

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

PROCUREMENT OF One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center

**Government of the Republic of the Philippines
Metals Industry Research and Development Center**

**Fifth Edition
November 2019**

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Section I. Invitation to Bid



INVITATION TO BID FOR Procurement of One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center

1. The *METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER*, through the *MIRDC Grant-in-Aid Project ‘Research on Advanced Prototyping for Product Innovation and Development Using Additive Manufacturing Technologies (RAPPID-ADMATEC)’* – *Machinery and Equipment Outlay* intends to apply the sum of **FIVE MILLION FIVE HUNDRED THOUSAND PESOS (Php5,500,000.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Procurement of One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER* now invites bids for **Procurement of One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center**. Delivery of the Goods is required *One Hundred Twenty (120) calendar days*. Bidders should have completed, within *five (5) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is open to all interested bidders, whether local or foreign, subject to the conditions for eligibility provided in the IRR of RA 9184.
4. Interested bidders may obtain further information from *Ms. Mary Grace B. Opon/ Kristine A. Gealan, BAC Secretariat, MIRDC* and inspect the Bidding Documents at the address given below during *office hours, from 9:00 A.M. to 4:00 P.M.*
5. A complete set of Bidding Documents may be acquired by interested Bidders on Nov. 15, 2019 from the address below and upon payment of nonrefundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Five Hundred Pesos (Php5,500.00) only.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the

Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The *METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER* will hold a Pre-bid Conference on Nov. 22, 2019, 9:00 A.M. at *Mercury Conference Room, Third Floor, Gold Building, MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City*, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat at the address below not later than Dec. 11, 2019, 9:00 A.M.. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.

Bid opening shall be on Dec. 11, 2019, 9:00 A.M. at *Mercury Conference Room, 3rd Floor, Gold Building, MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City*. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

8. The Bidders shall submit four (4) sets of their Eligibility/Technical Documents and Financial Documents which are contained in two separately sealed envelopes, properly marked. All four (4) sets will be wrapped together by a manila paper, properly marked and sealed.
9. The *METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER* 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 Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
10. For further information, please refer to:
Ms. Mercedita G. Abutal
BAC Chairperson
Metals Industry Research and Development Center
MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City
Tel. No. 837-0431 local 442 and 444
bac@mirdc.dost.gov.ph
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Approved for Posting:

Engr. Robert O. Dizon
Executive Director

Section II. Instructions to Bidders

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A. General

1. Scope of Bid

- a) The Procuring Entity named in the **BDS** invites bids for the supply and delivery of the Goods as described in **Error! Reference source not found.**
- b) The name, identification, and number of lots specific to this bidding are provided in the **BDS**. The contracting strategy and basis of evaluation of lots is described in **ITB** Clause 28.

2. Source of Funds

The Procuring Entity has a budget or has received funds from the Funding Source named in the **BDS**, and in the amount indicated in the **BDS**. It intends to apply part of the funds received for the Project, as defined in the **BDS**, to cover eligible payments under the contract.

3. Corrupt, Fraudulent, Collusive, and Coercive Practices

- a) Unless otherwise specified in the **BDS**, the Procuring Entity as well as the bidders and suppliers shall observe the highest standard of ethics during the procurement and execution of the contract. In pursuance of this policy, the Procuring Entity:
 - (a) defines, for purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in RA 3019.
 - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
 - (iii) “collusive practices” means a scheme or arrangement between two or more Bidders, with or without the knowledge of the

Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.

- (iv) “coercive practices” means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;
- (v) “obstructive practice” is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or
 - (bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.
- b) Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in **ITB** Clause a)(a).
- c) Furthermore, the Funding Source and the Procuring Entity reserve the right to inspect and audit records and accounts of a bidder or supplier in the bidding for and performance of a contract themselves or through independent auditors as reflected in the **GCC** Clause 3.

4. Conflict of Interest

- a) All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) below and a general conflict of

interest in any of the circumstances set out in paragraphs (d) through (g) below:

- (a) A Bidder has controlling shareholders in common with another Bidder;
 - (b) A Bidder receives or has received any direct or indirect subsidy from any other Bidder;
 - (c) A Bidder has the same legal representative as that of another Bidder for purposes of this bid;
 - (d) A Bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process;
 - (e) A Bidder submits more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid;
 - (f) A Bidder who participated as a consultant in the preparation of the design or technical specifications of the Goods and related services that are the subject of the bid; or
 - (g) A Bidder who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
- b) In accordance with Section 47 of the IRR of RA 9184, all Bidding Documents shall be accompanied by a sworn affidavit of the Bidder that it is not related to the Head of the Procuring Entity (HoPE), members of the Bids and Awards Committee (BAC), members of the Technical Working Group (TWG), members of the BAC Secretariat, the head of the Project Management Office (PMO) or the end-user unit, and the project consultants, by consanguinity or affinity up to the third civil degree. On the part of the Bidder, this Clause shall apply to the following persons:
- (a) If the Bidder is an individual or a sole proprietorship, to the Bidder himself;
 - (b) If the Bidder is a partnership, to all its officers and members;
 - (c) If the Bidder is a corporation, to all its officers, directors, and controlling stockholders;
 - (d) If the Bidder is a cooperative, to all its officers, directors, and controlling shareholders or members; and

- (e) If the Bidder is a joint venture (JV), the provisions of items (a), (b), (c), or (d) of this Clause shall correspondingly apply to each of the members of the said JV, as may be appropriate.

Relationship of the nature described above or failure to comply with this Clause will result in the automatic disqualification of a Bidder.

5. Eligible Bidders

- a) Unless otherwise provided in the **BDS**, the following persons shall be eligible to participate in this bidding:
 - (a) Duly licensed Filipino citizens/sole proprietorships;
 - (b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;
 - (c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;
 - (d) Cooperatives duly organized under the laws of the Philippines; and
 - (e) Persons/entities forming themselves into a Joint Venture (JV), *i.e.*, a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, that Filipino ownership or interest of the JV concerned shall be at least sixty percent (60%).
- b) Foreign bidders may be eligible to participate when any of the following circumstances exist, as specified in the **BDS**:
 - (a) When a Treaty or International or Executive Agreement as provided in Section 4 of RA 9184 and its IRR allow foreign bidders to participate;
 - (b) Citizens, corporations, or associations of a country, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
 - (c) When the Goods sought to be procured are not available from local suppliers; or
 - (d) When there is a need to prevent situations that defeat competition or restrain trade.
- c) Government owned or –controlled corporations (GOCCs) may be eligible to participate only if they can establish that they (a) are legally and financially autonomous, (b) operate under commercial law, and (c) are not attached agencies of the Procuring Entity.

- d) Unless otherwise provided in the **BDS**, the Bidder must have completed a Single Largest Completed Contract (SLCC) similar to the Project and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority (PSA) consumer price index, must be at least equivalent to a percentage of the ABC stated in the **BDS**.

For this purpose, contracts similar to the Project shall be those described in the **BDS**, and completed within the relevant period stated in the Invitation to Bid and **ITB** Clause 12.1(a)(ii).

- e) The Bidder must submit a computation of its Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, calculated as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR.

For purposes of computing the foreign bidders' NFCC, the value of the current assets and current liabilities shall be based on their audited financial statements prepared in accordance with international financial reporting standards.

If the prospective bidder opts to submit a committed Line of Credit, it must be at least equal to ten percent (10%) of the ABC to be bid. If issued by a foreign universal or commercial bank, it shall be confirmed or authenticated by a local universal or commercial bank.

