



HEADQUARTERS
PHILIPPINE ARMY
OFFICE OF THE PHILIPPINE ARMY BIDS AND AWARDS COMMITTEE 2
Fort Andres Bonifacio, Taguig City

22 January 2024

Supplemental Bid Bulletin No. 1

SIG PABAC2-017-23
Procurement of One (1) Lot CCTV Equipment

1. This Supplemental Bid Bulletin is issued to inform prospective bidders to the amendments/inclusions that shall form part of the bidding documents for the **Procurement of One (1) Lot CCTV Equipment**:

	Reference	Amendments/Inclusions
<p>Section III. Bid Datasheet Page</p> <p>Page 17.</p>	<p><i>For item 1, #2, Certified Telco Grade Cable Installers.</i></p>	<p><i>For item 1, #2, Certified Telco Grade Cable Installers.</i></p> <p><i>Note: Third-party organizations that are authorized to issue certificates in favor of the Telco Grade Cable Installers pertain to entities other than the cable installers' employer.</i></p>
<p>Section V. Special Conditions of the Contract</p>	<p>x x x</p> <p>Incidental Services -</p> <p>The Supplier is required to provide all of the following services, including additional services specified in Section VI. Schedule of Requirements, if any:</p> <ul style="list-style-type: none"> - operations manual; - performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; - training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, on assembly, start-up, operation, maintenance, and/or repair 	<p>x x x</p> <p>Incidental Services -</p> <p>The Supplier is required to provide all of the following services, including additional services specified in Section VI. Schedule of Requirements, if any:</p> <ul style="list-style-type: none"> - performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; - The bidder must present a certificate of site inspection certified by the End-User. - Installation and Commissioning of CCTV System with the presence of

HONOR. PATRIOTISM. DUTY.

	<p>of the supplied Goods.</p> <ul style="list-style-type: none"> - The bidder must present a certificate of site inspection certified by the End-User. - Installation and Commissioning of CCTV System with the presence of the following: <p>A. at least one (1) Certified Internetwork Expert to serve as the implementation engineer, with a minimum of 15 years of experience as such; and</p> <p>B. at least two (2) Certified Telco Grade Cable installers.</p> <p>X X X</p>	<p>the following:</p> <p>A. at least one (1) Certified Internetwork Expert to serve as the implementation engineer, with a minimum of 15 years of experience as such; and</p> <p>B. at least two (2) Certified Telco Grade Cable installers.</p>												
<p>Section VI. Schedule of Requirements</p>	<p>X X X</p> <table border="1" data-bbox="363 907 874 2058"> <thead> <tr> <th>ITEM NR</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>xxx</td> </tr> <tr> <td>2</td> <td> <ul style="list-style-type: none"> - operations manual; - performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and - training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. - The bidder must present a certificate of site inspection certified by the End-User. - Installation and Commissioning of CCTV System with the presence of the following: <ul style="list-style-type: none"> A. At least one (1) Certified Internetwork Expert on Enterprise Infrastructure for at least 15 years that will function as implementation </td> </tr> </tbody> </table>	ITEM NR	Description	1	xxx	2	<ul style="list-style-type: none"> - operations manual; - performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and - training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. - The bidder must present a certificate of site inspection certified by the End-User. - Installation and Commissioning of CCTV System with the presence of the following: <ul style="list-style-type: none"> A. At least one (1) Certified Internetwork Expert on Enterprise Infrastructure for at least 15 years that will function as implementation 	<p>XXX</p> <table border="1" data-bbox="933 907 1444 1422"> <thead> <tr> <th>ITEM NR</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>xxx</td> </tr> <tr> <td>2</td> <td> <ul style="list-style-type: none"> - Three (3) copies of operations manual; and - training of the Procuring Entity's six (6) personnel, minimum number of forty-eight (48) hours on setup and configuration of ICT at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods after the </td> </tr> </tbody> </table>	ITEM NR	Description	1	xxx	2	<ul style="list-style-type: none"> - Three (3) copies of operations manual; and - training of the Procuring Entity's six (6) personnel, minimum number of forty-eight (48) hours on setup and configuration of ICT at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods after the
ITEM NR	Description													
1	xxx													
2	<ul style="list-style-type: none"> - operations manual; - performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and - training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. - The bidder must present a certificate of site inspection certified by the End-User. - Installation and Commissioning of CCTV System with the presence of the following: <ul style="list-style-type: none"> A. At least one (1) Certified Internetwork Expert on Enterprise Infrastructure for at least 15 years that will function as implementation 													
ITEM NR	Description													
1	xxx													
2	<ul style="list-style-type: none"> - Three (3) copies of operations manual; and - training of the Procuring Entity's six (6) personnel, minimum number of forty-eight (48) hours on setup and configuration of ICT at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods after the 													

