provided, however that the goods supplied are free from patent and latent defect and all conditions imposed under the contract have been fully met.

The warranty shall commence on the day the DBM issues the Certificate of Acceptance.

VIII. CONFIDENTIALITY OF DATA

- 8.1 All project personnel of CONTRACTOR shall be required to sign a Non-Disclosure Agreement (NDA).
- 8.2 The CONTRACTOR agrees to hold the Proprietary Information in strict confidence. The CONTRACTOR furthermore agrees not to reproduce, translate or disclose the Proprietary Information to 3rd parties without prior written approval of the DBM.

IX. TERMS OF PAYMENT

- 9.1 The CONTRACTOR shall be paid upon completion of delivery, installation, testing and commissioning of IP-CCTV Surveillance System subject to the required Final Withholding VAT (Services) of five percent (5%) and Expanded Withholding Tax of two percent (2%).
- 9.2 Payment shall be made within a reasonable time from the submission of the documentary requirements such as, but not limited to the following, based on existing accounting and auditing laws, rules and regulations:
- 9.2.1 Delivery Receipts
 - 9.2.2 Sales Invoice/Billings
 - 9.2.3 Certificate of Acceptance for the following:
 - Delivery, installation, testing and commissioning
 - Technical Training
 - Documentation
 - 9.2.4 Non-Disclosure Agreement
- 9.3 No advance payment shall be made as provided for in Section 88 of PD 1445.

X. PRE-TERMINATION OF CONTRACT

- 10.1 The contract for the Procurement of IP-CCTV Surveillance System may be pre-terminated by the DBM for any violation of the terms of the contract. In case of pre-termination, the CONTRACTOR shall be informed by the DBM thirty (30) days prior to such pre-termination.
- 10.2 In case of pre-termination, the CONTRACTOR shall be liable to an additional liquidated damages equivalent to one percent (1%) of the contract price as provided by the Government Accounting Manual (GAM) and forfeiture of the Performance Security.

10.3 The DBM shall have the right to blacklist the CONTRACTOR in case of pre-termination.