6. Bidder's Responsibilities

- a) The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Technical Specifications
- b)

c)	Item	Specifications and Requirements	Statement of Compliance
			Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales

		<p>literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.a)(a)(ii) and/or GCC Clause 2.a)(a)(ii).</p>
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Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
Item Name:	Detailed Specifications:	
1. COOLING SYSTEM		
1.1 Two (2) units Air Conditioner	2.0HP Single split inverter type wall mounted 220 V 1PH at least 57 hZ, with wireless remote Cooling Capacity – 16,557 (2,983-17,500) Power Consumption – 1,487 (227-1,718) Energy Efficient / EER – 10.3 (12.5-9.9) Sound Level@ Low – at least 45/35.3/ 23.7 Voltage,Frequency, Phase- 230-59-1	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<p>Ozone Friendly Refrigerant : Type- R410-A</p> <p>Physical Data (Indoor Net Dimension) W X H X D- 793 X 287 X 225</p> <p>Physical Data (Outdoor Net Dimension) W X H X D – 777 X 545 X 287</p> <p>Pipe Sizes (Liquid / Gas) – ϕ6.35 / ϕ12.7</p> <p>Maximum Pipe Length – at least 18.5</p> <p>One year warranty</p>	
2. DATA CENTER, POWER SYSTEM, MONITORING AND CONTROL SYSTEM		
2.1 One (lot) monitoring and control system with provision for anti-static setup and power system for a data center	<p>Control and Monitoring System:</p> <p>Supports Up to 6 intelligent sensor</p> <p>Virtual Sensors monitor power, Modbus, network devices, and other SNMP based equipment.</p> <p>Built-in graphing and data logging, internally or to a remote PC. Platform independent; free firmware upgrades and utilities. Enables Access Control of 2 Doors using single Door Control unit</p> <p>Supports Internal Audio Speaker</p> <p>Supports Internal Microphone</p> <p>Support 6 Full Auto Sense RJ-45 ports</p> <p>At least 3x RJ-45 Expansion Ports</p> <p>Capable of 10/100Mbps Ethernet Port</p> <p>Embedded web server display sensor information and live video from connected cameras</p> <p>Integrates with network management system via SNMPv1 and Encrypted SNMPv3</p> <p>Stream sensor information directly to cellphone or PDA</p> <p>ability to connect external GPRS/ GSM modem, Bluetooth and Wi-Fi USB adapters.</p> <p>Uses Linux operating system</p> <p>One year warranty</p> <p>Power</p> <p>System:</p> <p>Supply and installation of cable ladders (150mm wide for cable raceway power cable, 300mm wide for cable raceway power cable)</p> <p>Supply and Installation of 3-phase electrical power distribution system, electrical cabinet, convenience power outlets, LED lighting fixtures, switches, and all electrical materials and accessories, including feeder line wires and components, royal cords, THHN wires, main and sub breakers and panel boards for the UPS, AC, and other auxiliary systems inside the server room.</p> <p>Raise floor:</p> <p>Supply and installation of raised flooring</p> <p>Supply and installation of 900mm x 2100mm x 12mm</p>	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	glass panel door, top and bottom analog frame Inclusive of painting works (as needed) and finishing, raised flooring, with all restoration works required for a 3m x 4m room	
2.2 One (1) set Door Access Control System	Should be capable to be integrated to monitoring and control system through a software command control application and platform. Capable of higher level of integration to the following system : CCTV Surveillance System, Car Parking, Intrusion System, Elevator / Lift Control, Point. Includes fingerprint controller, Exit reader, power supply in metal enclosure, Mifare Cards. One (1) year Warranty	
2.3 Two (2) pcs. Inline power Meter	23cm power in / out cable with bare ends	
2.4 One (1) pc. Rope water sensor	10 feet with sensing module, standard 18 feet non-sensing cable and 8 feet sensing rope	
2.5 One (1) pc. Single port temperature and Humidity sensor	Extension cable 5ft included	
2.6 One (1) pc. Airlink USB-based GSM/GPRS	Modem for text alert	
3. FIRE SUPPRESSION SYSTEM		
3.1 One (1) lot Fire suppression system	In accordance with the guidelines contained in NFPA 72 (2002), approved by Factory Mutual (FM), ANSI 864, 9th edition, UL Listed to ANSI 864. Capable of suppressing surface burning fire in Class A, B and C hazards. Ozone depleting potential (ODP) is zero Component Specification: a. Beta cylinder assembly to be filled with at least 65 lbs and 36 lbs agent (1 unit) b. Complete Kit, with accessories, 24VDC c. Discharge Tube, Valve outlet adapter d. 360 degree Discharge Nozzle 8 port (2 Ea) e. Single releasing control Panel f. Back-up Battery. 12VDC (2 units) g. Smoke detector Ionization Sys Sensor h. Smoke detector Photoelectric Sys Sensor i. Standard base two wire (4 units) j. Manual release station (1 unit)	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
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	k. Abort toggle switch station l. at least 5.5" diameter fire alarm (1 unit) m. Horne strobe system sensor (1 unit) One (1) year warranty	
4. SERVER		
4.1 One (1) set 2U Rackmount Server	Processor: 5198 2.1 Ghz 32-Core Xeon Gold Processors Chipset: Intel C621 Memory: at least 118gb DDR4 2666 ECC Registered; 10DIMM slots, Expansion Slots: atleast 3 x PCI-E 3.0 x 6 (FHHL), 2 x PCI-E 3.0 x 6 (LP), 1 x PCI-E 3.0 x14 for Add-on-Module (AOM), 1 x PCI-E 3.0 x 3 NVMe M.2 slot Onboard LAN: 2 x 1GbE LAN ports via Intel C621 Onboard Graphics: ASPEED AST2500 BMC Storage Controller: Broadcom 3108 SAS / SATA add-on controller 2GB 1866MHz DDR3 on-card cache Storage: 3 x 4TB SATA Enterprise 7200 RPM RAID 5 Drive Bays: atleast 6 x Hot-swap 3.5" SAS/SATA drive bays Power Supply: 998.5 W Redundant PSU Titanium Level (96% Efficiency) Cooling System: 3 x Hot-swap 7cm redundant PWM cooling fans, Format Factor: 2U Rackmount Three (3) years Warranty / 8 x 5 Next Business Days service, parts and labor	
4.2 One (1) lic. Operating System	Windows Sever Datacenter 2019 64Bit English 1pk DSP OEI DVD 24 Core	
5. RACK SYSTEM AND PDUs 42U		
5.1 One (1) set 42U Rack	With 595.5 X1069.5 C/W perforated doors w/ lock and key, slit slide panels, EIA Mounting rails; leveling feet; color black curved front door. A complete rack includes all of the following: <ol style="list-style-type: none"> 1. Rack Frame 2. Top cover 3. Front door 4. Split side panels 5. Cage nuts, washer and screw (48 sets) 6. Vertical cable panels for cable and mounting of PDU (2pcs) 7. Foot levelers (4pcs) 8. Rack Connector (2sets- 4pcs per rack) 9. All connection and accessories and screws 10. Rack basic PDU : at least 30A C20, 18way c13 + 2 way C18 meter, Black 11. Basic PDU, 8x14-14 Socket, 1U, Black Phil flex Royal Cord 3C #10 (55m) Twist Lock Outlet Set 4 sets	

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5.2 One (1) set of Console Table and Chair	Standard office table and chair	
6. IT EQUIPMENT & VIDEO CONFERENCING SYSTEM FOR BOARD ROOM, TRAINING ROOM & CONFERENCE ROOM		
6.1 One (1) set Video Conferencing Main Unit	<p>Support Multi-cast. Capable of Dual Network. Support Cascade Mode Application. Capable of Recording with USB Memory</p> <p>Enabling High-Definition Web Conferences. Broadband Stereo Full Duplex Audio. High quality video Full-HD 1080/60p</p> <p>Adjusts data traffic based on network congestion through the use of Rate Control function. With Remote Camera Control</p> <p>With a unique Echo Canceller and with Smooth 2-way conversation with broadband stereo. Easy-to-understand remote lectures and seminars are conducted at multiple sites</p> <p>Connect to a sub-camera to share zoom and still images</p> <p>Compatible with other brand device. With Low Bandwidth Communication Support</p> <p>External Control Interface</p> <p>Communication Method: SIP, H.323</p> <p>Video Compression Method : H.260.5 (mainstream only), H.263, H.263+, H.263++ (reception only), H.263 High Profile, H.263 Baseline Profile</p> <p>Audio Compression Method: G.711 μ-law, A-law (3.4 kHz@64 kbps) G.722 (7.0 kHz@64 kbps) G.722.1 (7.0 kHz@32 kbps)</p> <p>G.722.1 Annex C (14.0 kHz@48 kbps/24 kbps)</p> <p>MPEG-4 AAC-LD Mono (7.0 kHz@32 kbps, 14.0 kHz@64 kbps, 22.0 kHz@96 kbps)</p> <p>MPEG-4 AAC-LD Stereo (14.0 kHz@64 kbps, 22.0 kHz@96 kbps)</p> <p>No. of Channels: G.711/G.722/G.722.1/G.722.1 Annex C: 1</p> <p>MPEG-4 AAC-LD Mono: 1/ MPEG-4 AAC-LD Stereo: 2</p> <p>Remote Camera Control: H.223, H.279 (Zoom/Pan/Tilt/Preset)</p> <p>Dual Stream - Method: H.235 (H.321), BFCP (SIP)</p> <p>Multi-Monitor: atleast 2 displays</p> <p>No. of Applicable Resolution Frames - Main: Max. 1080p 25 frames/second, Sub: Max. 1080p 25 frames/second</p>	