engineer.
B. Minimum of two (2)
Certified Telco-Grade
Cable installers.

implementation of the
project.

Technical Specifications

2.10 Monitoring Screen

2.8 POWER OVER ETHERNET SWITCH	
Port Count	• At least 8 Gigabit Ethernet ports with POE Support
Data Transfer Rates	• Up to 1000 Mbps (full duplex)
Standards	• IEEE 802.3 AF/AT camera can reach up to 300m
Security	• Supports 802.1x, port security, 6kv surge protection to POE ports
2.9 MEDIA CONVERTER	
Interface	• 10/100/1000 Base-T Copper Port, 1x 100/1000 Base-X SFP slot
I/O ports	• Store – and – forward
Data Transfer Rate	• 10/100/1000 Mbps
Protocol Support	• IEEE 802.3, 802.3n, 802.3ab
Fiber Optic Support	• Multimode or Single mode Fiber (dependent to SFP module)
2.10 MONITORING SCREEN	
Screen Type	• At least Smart TV systems (LED Type)

Page 3 of 5

2.10 Monitoring Screen removed from blue box.

ARMY 2040: WORLD CLASS. MULTI-MISSION READY. CROSS-DOMAIN CAPABLE.

Standards	• IEEE 802.3 AF/AT camera can reach up to 300m
Security	• Supports 802.1x, port security, 6kv surge protection to POE ports
Power Input	• 100 to 240V AC, 50/60 Hz
2.4 EXTENSION SOFTWARE	
	• Support 84 screen
2.5 DATA CABINET	
	• Rack Units: 12U
2.6 MANAGEMENT SOFTWARE	
Type	• IP Surveillance Software
2.7 SYSTEM CONTROLLER	
I/O Ports	• 3G-SDI active through output, 5 x RS-422, LAN PoE+, 2 x GPIOs
Controls	• Intuitive design elements based on Direct feedback • Simplified PTZ camera presets and tracing memory
2.8 POWER OVER ETHERNET SWITCH	
Port Count	• At least 8 Gigabit Ethernet ports with POE Support
Data Transfer Rates	• Up to 1000 Mbps (full duplex)
Standards	• IEEE 802.3 AF/AT camera can reach up to 300m
Security	• Supports 802.1x, port security, 6kv surge protection to POE ports
2.9 MEDIA CONVERTER	
Interface	• 10/100/1000 Base-T Copper Port, 1x 100/1000 Base-X SFP slot
I/O ports	• Store – and – forward
Data Transfer Rate	• 10/100/1000 Mbps
Protocol Support	• IEEE 802.3, 802.3n, 802.3ab
Fiber Optic Support	• Multimode or Single mode Fiber (dependent to SFP module)
2.10 MONITORING SCREEN	
Screen Type	• At least Smart TV systems (LED Type)

Page 3 of 5
Procurement of CCTV Camera and End-Devices

Section VII.
Technical
Specifications

Technical Specifications

2.15 GI Pipe

ARMY 2040: WORLD CLASS. MULTI-MISSION READY. CROSS-DOMAIN CAPABLE.