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	<p>Encryption: SRTP (AES 126 bit), H.234 (AES 126 bit) Other: H.460 Communication Bandwidth: 253 kbps to 22 Mbps Video Compatible Resolutions*1: 176 x 144p, 352 x 240p, 352 x 288p, 512 x 288p, 640 x 480p, 704 x 480p, 704 x 576p, 768 x 432p, 800 x 600p, 1024 x 768p, 1280 x 720p, 1280 x 768p, 1280 x 800p, 1920 x 1080p No. of Frames : Max. 57 frames/second (for H.264 1080p) Screen Display : Full-screen, Picture in Picture, Picture with Picture, Side by Side Audio : Echo canceller, Auto gain control, Stationary noise reduction, Lip synch, Equalizer, Mic mute I/O Terminals Video Input : Camera*2: HDMI main x 1, HDMI sub x 1 Input resolution: 1280 x 720p, 1920 x 1080i, 1920 x 1080p PC : RGB x 1(Mini D-sub 13pin), HDMI x 1*2 Input resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full-HD Video Output : HDMI x 2, HDMI x 1 (For own site/recording video), RCA x 1 (Component) Supported output resolutions: 1918 x 1080i, 1918 x 1080p Audio Input : Digital Boundary Microphone x 1 (KX-VCA001) Max. 4, Analogue Boundary Microphone x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*3*4 x 1 (ø3.5 mm), RCA*5 (Stereo) x 1 Audio Output : HDMI*6, Stereo mini-plug*3*7 x 1 (ø3.5 mm), RCA*8 x 1 (Stereo) Network : RJ45 x 2 (1000BASE-T/100BASE-TX Full Duplex) External Control: RS-232C x 1 (Also used for maintenance) Others: USB 2.0*9 x 1, Camera Control Terminal x 1 (Not used) No. of Simultaneous Connection Sites: 16 (Expandable up to 24) Content Sharing: PC (RGB/HDMI), Sub-camera (HDMI sub) USB Host Mode (USB Memory): Updating Software, Recording, Import: Contact List / Profile*10 / Configuration Data / Encryption Data / Start-up Screen / Delivery Tree List Export: Contact List / Profile*10 / Configuration Data / Encryption Data / Delivery Tree List USB Device Mode: USB Video Class: Version 1.0 USB Audio Class: Version 1.0 Network Protocol: TCP/IPv4, TCP/IPv6*11, UDP/IPv4, UDP/IPv6*11, DHCP, DNS, HTTP, HTTPS, TELNET, NTP Network Functions: Packet resending (ARQ), Forward</p>

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	<p>Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary Port Setting, NAT Compatibility, Encryption, IP Precedence/DiffServ Support</p> <p>External Control: Via Web Browser, Control by HTTP CGI, TELNET, RS-232C</p> <p>Connection Modes: IP mode, NAT Traversal mode, IP / NAT Traversal mode</p> <p>Dimensions (width x depth x height): Approx. 318 mm x approx. 267 mm x approx. 59 mm (Excluding projecting parts)</p> <p>Weight: Approx. 3.3 kg (approx. 7.3 lb)</p> <p>Power Input: AC 100-240 V, -1.0 A, 45/55 Hz</p> <p>Power Consumption: Maximum: approx. 70 W, Standby: 0.5 W</p> <p>DC Power Input: DC 24 V, 2.5 A</p> <p>Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)</p> <p>Operating Humidity: 10 % to 90 % (non-condensing)</p> <p>Language: English, German, French, Italian, Spanish, Dutch, Portuguese, Japanese, Russian, Chinese, Arabic</p> <p>With 1 free HDVC Mobile License for 1 year</p> <p>One (1) year warranty</p>	
6.3 Three (3) set Video Conferencing Microphone	<p>Maximum Pickup Range : Approx. 3.5 m (radius)</p> <p>Pickup Method : Stereo / Monaural *11.5</p> <p>"Microphone Unit : Unidirectional ECM microphone parts at least x 3"</p> <p>Number of Connections : Maximum 4 microphones</p> <p>Maximum Input Sound Pressure : 105 dBspl</p> <p>Number of Terminals for Microphone Connection : 2</p> <p>Dimensions : Approx. 118 mm (diameter) x 25 mm</p> <p>Cable Length : Approx. 7.5 m</p> <p>Power Input : Supplied from main unit via proprietary cable</p> <p>Weight : Approx. 275 g</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p> <p>One (1) year warranty</p>	
6.4 One (1) set Extension Cable for Microphone unit	<p>Dimensions (diameter x length) : 7 mm (cable outer diameter) x 20 m</p> <p>Weight : 1.3 kg</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p>	
6.5 One (1) set Video Conference Camera	<p>Effective Pixels: 1918 x 1080i, 1918 x 1080p</p> <p>Pan / Tilt : Pan: ±95°, Tilt: ±19°</p> <p>Zoom (optical/digital) : 2x / 3x</p> <p>Angle of view (optical zoom) : Horizontal angle of view, 80° (Wide end) – 29.5° (Tele end), Vertical angle of view 65.4° (Wide end) -, 20.5° (Tele end), F1.2 (Wide end) -, F2.1 (Tele end); Presets : at least 10 positions</p> <p>Connection Cable : HDMI</p> <p>Dimensions (width x depth x height) : Approx. 130 mm x</p>	

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	approx. 125 mm x approx. 134 mm Weight : Approx. 0.6 kg Operating Temperature : 0 °C to 40 °C Operating Humidity : 10 % to 90 % (non-condensing) One (1) year warranty	
6.6 One (1) set LCD Laser Projector	Technology: Laser LCD. Brightness: at least 5 000 - 5 450 lumens. Power Supply AC 100-240 V, 45.5- 58 Hz Power Consumption: *1 435W (during standby) Approx. 0.4 W (When [STANDBY MODE] is set to [ECO]) Approx. 20 W (When [STANDBY MODE] is set to [NORMAL]) Approx. 47 W(When [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and USB memory is inserted in the terminal) Approx. 115 W(When [QUICK STARTUP] is set to [ON], [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and the power is supplied from the terminal BTU Value: Max 1,533BTU LCD Panel Panel Size: 17.3 mm (0.76 inches) diagonal (16:10 aspect ratio) LCD Panel Display Method:Transparent LCD panel (x 3, R/G/B) LCD Panel Drive Method: Active matrix method LCD Panel Pixels:2,299,000 (1918 x 1198) x 3, total of 6,899,000 pixels Light Source: Laser Diode Laser class 1(Class3R for US models) Illumination Life of Set: Varies depending on operation mode setting. 20,000 hours at half luminance * IEC62087: 2008 Broadcast contents, Dynamic contrast [2], Temperature: 30°C (86F), Under conditions of 0.15 mg/m 3 of particulate matte Projection Size: 1.02–10.16 m (40–400 inches) diagonally, 16:10 aspect ratio Light output * 5 000 - 5 450 lumens (Input signals: PC, Operating mode: Normal, Dynamic mode) Center-to-Corner Uniformity: 90% Contrast Ratio: *1 2,999,000:1(all white/all black)(Dynamic Contrast 1 or 2) (Input signals: PC, Operating mode: Normal, Dynamic mode) Resolution: WUXGA 1918 x 1198 pixels Scanning Frequency RGB: fH: 15- 91kHz, fV: 24 - 100Hz, dot clock: 162 MHz or less Scanning frequency YPBPR(YCBCR): 480i (525i): fH 15.73 kHz; fV 59.94 Hz, 576i (625i): fH 15.63 kHz; fV 50 Hz, 480p (525p): fH 31.47 kHz; fV 59.94Hz, 576p (625p): fH 31.25 kHz; fV 50 Hz, 720 (750)/60p: fH 45.00 kHz; fV 60 Hz, 720 (750)/50p: fH 37.50 kHz; fV 50 H z, 1080 (1125)/60i: fH 33.75 kHz; fV 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fV 50 Hz, 1080 (1125)/25p: fH 28.13 kHz; fV 25 Hz, 1080 (1125)/24p: fH 27.00 kHz; fV 24 Hz, 1080 (1125)/24sF: fH 27.00 kHz; fV 48 Hz, 1080 (1125)/30p: fH 33.75 kHz; fV 30 Hz, 1080 (1125)/60p: fH 67.50 kHz; fV 60 Hz, 1080 (1125)/50p: fH 56.25 kHz; fV	

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	<p>50 Hz Scanning Frequency Video: fH: 14.70 kHz / 15.20 kHz fV: 55.55 Hz / 45.5 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM] Scanning Frequency HDMI/DIGITAL LINK: · Moving image signal resolution: 480i (525i)*2, 576i (625i)*2, 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p, 1080 (1125)/50p Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace) · Dot clock frequency: 25 MHz to 162 MHz Optical Axis Shift: Vertical ±67%, Horizontal ±35% (Supplied lens/ET-ELS20/ET-ELW20/ET-ELT20/ET-ELT21) Vertical ±60%, Horizontal ±30% (ET-ELW22) NOTE: Optical axis shift function cannot be operated when used with the ET-ELW21. Installation: Ceiling/desk/AUTO, front/rear, 360 degree free installation Speaker: 3.5 cm round-type x 1 Maximum Usable Volume Output: 8.5 W (monaural) Terminals HDMI 1 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz) Terminals HDMI 2 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz) Terminals RGB 1 In: BNC (female) x 4, RGB/Y PB/PR (CB/CR) Terminals RGB 2 In: D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR) Terminals Monitor Out:D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR) Terminals Video In:Pin jack x 1 Terminals Audio In 1: M3 stereo jack x 1(L-R) Terminals Audio In 2: M3 stereo jack x 1(L-R) Terminals Audio In 3: Pin jack x 2(L-R) Terminals Variable Audio Out: M3 jack, 0 V[rms] to 2.0 V[rms] variable, output imedance 2.2 k ohms and less Terminals Serial In: D-sub 9 pin, RS-232C compliant, for computer control use Terminals REMOTE 1:D-Sub 9 p (female) x 1, for external control (parallel) Terminals REMOTE 2:M3 jack x 1(L-R) for link control (for wired remote control) Terminals LAN: RJ-45 x 1 for network connection, 10/100Base-TX, compliant with PLink™(Class 2) Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compliant with PLink™(Class 2), Deep Color, HDCP Terminals VIEWER / PAIRING: USB type-A x 1 Terminals DC Out: USB type-A x 1(DC 5V, 2A(Max))</p>	

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	Power Cord Length:3.0m(9ft 10in) Noise Level: *1 32dB (Operating mode: NORMAL/ECO), 26dB (Operating mode: QUIET) Operating environment Temperature: 0°C (32°F) to 45°C (113°F) The projector cannot be used at an altitude of 2,700 m (8,858') or higher above sea level. The light output may decrease to protect the projector when the operating environment temperature exceeds 36 °C (96.8 °F). Operating Environment Humidity: 20% to 80% (no condensation) One (1) year warranty	
6.7 One (1) pc. Unmanaged PoE fiber switch	Support at least 20*3*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber slot ports, port 1-23 can support IEEE 802.3af/at PoE standard, Built-in 235W power supply. Support 1U/18 inch rack installation.	
6.8 One (1) pc. Router	Supports 802.11ac standard Simultaneous 2.4GHz 300 Mbps and 5GHz 867 Mbps connections for 1198 Mbps of total available bandwidth	
6.9 Two (2) sets Laser Projector	Laser LCD, 4,500 – 4,900 lumens, WUXGA Compact and lightweight body bringing high brightness dynamic image Long lasting laser light source provide consistent brightness 1.3 x zoom and wide horizontal and vertical lens shift for flexible installation Long lasting laser light source and low-maintenance design provide high brightness and superb image quality Light output*1: 4,500 – 4,900 lumens Technology: Laser LCD LCD panel Panel size (mm): 14 mm diagonal (15:9 aspect ratio) LCD panel Panel size (inch): 0.62 inch diagonal (15:9 aspect ratio) LCD panel Display method: Transparent LCD panel (x 3, R/G/B) LCD panel Drive method: Active matrix LCD panel Pixels: 2,304,000 (1918 x 1198) x 3, total of 5,500,000 pixels LENS: 1.6 x Manual zoom (throw ratio 1.09-1.77 :1), F = 1.60-2.12, f = 15.30-24.64 mm Light source: Laser diode Screen size (diagonal) (mm): 0.76 - 7.62 m, 16:10 aspect ratio Screen size (diagonal) (inch): 25-298 in, 15:9 aspect ratio Center-to-corner uniformity*1: 85% Contrast*1: 2,999,000:1 (all white/all black) (Input signals:PC,LIGHT POWER:NORMAL,PICTURE MODE:DYNAMIC,DAYLIGHT WIEW:OFF,DYNAMIC CONTRAST:[1],AUTO POWER SAVE:OFF) Resolution: 1918 x 1198 pixels Optical axis shift Vertical (from center of screen): 0 % -	

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	<p>+44 % (Manual)</p> <p>Optical axis shift Horizontal (from center of screen): - 20% - +20% (Manual)</p> <p>Keystone correction range*2: Vertical: $\pm 22^\circ$, Horizontal: $\pm 33^\circ$</p> <p>Installation: Horizontal/Vertical, free 360-degree installation</p> <p>Terminals HDMI 1/2 IN: HDMI 18-pin x 2 (Compatible with HDCP, Deep Color, 4K/30p signal input)</p> <p>Terminals COMPUTER 1 IN: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR)</p> <p>Terminals COMPUTER 2 IN / MONITOR OUT: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR) (input/output switching)</p> <p>Terminals VIDEO IN: Pin jack x 1</p> <p>Terminals AUDIO 1/2 IN: M3 stereo mini-jack x 2</p> <p>Terminals AUDIO 3 IN: Pin jack (L/R) x 1</p> <p>Terminals VARIABLE AUDIO OUT: M3 stereo mini-jack x 1</p> <p>Terminals SERIAL IN: D-sub 9-pin x 1 for computer control (RS-232C compliant)</p> <p>Terminals LAN: RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ (Class 2)</p> <p>Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK connection, HDBase-T™ compliant, 100Base-TX, compatible with PLink™ (Class 2), HDCP, Deep Color, 4K/28p signal input</p> <p>Terminals USB CONNECTOR: USB connector (Type A) x 1 for Memory Viewer function, power supply (DC5V, maximum 2A*3), optional wireless module AJ-WM50</p> <p>Power supply: AC 100-240 V AC, 45/55 Hz</p> <p>Power consumption: TBD</p> <p>Built-in Speaker: 10 W (monaural)</p> <p>Operating noise*1: NORMAL: 35dB, QUIET: 27dB</p> <p>Cabinet materials: Molded plastic</p> <p>Filter: Included</p> <p>Filter cleaning cycle: 18,500 hours (0.08 mg/m3 of particulate matter), 9,900 hours (0.15 mg/m3 of particulate matter)</p> <p>Dimensions (W x H x D) (mm): 399 x 115 x 348 mm (Not including protruding parts) 397 x 131 x 344 mm (With feet at shortest position)</p> <p>Dimensions (W x H x D) (inch): 15 23/32 x 4 17/32 x 13 11/16 inch (Not including protruding parts) 15 23/32 x 5 1/4 x 13 11/16 inch (With feet at shortest position)</p> <p>Weight (kg)*4: 7.2 kg</p> <p>Weight (lbs.)*4: 15.87 lbs.</p> <p>Operating environment (°C/M): Operating temperature: 0 °C- 45 °C, operating humidity: 20 %-80 % (no condensation)</p> <p>Operating environment (°F/Feet): Operating temperature: 32 °F -113 °F, operating humidity: 20 %-80 % (no condensation)</p> <p>Applicable software/application: Logo Transfer Software,</p>	