2.10 MONITORING SCREEN	
Screen Type	• At least Smart TV systems (LED Type)
Screen Size	• Range from 40 inches to 70 inches display size
Screen Resolution	• Up to 4K 3840x2160
Aspect Ratio	• At least 16:9 ratio
Motion Rate	• Ranges from 60 to 120 Hz
Viewing Angle	• Up to 178 Degrees
I/O Ports	• At least 4x HDMI, 2x USB
2.11 CABLING/WIRING FOR CONNECTIVITY	
Cable Type	• Single core drop cable
Durability	• 3 steel wire
2.12 UNSHIELDED TWISTER PAIR (UTP) CABLES	
Cable Type	• Cat6 Pure Copper
Data Rate	• Up to 10 Gbps
2.13 Fiber Optic Toolkit	
Wire stripper	• Strippable 1-core/2-core
Cutter	• Automatic spring back, smooth cutting
2.14 6TB/10TB HDD	
Connectivity	• SATA
Digital storage capacity	• 6TB/10TB
Performance	• 3.5 inch SATA 6 GB/s 7200 RPM 256MB • Must be surveillance grade HDD
2.15 GI pipe	
Diameter	• 88.9mm
Thickness	• 3.0mm
length	• 12m
2.16 Single Core Fiber Optic Cable	
Core/Cladding	• 9/125 µm
Bandwidth	• Up to 100,000 GHZ
Distance (determined by cable, equipment & data protocol)	• Typically over 2km
benefits	• Lower loss • High signal quality • High bandwidth

Page 4 of 5
Procurement of CCTV Camera and End-Devices

2.15 GI Pipe removed from Blue Box

ARMY 2040: WORLD CLASS. MULTI-MISSION READY. CROSS-DOMAIN CAPABLE.

2.10 MONITORING SCREEN	
Screen Type	• At least Smart TV systems (LED Type)
Screen Size	• Range from 40 inches to 70 inches display size
Screen Resolution	• Up to 4K 3840x2160
Aspect Ratio	• At least 16:9 ratio
Motion Rate	• Ranges from 60 to 120 Hz
Viewing Angle	• Up to 178 Degrees
I/O Ports	• At least 4x HDMI, 2x USB
2.11 CABLING/WIRING FOR CONNECTIVITY	
Cable Type	• Single core drop cable
Durability	• 3 steel wire
2.12 UNSHIELDED TWISTER PAIR (UTP) CABLES	
Cable Type	• Cat6 Pure Copper
Data Rate	• Up to 10 Gbps
2.13 Fiber Optic Toolkit	
Wire stripper	• Strippable 1-core/2-core
Cutter	• Automatic spring back, smooth cutting
2.14 6TB/10TB HDD	
Connectivity	• SATA
Digital storage capacity	• 6TB/10TB
Performance	• 3.5 inch SATA 6 GB/s 7200 RPM 256MB • Must be surveillance grade HDD
2.15 GI pipe	
Diameter	• 88.9mm
Thickness	• 3.0mm
length	• 12m
2.16 Single Core Fiber Optic Cable	
Core/Cladding	• 9/125 µm
Bandwidth	• Up to 100,000 GHZ
Distance (determined by cable, equipment & data protocol)	• Typically over 2km
benefits	• Lower loss • High signal quality • High bandwidth

Page 4 of 5
Procurement of CCTV Camera and End-Devices

**Added from Blue Box item nr 21.
Galvanized Iron Pipe, 4 inches,
Schedule 20, 8 feet length.**

ARMY 2040: WORLD CLASS. MULTI-MISSION READY. CROSS-DOMAIN CAPABLE.