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	Multi Monitoring & Control Software, Presenter Light for Windows®, Wireless Projector Apps for iOS/Android™ With Ceiling mount bracket One (1) year warranty	
6.10 Three (3) pcs. 102.5” Motorized Screen (15:9)	Installation Options: Floating Wall Mount / Ceiling Mount / Suspended Mount (using the “L bracket”). Control Options: IR / RF / RS485 + Dry Contact Control / 3-12 Voltage Trigger Control / Central Control / IP. Control - • Colour: Black / White Aluminum Casing	
6.11 Two (2) sets Amplifier System	<p>Minimum of 61W , 97 Volt Height- rack units (1U=43 mm) in U : 2 Depth (incl front) in mm : at least 293 Emergency power supply: 24 VDC Output power RMS 100 volts in watts : 63 Dynamic output power 100 volts in watts: 63 Output power tapings : 97 – 67 volts – 7 ohms MIC inputs balanced: 2 Line input unbalanced: 1 Priority switch : 1 Chime : yes Priority output : 0 Frequency response (in Hz) : 59 – 17 k Applicable in 100V : yes Net weight product (kg) : 5.39 Depth (build in) in mm : 273 Power supply : 115 - 230 VAC Power consumption (max) in watts : 167 Output power RMS 8 ohms in watts : 63 Minimum impedance load in ohms : 7 Zone outputs : 1 Inputs with Phantom power : 2 Tone control yes VOX mute: yes Emergency input : 0 Priority levels : 2 Cooling system: convection Applicable low impedance : yes</p> <p>Includes one (1) unit Multimedia player system: HDMI Full HD Support; Full HD Video; Full HD Sound; Full HD Microphone User Contents - Fast USB to HDD Transfer - Edit (Rename, Delete, Modify) - Auto Song Numbering assignment Recording function - MTV, Chorus, MIDI may be recorded - Transfer Recordings to USB - Edit (Rename, Delete, Modify) - External USB HDDs Supported via USB connectivity Multimedia Function</p>	

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	<ul style="list-style-type: none"> - Full Playback Function - avi, rmbv, mkv, mpg, wmv, etc. - mp3, wma, aac, wav, etc. - jpg, bmp, gif, etc. <p>Specifications:</p> <p>Processor: Cortex-A9 1.2GHz Dual core</p> <p>RAM: DDR3, 1GB Memory</p> <p>Operating System: Android 4.2 Jelly Bean</p> <p>Storage: 1TB HDD</p> <p>Microphone Input: Two (2) slots available</p> <p>Microphone Volume: Available</p> <p>Echo Volume: Available</p> <p>USB Compatibility: Two (2) USB 2.0 Port</p> <p>LED Backlit Buttons: Available</p> <p>TV Input Channel: HDMI</p> <p>: Video Out</p> <p>:YPbPr Video Out</p> <p>:Composite Video Out</p> <p>Background Video Input: Two (2) Input Available</p> <p>Audio Output :Analog Audio Out</p> <p>:Optical Audio Out</p> <p>:Coaxial Audio Out</p>	
6.12 Four (4) sets Wall Speaker	<p>Components</p> <p>At least 7" woofer with woven fiberglass cone</p> <p>1" PEI diaphragm tweeter with fluid cooling</p> <p>Contemporary, high-design appearance</p> <p>Built-in InvisiBall® mounting hardware, plus available U-bracket</p> <p>Weather resistant enclosure and transducers</p> <p>Wide 90° x 90° coverage</p> <p>115W power handling (235W program) in direct 7Ω setting, plus built-in 55W 65V/95V multi-tap transformer</p> <p>High fidelity sound character with broad frequency response of 40 Hz – 18 kHz</p> <p>System</p> <p>Frequency Range (-10 dB) - 40 Hz – 18 kHz</p> <p>Frequency Response (±3 dB) - 60 Hz – 15 kHz</p> <p>Power Rating: 235W Continuous Program (2 hrs) 118W (475W peak), Continuous Pink Noise (2 hrs) 90W (360W peak) Continuous Pink Noise (100 hrs)</p> <p>Maximum Input Voltage – 27.5 V RMS (2 hrs), 55.0 V peak</p> <p>Maximum SPL3 – 112 dB ave. Continuous Pink Noise (118 dB peak)</p> <p>Sensitivity – 91 dB, 1W/1m (ave. 100 Hz – 10 kHz)</p> <p>Coverage Angle - 90° x 90°</p> <p>Directivity Factor (Q) - 7.3 (averaged 1kHz – 16kHz)</p> <p>Directivity Index (DI) – 8.3dB (averaged 1kHz – 16kHz)</p> <p>Nominal Impedance – 7 ohms (THRU setting)</p> <p>Crossover Type - 2nd order low-pass, 1st order high-</p>	

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	<p>pass, plus conjugate shaping</p> <p>Circuitry Transformer Taps – 65V: 55W, 25W, 10W, 6.5W 95V: 55W, 25W, 10W Insertion Loss: <0.94 dB at any tap setting Thru Setting: 7Ω nominal Recommended Protective High-Pass – 6 45 Hz high-pass (24 dB/oct) for 8Ω operation plus 15W and 7.5W taps; 55 Hz for 30W tap; 65 Hz for 60W tap</p> <p>Transducers Low Frequency – 198 mm (8 in), woven-fiberglass cone with pure butyl rubber surround with Weather-Edge frame protection, high-temp fiberglass voice coil former, high-temp voice coil wire, optimized cone geometry, linear suspension spider, and FEA optimized motor structure High Frequency – 23 mm (1 in) PEI diaphragm, low-viscosity ferromagnetic fluid, and lightweight Kapton™ voice coil former</p> <p>Physical Enclosure Material - High Impact Polystyrene (HIPS) with 10% glass fill, painted with highly-UV resistant paint on white (-WH) version for maximum UV fade resistance Grille – Highly zinc-plated, finished in durable TGIC polyester powder coating. MTC-28WMG-1 (&-WH) available with Weather-Max™ multi-layer foam and tight-weave mesh vapor barrier backing. Installation – InvisiBall wall-mounting system included. Two 6 mm attachment points (on top and bottom) for optional MTC-28WMG-1 (&-WH) U-bracket. Secondary safety attachment loop point on back panel. Agency Rating – ROHS-compliant; Transformer UL Recognized per UL1876 Dimensions - (H x W x D) 7 386 x 282 x 219 mm (15.2 x 11.1 x 8.6 in); 277 mm (10.9 in) deep total when mounted on InvisiBall wall-mount bracket; Net Weight – 6.8 kg (15.0 lbs) One (1) year warranty</p>	
6.13 Two (2) sets Dual Handheld Microphone	<p>Designed metal housing with distinctive Aesthetic and ergonomic style Interchangeable capsule module with premium condenser Patented capsule suspension design virtually Eliminates vibration and handling noises Built-in high-efficiency antenna Backlit LCD displays all operational parameter information Provides precise and rapid frequency sync to the receiver</p> <p>Technical Specifications Frequency Range – UHF 478 – 931 MHz Bandwidth – 21 MHz Oscillation Mode – PLL Synthesized RF Output Power - 9 ~ 27mW (country dependent) Deviation - < ± 40 kHz</p>	

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	Spurious Emissions < -53 dBc LCD Display - Group, Channel, Battery status & error codes Max. SPL – 135 dB SPL Battery Type - 2 x AA alkaline Operating Time – Min. 12 hours (Low Power) Current Consumption – Approx. 92 mA Dimensions - (Ø x L) 51 x 234 mm 2 x 9.2 " Net Weight - Approx. 251 g 8.9 oz	
6.14 One (1) lot Speaker cable transparent #16 AWG, Interconnector	(XLR Male to XLR Female 1m), 3.5mm stere plug-2 X RCA Plug (1.5m)	
7. PABX EQUIPMENT		
7.1 One (1) set PBX Main Unit	Support Multi-site networking. SIP Networking for Low cost. Flexible expansion by adding activation key. Support small to large communication system. Up to maximum 992 (with DXDP 1152) Extensions. Built-in support for Advanced IP extensions as well as standard SIP phones. Easy Migration to IP SIP trunking Integrated SIP telephony via ITSPs* and other SIP trunk Providers. It is a high intuitive PC Based application suit that blend powerful point and click telephony. Wireless Mobility Solutions. Built-in and Optional Voice Mail Processing system. Reduced Total Cost of Ownership.	
7.2 Two (2) sets 24-Port SLT Extension Card	Physical Extension Cards with Caller ID and Message Lamp Card	
7.3 One (1) set 8-port Digital Extension Card	Physical Extension Cards	
7.4 One (1) set Power Supply unit	L-Type	
7.5 One (1) set Back-up battery Cable	included	
7.6 One (1) set 16-ch VoIP DSP Card	16 channel digital signal processor card with one 4 channel IP trunk SHGW4 activation key and one 8 channel IP proprietary telephone IPPT8 activation key pre-installed	