12. Fiber Optic Patch Cord, SC to SC, Single Mode, Duplex	<ul style="list-style-type: none"> Connector Types: SC to SC Mode: Single mode Configuration: Duplex
13. Optical Distribution Frame, 12 Port, SC Connector	<ul style="list-style-type: none"> Port Count: 12 Connector Type: SC
14. Optical Distribution Frame, 24 Port, SC Connector	<ul style="list-style-type: none"> Port Count: 24 Connector Type: SC
15. Optical Distribution Frame, 4 Port, SC Connector	<ul style="list-style-type: none"> Port Count: 4 Connector Type: SC
16. Optical Distribution Frame, 48 Port, SC Connector	<ul style="list-style-type: none"> Port Count: 48 Connector Type: SC
17. Polyvinyl Chloride Pipe, 4 inches	<ul style="list-style-type: none"> Diameter: 4 inches
18. Polyvinyl Chloride Pipe, 3 inches	<ul style="list-style-type: none"> Diameter: 3 inches
19. Polyvinyl Chloride Pipe, 2 inches	<ul style="list-style-type: none"> Diameter: 2 inches
20. Polyvinyl Chloride Pipe, 1 inch	<ul style="list-style-type: none"> Diameter: 1 inch
21. Galvanized Iron Pipe, 4 inches, Schedule 20, 8 feet length	<ul style="list-style-type: none"> Diameter: 4 inches Schedule: 20 Length: 8 feet Material: Galvanized iron
22. Galvanized Iron Pipe, 3 inches, Schedule 20, 8 feet length	<ul style="list-style-type: none"> Diameter: 3 inches Schedule: 20 Length: 8 feet Material: Galvanized iron
23. Galvanized Iron Pipe, 2 inches, Schedule 20, 8 feet length	<ul style="list-style-type: none"> Diameter: 2 inches Schedule: 20 Length: 8 feet Material: Galvanized iron
24. Stainless Steel Strapping Band	<ul style="list-style-type: none"> Manufacturer's standard
25. Stainless Steel Strapping Band Buckles	<ul style="list-style-type: none"> Manufacturer's standard
26. Conduit Metal U Clamp Double Hole 2 1/2" Heavy Duty	<ul style="list-style-type: none"> Diameter: 2 1/2 inches Type: Double hole U clamp Function: Heavy duty Material: Steel
27. Conduit Metal U Clamp Double Hole 3 1/2" Heavy Duty	<ul style="list-style-type: none"> Diameter: 3 1/2 inches Type: Double hole U clamp Function: Heavy duty Material: Steel
28. Conduit Metal U Clamp Double Hole 4 1/2" Heavy Duty	<ul style="list-style-type: none"> Diameter: 4 1/2 inches Type: Double hole U clamp Function: Heavy duty Material: Steel
29. Data Cabinet 6U	<ul style="list-style-type: none"> Rack Units: 6U
30. Data Cabinet 9U	<ul style="list-style-type: none"> Rack Units: 9U
31. Internet Protocol Phone	<ul style="list-style-type: none"> Compatible with XORCOM IP PBX

11. Fiber Optic Patch Cord

11. Fiber Optic Patch Cord, SC to LC, Single Mode, Duplex	<ul style="list-style-type: none"> Connector Types: SC to LC Mode: Single mode Configuration: Duplex
---	---

1.1.1. ***

11. Fiber Optic Patch Cord, SC to LC, Single Mode, Duplex removed from blue box

TECHNICAL SPECIFICATIONS FOR CABLE FACILITIES FOR AARM

Description:	AARM's cable facility components
Application:	Used to construct and maintain ethernet networking and infrastructure systems for AARM.
TECHNICAL DATA	MINIMUM REQUIREMENTS
1. 3-meter Category 6 Flat Ethernet Network LAN Cable, RJ45 connector	<ul style="list-style-type: none"> Cable Type: Category 6 Length: 3 meters Connector Type: RJ45
2. Cable Manager	<ul style="list-style-type: none"> Size: 1U Design: Finger Duct
3. Category 6 Ethernet Wall Plate, 1 port with IO Jack	<ul style="list-style-type: none"> Ports: 1 Connector Type: IO Jack Compatibility: Category 6 Ethernet
4. Category 6 Ethernet Wall Plate, 2 ports with IO Jack	<ul style="list-style-type: none"> Ports: 2 Connector Type: IO Jack Compatibility: Category 6 Ethernet
5. Category 6 Unshielded Twisted Pair Cable, 305 meters	<ul style="list-style-type: none"> Cable Type: Category 6 UTP Length: 305 meters
6. Fiber Optic Cable, 16 Core Single Mode, Armored	<ul style="list-style-type: none"> Core Count: 16 Mode: Single mode Type: Armored
7. Fiber Optic Cable, 16 Core Single Mode, Armored, Figure 8	<ul style="list-style-type: none"> Core Count: 16 Mode: Single mode Type: Armored Configuration: Figure 8
8. Fiber Optic Cable, 4 Core Single Mode, Armored	<ul style="list-style-type: none"> Core Count: 4 Mode: Single mode Type: Armored
9. Fiber Optic Cable, 48 Core Single Mode, Armored	<ul style="list-style-type: none"> Core Count: 48 Mode: Single mode Type: Armored
10. Fiber Optic Cable, 8 Core Single Mode, Armored	<ul style="list-style-type: none"> Core Count: 8 Mode: Single mode Type: Armored
11. Fiber Optic Patch Cord, SC to LC, Single Mode, Duplex	<ul style="list-style-type: none"> Connector Types: SC to LC Mode: Single mode Configuration: Duplex