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	Compliant with ITU-T G.729a and G.711 codec methods Mounts on IPCMPR card	
7.7 Three (3) sets 3-Line LCD Digital Proprietary Telephone	3-Line Backlight LCD Display; 24 Flexible CO Buttons Full Duplex Speakerphone; EHS Support Specifications: Main LCD Display (Lines/Characters) – 3/16 LCD Backlight- Yes Flexible CO Keys – 24 Navigator Keys- Yes Soft Keys – 4 Call Log Incoming/Outgoing Calls- Yes / Yes Speakerphone - Yes (Full Duplex) Headset Port – Yes Electric Hook Switch (EHS)*1 – Yes Dimensions (mm) *2 (Width x Depth x Height) High Position267x170x180Low Position267x187x155Weight (g)*31070ColorBlack, White	
7.8 One (1) set 1-Line Digital Proprietary Telephone	1-line Graphical LCD with backlighting; 8 freely programmable function keys; Speaker Phone, handset and headset with full duplex; Available in black and white colour Specification: LCD Type - Graphic LCD Dots (W x H) 160 x 18 LCD Line 1 LCD Character 16 LCD Backlight Yes (On/Automatic/Off) Headset Yes (2.5 mm audio jack) Full Duplex Electronics Hook Switch (EHS) No Speakerphone Yes (Full Duplex) External Expansion 1 DXDP port Bluetooth (for Headset) No DXDP Yes XDP No Data Transmission Capability PBX to DPT: Cable fÓ0.5 mm 500 m DPT to DPT: Cable fÓ0.5 mm 50 m Wall Mount Kit Yes (Option) Dimension (W x D x H mm) LOW: 205 x 160 x 170 FF Keys 8 Soft Keys No 0-9, *, # Keys Yes Redial Key Yes Flash/Recall Key Yes Hold Key Yes SP-Phone Key Yes	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Auto Answer/Mute Key Yes Auto Dial/Store Key Yes Transfer Key Yes Intercom Key Yes Pause Key - Yes CONF Key - Yes FWD/DND Key No Message Key Yes Navigator Key No 4-Directions Key Yes Cancel Key No LED Message/Ringer Lamp Yes (Green/Red) LED FF Keys Yes (Green/Red) LED Intercom Yes (Green) LED SP-Phone Yes (Red) LED Auto Answer/Mute Yes (Red) LED Auto Dial/Store Yes (Red) LED CONF No LED FWD/DND Yes (Red) Message/Ringing Lamp Yes OHCA Yes Bluetooth Headset Adapter No Auto Redial No Off-Hook Monitor Yes Handset/Headset Mic Mute Yes Speakerphone Mic Mute Yes Phone Directory Yes Feature Access No Outgoing Call Log Yes Incoming Call Log Yes Audio Codec Yes (G.711) USB Unit I/F No System Programming No Station Programming Yes*1 Electric Volume Headset 6 levels Electric Volume Handset 6 levels Electric Volume Speakerphone 8 levels Electric Volume Ringer 4 + Off LCD Contrast 4 levels Tones/Music Ring Tone 8 Tones/Music on Hold No (Tone) Footnote *1 To operate by PROGRAM Key or PAUSE Key	
7.9 One (1) set 4-Ch IP Trunk	4-Channel H.323/SIP Gateway Activation Key	
7.10 Twelve (12) sets Basic Single Line Telephone	Integrated Telephone System Choice of Five Colors: black, white, red, dark blue and grey; Wall Mountable; Last Number Redial; Timed Flash Electronic Volume Control; 3-Step Ringer	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Selector Switchable Tone/Pulse Settings Specifications: Dial Mode: Tone (DTMF)/pulse Redial: One-touch (32 digits) Flash: 600 ms Power Source: Telephone line Dimensions (H x W x D): 96 mm x 150 mm x 200 mm Weight: 475 g	
7.11 One (1) set AVR 1000W	included	
7.12 Three (3) sets 12V Battery	included	
7.13 Five (5) sets Krone Terminal	included	
7.14 Three (3) sets Amphenol Cable with Head	included	
8. Supply and installation of IT equipment for the data center and other ICT equipment. Including (Refrigerant piping type M hard drawn copper pipe) and ACCU to FCU electrical power supply (THHN Philflex) with PVC flexible conduit. 1" diameter PVC condensate drain pipe including	included	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center	Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.	
insulating using 3/8" thick rubber insulation wrapped with polyethylene tape. Installation of FM200. installation of fire suppression control panel, programming and configuration. Installation of monitoring and access control system, configuration, testing and commissioning. PABX installation, tracing, termination, programming and testing. Tracing, termination and programming for HD visual communication system, projectors and audio system. Testing and commissioning of all equipment, miscellaneous and consumables and training of all the system and integration.	
9. OTHER REQUIREMENTS	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	9.1 To ensure the quality of service, the contractor shall submit the following documents:	
	Supplier must have at least five (5) years of experience in supply, delivery, installation, testing and commissioning of network equipment and structured cabling system / Data Center Solution.	
	Supplier must have completed at least one (1) similar projects in supply, delivery, installation, testing and commissioning of network equipment and Data Center Solution.	
	The supplier shall submit implementation time-line that reflects all the milestones in Gantt chart.	
	Supervised by a Certified License Electronics and Communication Engineer.	
	Supplier must have at least Three (3) Certified Data Center Professionals (CDCP) duly employed by the company for at least 5 years and above.	
	Managed by a registered Project Manager (PM) and shall submit a certificate issued by the Project Management Institute (PMI).	
	Contractors must have Philippine Contractors Accreditation Board (PCAB) licenses required by Republic Act 4566 to perform telecommunications/communications installations.	
	The contractor shall be responsible for all required permits.	
9.2 Maintenance / Support	One (1) year maintenance with quarterly preventive maintenance visit	
9.3 Warranty	One (1) year parts and services One (1) year Workmanship	
9.4 Training	Operations and Maintenance Training prior to the acceptance of the project. Including lectures and actual demonstration for at least 8 hours for minimum of ten (10) participants.	
9.5 Delivery / Project Duration	Project must be completed within 120 days upon receipt of Notice to Proceed	
9.6 Operations & Maintenance Manual (English)	Included	

- d) Section VIII. Bidding Forms as required in **ITB** Clause 12.a)(b)(iii).
- e) The Bidder is responsible for the following:
 - (a) Having taken steps to carefully examine all of the Bidding Documents;
 - (b) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;
 - (c) Having made an estimate of the facilities available and needed for the contract to be bid, if any;
 - (d) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin(s) as provided under **ITB** Clause 10.d).

- (e) Ensuring that it is not “blacklisted” or barred from bidding by the GOP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;
- (f) Ensuring that each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- (g) Authorizing the HoPE or its duly authorized representative/s to verify all the documents submitted;
- (h) Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Bidder in the bidding, with the duly notarized Secretary’s Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;
- (i) Complying with the disclosure provision under Section 47 of RA 9184 and its IRR in relation to other provisions of RA 3019;
- (j) Complying with existing labor laws and standards, in the case of procurement of services; Moreover, bidder undertakes to:
 - (i) Ensure the entitlement of workers to wages, hours of work, safety and health and other prevailing conditions of work as established by national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable.

In case there is a finding by the Procuring Entity or the DOLE of underpayment or non-payment of workers’ wage and wage-related benefits, bidder agrees that the performance security or portion of the contract amount shall be withheld in favor of the complaining workers pursuant to appropriate provisions of Republic Act No. 9184 without prejudice to the institution of appropriate actions under the Labor Code, as amended, and other social legislations.

- (ii) Comply with occupational safety and health standards and to correct deficiencies, if any.

In case of imminent danger, injury or death of the worker, bidder undertakes to suspend contract implementation pending clearance to proceed from the DOLE Regional Office and to comply with Work Stoppage Order; and

- (iii) Inform the workers of their conditions of work, labor clauses under the contract specifying wages, hours of work and other benefits under prevailing national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable, through posting in two (2) conspicuous places in the establishment's premises; and
- (k) Ensuring that it did not give or pay, directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned.