Annex 6-A Schedule of Requirements	<table border="1"> <thead> <tr> <th>ITEM NR</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>XXX1</td> <td>XXX</td> </tr> </tbody> </table>	ITEM NR	Description	XXX1	XXX	<table border="1"> <thead> <tr> <th>ITEM NR</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>XXX</td> </tr> <tr> <td>2</td> <td>- Three (3) copies of operations manual; and - training of the Procuring Entity's six (6) personnel, minimum number of forty-eight (48) hours on setup and configuration of ICT at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods after the implementation of the project.</td> </tr> </tbody> </table>	ITEM NR	Description	1	XXX	2	- Three (3) copies of operations manual; and - training of the Procuring Entity's six (6) personnel, minimum number of forty-eight (48) hours on setup and configuration of ICT at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods after the implementation of the project.
	ITEM NR	Description										
XXX1	XXX											
ITEM NR	Description											
1	XXX											
2	- Three (3) copies of operations manual; and - training of the Procuring Entity's six (6) personnel, minimum number of forty-eight (48) hours on setup and configuration of ICT at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods after the implementation of the project.											
	<p><i>Bullet Camera</i></p> <p>- Resolution • At least 6MP (2952 x 1944 pixels)</p> <p>Section VII. Technical Specifications Page 30</p>	<p><i>Bullet Camera</i></p> <p>- Resolution • At least 6MP (2952 x 1944 pixels)</p> <p>Note: 6MP is the required minimum resolution.</p>										
	<p><i>Bullet Camera</i></p> <p>Power • 12V DC or AC power</p> <p>Section VII. Technical Specifications Page 30.</p>	<p><i>Bullet Camera</i></p> <p>Power • 12V DC or AC power</p> <p>Note: There is no allocated POE switch for the CCTV.</p>										
	<p><i>Bullet Camera</i></p> <p>- IP67 Rated</p> <p>Section VII. Technical Specifications Page 30.</p>	<p><i>Bullet Camera</i></p> <p>- IP67 Rated</p> <p>Note: Considering the environment/area of installation, IP67 is the required minimum, any lower rating option will not be accepted.</p>										
	<p><i>Bullet Camera</i></p> <p>- Field of View • 80° to 120°</p> <p>Section VII. Technical Specifications Page 30</p>	<p><i>Bullet Camera</i></p> <p>- Field of View • 80° to 120°</p> <p>Note: Any FOV within the range of 80° to 120° is acceptable.</p>										

	<p><i>Network Video Recorder (16 and 32 channels)</i></p> <p>- Up to 4 slots RJ-45 for 10/100/1000 Mbps self-adaptive Ethernet Ports</p> <p>Section VII. Technical Specifications Page 31.</p>	<p><i>Network Video Recorder (16 and 32 channels)</i></p> <p>- Up to 4 slots RJ-45 for 10/100/1000 Mbps self-adaptive Ethernet Ports</p> <p>Note: 4 slots RJ-45 is the maximum for network slots, 1 to 4 slots may be accepted</p>
	<p><i>Network Video Recorder (16 and 32 channels)</i></p> <p>- Power Supply • 12V DC, 2A 100-240 V AC,</p> <p>50/60Hz Support to POE Ports</p> <p>Section VII. Technical Specifications Page 31.</p>	<p><i>Network Video Recorder (16 and 32 channels)</i></p> <p>- Power Supply • 12V DC, 2A 100-240 V AC,</p> <p>50/60Hz Support to POE Ports</p> <p>Note:</p> <ul style="list-style-type: none"> • NVR not requiring external 12V power supply is likewise acceptable • NVR requires built-in POE ports
	<p><i>Power over Ethernet (4 and 8 ports)</i></p> <p>Section VII. Technical Specifications Page 31.</p>	<p><i>Power over Ethernet (4 and 8 ports)</i></p> <p>Note: Industrial grade switches are not required since the switches will be mounted inside the switch boxes.</p>
	<p><i>Power over Ethernet (4 and 8 ports)</i></p> <p>- IEEE 802.3 af/at camera can reach up to 300m</p> <p>Section VII. Technical Specifications Page 31.</p>	<p><i>Power over Ethernet (4 and 8 ports)</i></p> <p>- IEEE 802.3 af/at camera can reach up to 300m</p> <p>Note: Any distance within the minimum required 300m range for POE is acceptable.</p>
	<p><i>Extension Software</i></p> <p>Section VII. Technical Specifications Page 32.</p>	<p><i>Extension Software</i></p> <p>Note: Extension Software is the Video Management Software.</p>
	<p><i>Data Cabinet</i></p> <p>Section VII. Technical Specifications Page 32.</p>	<p><i>Data Cabinet</i></p> <p>Note: Data Cabinet will be installed both indoor and outdoor.</p>
	<p><i>Media Converter</i></p> <p>Section VII. Technical Specifications</p>	<p><i>Media Converter</i></p> <p>Note: SFP module may be used. However, since there will be no</p>

	Page 32.	<i>available switch for the SFP module and considering that media converter is part of the deliverables, the same is still required for you to comply with.</i>
	<i>G.I. Pipes</i> Section VII. Technical Specifications Page 33.	<i>G.I. Pipes</i> <i>Note: The G.I. pipes will be used for poles mast for the cameras.</i>
	<i>Single Core Fiber Optic Cable</i> Section VII. Technical Specifications Page 33.	<i>Single Core Fiber Optic Cable</i> <i>Note: This pertains to single mode fiber optic cable.</i>
	<i>Media Converter</i> Section VII. Technical Specifications Page 32.	<i>Media Converter</i> <i>Note: This may either be managed or unmanaged.</i>
	<i>Media Converter</i> Section VII. Technical Specifications Page 32.	<i>Media Converter</i> <i>Note:</i> <ul style="list-style-type: none"> • <i>The approved technical specification requires a minimum of one (1) port.</i> • <i>IEEE 802.3, 802.3n, and 802.3ab are the protocol support of the equipment.</i> • <i>The power supply required must be compatible and can power-on the cameras without problems.</i>
	<i>For item 2.16 Single core Fiber Optic Cable</i> Section VII. Technical Specifications Page 33.	<i>For item 2.16 Single core Fiber Optic Cable</i> <i>Note:</i> <ul style="list-style-type: none"> • <i>There is no required core size as long as the fiber optic cable is compliant with the approved technical specification.</i> • <i>The cable must be with messenger wire.</i>

ARMY 2040: WORLD-CLASS. MULTI-MISSION READY. CROSS-DOMAIN CAPABLE.

	<p><i>G.I. Pipes</i></p> <p>22. Galvanized Iron Pipe, 3 inches, Schedule 20, 8 feet length</p> <p>Section VII. Technical Specifications Page 47.</p>	<p><i>G.I. Pipes</i></p> <p>22. Galvanized Iron Pipe, 3 inches, Schedule 20, 8 feet length</p> <p>Note: There will be no different pipe requirement other than the listed G.I. Pipe requirement indicated in the bidding documents.</p>
Others	Cabling	<p>Cabling</p> <p>Others</p> <p>Note: Patch panels are not required with cable manager. Nonetheless, the procuring entity does not limit the proponent if they will provide the said item without additional cost.</p>
	Network Switch	<p>Network Switch</p> <p>Others</p> <p>Note: The switches will be connected to an internal network and there is another equipment that will connect the internal network to PA Network.</p>
	Temfacil	<p>Temfacil</p> <p>Others</p> <p>Note: The procuring entity will not provide temporary facility for contractors. It should be shouldered by the winning bidder.</p>

2. The Supplemental/Bid Bulletin No. 1 shall be considered an integral part of the bidding documents.


BENJAMIN L HAO
 BGen PA
 Chairperson

HONOR. PATRIOTISM. DUTY.