- f) The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents.
- g) It shall be the sole responsibility of the Bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to the contract to be bid, including: (a) the location and the nature of this Project; (b) climatic conditions; (c) transportation facilities; and (d) other factors that may affect the cost, duration, and execution or implementation of this Project.
- h) The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity. However, the Procuring Entity shall ensure that all information in the Bidding Documents, including bid/supplemental bid bulletin/s issued, are correct and consistent.
- i) Before submitting their bids, the Bidder is deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.
- j) The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- k) The Bidder should note that the Procuring Entity will accept bids only from those that have paid the applicable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7. Origin of Goods

Unless otherwise indicated in the **BDS**, there is no restriction on the origin of goods other than those prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, subject to **ITB** Clause 27.a).

8. Subcontracts

- a) Unless otherwise specified in the **BDS**, the Bidder may subcontract portions of the Goods to an extent as may be approved by the Procuring Entity and stated in the **BDS**. However, subcontracting of any portion shall not relieve the Bidder from any liability or obligation that may arise from the contract for this Project.
- b) Subcontractors must submit the documentary requirements under **ITB** Clause 12 and comply with the eligibility criteria specified in the **BDS**. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Goods shall be disallowed.
- c) The Bidder may identify the subcontractor to whom a portion of the Goods will be subcontracted at any stage of the bidding process or during contract implementation. If the Bidder opts to disclose the name of the subcontractor during bid submission, the Bidder shall include the required documents as part of the technical component of its bid.

B. Contents of Bidding Documents

9. Pre-Bid Conference

- a) (a) If so specified in the **BDS**, a pre-bid conference shall be held at the venue and on the date indicated therein, to clarify and address the Bidders' questions on the technical and financial components of this Project.

 (b) The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission and receipt of bids, but not earlier than seven (7) calendar days from the posting of the invitation to bid/bidding documents in the PhilGEPS website. If the Procuring Entity determines that, by reason of the method, nature, or complexity of the contract to be bid, or when international participation will be more advantageous to the GOP, a longer period for the preparation of bids is necessary, the pre-bid conference shall be held at least thirty (30) calendar days before the deadline for the submission and receipt of bids, as specified in the **BDS**.
 - b) Bidders are encouraged to attend the pre-bid conference to ensure that they fully understand the Procuring Entity's requirements. Non-attendance of the Bidder will in no way prejudice its bid; however, the Bidder is expected to know the changes and/or amendments to the Bidding Documents as recorded in the minutes of the pre-bid conference and the Supplemental/Bid Bulletin. The minutes of the pre-bid conference shall be recorded and prepared not later than five (5) calendar days after the pre-bid conference. The minutes shall be made available to prospective bidders not later than five (5) days upon written request.
- 9.3 Decisions of the BAC amending any provision of the bidding documents shall be issued in writing through a Supplemental/Bid Bulletin at least seven (7) calendar days before the deadline for the submission and receipt of bids.

10. Clarification and Amendment of Bidding Documents

- a) Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such request must be in writing and submitted to the Procuring Entity at the address indicated in the **BDS** at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.
- b) The BAC shall respond to the said request by issuing a Supplemental/Bid Bulletin, to be made available to all those who have properly secured the Bidding Documents, at least seven (7) calendar days before the deadline for the submission and receipt of Bids.
- c) Supplemental/Bid Bulletins may also be issued upon the Procuring Entity's initiative for purposes of clarifying or modifying any provision of the Bidding Documents not later than seven (7) calendar days before the deadline for the submission and receipt of Bids. Any modification to the Bidding Documents shall be identified as an amendment.
- d) Any Supplemental/Bid Bulletin issued by the BAC shall also be posted in the PhilGEPS and the website of the Procuring Entity concerned, if available, and at any conspicuous place in the premises of the Procuring Entity concerned. It shall be the responsibility of all Bidders who have properly secured the Bidding Documents to inquire and secure Supplemental/Bid Bulletins that may be issued by the BAC. However, Bidders who have submitted bids before the issuance of the Supplemental/Bid Bulletin must be informed and allowed to modify or withdraw their bids in accordance with **ITB** Clause 23.

C. Preparation of Bids

11. Language of Bids

The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and shall be authenticated by the appropriate Philippine foreign service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. The English translation shall govern, for purposes of interpretation of the bid.

12. Documents Comprising the Bid: Eligibility and Technical Components

- a) Unless otherwise indicated in the **BDS**, the first envelope shall contain the following eligibility and technical documents:

- (a) Eligibility Documents –

Class “A” Documents:

- (i) PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.
- (ii) Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and

Statement of the Bidder's SLCC similar to the contract to be bid, in accordance with ITB Clause 5.4, within the relevant period as provided in the **BDS**.

The two statements required shall indicate for each contract the following:

- (ii.1) name of the contract;
- (ii.2) date of the contract;
- (ii.3) contract duration;
- (ii.4) owner's name and address;
- (ii.5) kinds of Goods;
- (ii.6) For Statement of Ongoing Contracts - amount of contract and value of outstanding contracts;
- (ii.7) For Statement of SLCC - amount of completed contracts, adjusted by the Bidder to current prices using PSA's consumer price index, if necessary for the purpose of meeting the SLCC requirement;
- (ii.8) date of delivery; and
- (ii.9) end user's acceptance or official receipt(s) or sales invoice issued for the contract, if completed, which shall be attached to the statements.
- (iii) NFCC computation in accordance with ITB Clause 5.5 or a committed Line of Credit from a universal or commercial bank.

Class "B" Document:

- (iv) If applicable, the Joint Venture Agreement (JVA) in case the joint venture is already in existence, or duly notarized

statements from all the potential joint venture partners in accordance with Section 23.1(b) of the IRR.

(b) Technical Documents –

- (i) Bid security in accordance with **ITB** Clause 18. If the Bidder opts to submit the bid security in the form of:
 - (i.1) a bank draft/guarantee or an irrevocable letter of credit issued by a foreign bank, it shall be accompanied by a confirmation from a Universal or Commercial Bank; or
 - (i.2) a surety bond, it shall be accompanied by a certification by the Insurance Commission that the surety or insurance company is authorized to issue such instruments;
- (ii) Conformity with technical specifications, as enumerated and specified in Sections VI and VII of the Bidding Documents; and
- (iii) Sworn statement in accordance with Section 25.3 of the IRR of RA 9184 and using the form prescribed in Technical Specifications
- (iv)

(v) Item	Specifications and Requirements	Statement of Compliance
		Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples,

		independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.a)(a)(ii) and/or GCC Clause 2.a)(a)(ii).
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Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
Item Name:	Detailed Specifications:	
1. COOLING SYSTEM		
1.1 Two (2) units Air Conditioner	2.0HP Single split inverter type wall mounted 220 V 1PH atleast 57 hZ, with wireless remote Cooling Capacity – 16,557 (2,983-17,500) Power Consumption – 1,487 (227-1,718)	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Energy Efficient / EER – 10.3 (12.5-9.9) Sound Level@ Low – at least 45/35.3/ 23.7 Voltage,Frequency, Phase- 230-59-1 Ozone Friendly Refrigerant : Type- R410-A Physical Data (Indoor Net Dimension) W X H X D- 793 X 287 X 225 Physical Data (Outdoor Net Dimension) W X H X D – 777 X 545 X 287 Pipe Sizes (Liquid / Gas) – ϕ 6.35 / ϕ 12.7 Maximum Pipe Length – at least 18.5 One year warranty	
2. DATA CENTER, POWER SYSTEM, MONITORING AND CONTROL SYSTEM		
2.1 One (lot) monitoring and control system with provision for anti-static setup and power system for a data center	<p>Control and Monitoring System: Supports Up to 6 intelligent sensor Virtual Sensors monitor power, Modbus, network devices, and other SNMP based equipment. Built-in graphing and data logging, internally or to a remote PC. Platform independent; free firmware upgrades and utilities. Enables Access Control of 2 Doors using single Door Control unit Supports Internal Audio Speaker Supports Internal Microphone Support 6 Full Auto Sense RJ-45 ports At least 3x RJ-45 Expansion Ports Capable of 10/100Mbps Ethernet Port Embedded web server display sensor information and live video from connected cameras Integrates with network management system via SNMPv1 and Encrypted SNMPv3 Stream sensor information directly to cellphone or PDA ability to connect external GPRS/ GSM modem, Bluetooth and Wi-Fi USB adapters. Uses Linux operating system One year warranty</p> <p>Power System: Supply and installation of cable ladders (150mm wide for cable raceway power cable, 300mm wide for cable raceway power cable) Supply and Installation of 3-phase electrical power distribution system, electrical cabinet, convenience power outlets, LED lighting fixtures, switches, and all electrical materials and accessories, including feeder line wires and components, royal cords, THHN wires, main and sub breakers and panel boards for the UPS, AC, and other auxiliary systems inside the server room.</p> <p>Raise floor:</p>	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Supply and installation of raised flooring Supply and installation of 900mm x 2100mm x 12mm glass panel door, top and bottom analog frame Inclusive of painting works (as needed) and finishing, raised flooring, with all restoration works required for a 3m x 4m room	
2.2 One (1) set Door Access Control System	Should be capable to be integrated to monitoring and control system through a software command control application and platform. Capable of higher level of integration to the following system : CCTV Surveillance System, Car Parking, Intrusion System, Elevator / Lift Control, Point. Includes fingerprint controller, Exit reader, power supply in metal enclosure, Mifare Cards. One (1) year Warranty	
2.3 Two (2) pcs. Inline power Meter	23cm power in / out cable with bare ends	
2.4 One (1) pc. Rope water sensor	10 feet with sensing module, standard 18 feet non-sensing cable and 8 feet sensing rope	
2.5 One (1) pc. Single port temperature and Humidity sensor	Extension cable 5ft included	
2.6 One (1) pc. Airlink USB-based GSM/GPRS	Modem for text alert	
3. FIRE SUPPRESSION SYSTEM		
3.1 One (1) lot Fire suppression system	In accordance with the guidelines contained in NFPA 72 (2002), approved by Factory Mutual (FM), ANSI 864, 9th edition, UL Listed to ANSI 864. Capable of suppressing surface burning fire in Class A, B and C hazards. Ozone depleting potential (ODP) is zero Component Specification: a. Beta cylinder assembly to be filled with at least 65 lbs and 36 lbs agent (1 unit) b. Complete Kit, with accessories, 24VDC c. Discharge Tube, Valve outlet adapter d. 360 degree Discharge Nozzle 8 port (2 Ea) e. Single releasing control Panel f. Back-up Battery. 12VDC (2 units) g. Smoke detector Ionization Sys Sensor h. Smoke detector Photoelectric Sys Sensor	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	i. Standard base two wire (4 units) j. Manual release station (1 unit) k. Abort toggle switch station l. at least 5.5" diameter fire alarm (1 unit) m. Horne strobe system sensor (1 unit) One (1) year warranty	
4. SERVER		
4.1 One (1) set 2U Rackmount Server	Processor: 5198 2.1 Ghz 32-Core Xeon Gold Processors Chipset: Intel C621 Memory: at least 118gb DDR4 2666 ECC Registered; 10DIMM slots, Expansion Slots: atleast 3 x PCI-E 3.0 x 6 (FHHL), 2 x PCI-E 3.0 x 6 (LP), 1 x PCI-E 3.0 x14 for Add-on-Module (AOM), 1 x PCI-E 3.0 x 3 NVMe M.2 slot Onboard LAN: 2 x 1GbE LAN ports via Intel C621 Onboard Graphics: ASPEED AST2500 BMC Storage Controller: Broadcom 3108 SAS / SATA add-on controller 2GB 1866MHz DDR3 on-card cache Storage: 3 x 4TB SATA Enterprise 7200 RPM RAID 5 Drive Bays: atleast 6 x Hot-swap 3.5" SAS/SATA drive bays Power Supply: 998.5 W Redundant PSU Titanium Level (96% Efficiency) Cooling System: 3 x Hot-swap 7cm redundant PWM cooling fans, Format Factor: 2U Rackmount Three (3) years Warranty / 8 x 5 Next Business Days service, parts and labor	
4.2 One (1) lic. Operating System	Windows Sever Datacenter 2019 64Bit English 1pk DSP OEI DVD 24 Core	
5. RACK SYSTEM AND PDUs 42U		
5.1 One (1) set 42U Rack	With 595.5 X1069.5 C/W perforated doors w/ lock and key, slit slide panels, EIA Mounting rails; leveling feet; color black curved front door. A complete rack includes all of the following: <ol style="list-style-type: none"> 1. Rack Frame 2. Top cover 3. Front door 4. Split side panels 5. Cage nuts, washer and screw (48 sets) 6. Vertical cable panels for cable and mounting of PDU (2pcs) 7. Foot levelers (4pcs) 8. Rack Connector (2sets- 4pcs per rack) 9. All connection and accessories and screws 10. Rack basic PDU : at least 30A C20, 18way c13 + 2 way C18 meter, Black 11. Basic PDU, 8x14-14 Socket, 1U, Black Phil flex Royal Cord 3C #10 (55m)	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Twist Lock Outlet Set 4 sets	
5.2 One (1) set of Console Table and Chair	Standard office table and chair	
6. IT EQUIPMENT & VIDEO CONFERENCING SYSTEM FOR BOARD ROOM, TRAINING ROOM & CONFERENCE ROOM		
6.1 One (1) set Video Conferencing Main Unit	<p>Support Multi-cast. Capable of Dual Network. Support Cascade Mode Application. Capable of Recording with USB Memory</p> <p>Enabling High-Definition Web Conferences. Broadband Stereo Full Duplex Audio. High quality video Full-HD 1080/60p</p> <p>Adjusts data traffic based on network congestion through the use of Rate Control function. With Remote Camera Control</p> <p>With a unique Echo Canceller and with Smooth 2-way conversation with broadband stereo. Easy-to-understand remote lectures and seminars are conducted at multiple sites</p> <p>Connect to a sub-camera to share zoom and still images</p> <p>Compatible with other brand device. With Low Bandwidth Communication Support</p> <p>External Control Interface</p> <p>Communication Method: SIP, H.323</p> <p>Video Compression Method : H.260.5 (mainstream only), H.263, H.263+, H.263++ (reception only), H.263 High Profile, H.263 Baseline Profile</p> <p>Audio Compression Method: G.711 μ-law, A-law (3.4 kHz@64 kbps) G.722 (7.0 kHz@64 kbps) G.722.1 (7.0 kHz@32 kbps)</p> <p>G.722.1 Annex C (14.0 kHz@48 kbps/24 kbps)</p> <p>MPEG-4 AAC-LD Mono (7.0 kHz@32 kbps, 14.0 kHz@64 kbps, 22.0 kHz@96 kbps)</p> <p>MPEG-4 AAC-LD Stereo (14.0 kHz@64 kbps, 22.0 kHz@96 kbps)</p> <p>No. of Channels: G.711/G.722/G.722.1/G.722.1 Annex C: 1</p> <p>MPEG-4 AAC-LD Mono: 1/ MPEG-4 AAC-LD Stereo: 2</p> <p>Remote Camera Control: H.223, H.279 (Zoom/Pan/Tilt/Preset)</p> <p>Dual Stream - Method: H.235 (H.321), BFCP (SIP)</p> <p>Multi-Monitor: atleast 2 displays</p> <p>No. of Applicable Resolution Frames - Main: Max. 1080p 25 frames/second, Sub: Max. 1080p 25</p>	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<p>frames/second</p> <p>Encryption: SRTP (AES 126 bit), H.234 (AES 126 bit)</p> <p>Other: H.460</p> <p>Communication Bandwidth: 253 kbps to 22 Mbps</p> <p>Video Compatible Resolutions*1: 176 x 144p, 352 x 240p, 352 x 288p, 512 x 288p, 640 x 480p, 704 x 480p, 704 x 576p, 768 x 432p, 800 x 600p, 1024 x 768p, 1280 x 720p, 1280 x 768p, 1280 x 800p, 1920 x 1080p</p> <p>No. of Frames : Max. 57 frames/second (for H.264 1080p)</p> <p>Screen Display : Full-screen, Picture in Picture, Picture with Picture, Side by Side</p> <p>Audio : Echo canceller, Auto gain control, Stationary noise reduction, Lip synch, Equalizer, Mic mute</p> <p>I/O Terminals</p> <p>Video Input : Camera*2: HDMI main x 1, HDMI sub x 1 Input resolution: 1280 x 720p, 1920 x 1080i, 1920 x 1080p</p> <p>PC : RGB x 1(Mini D-sub 13pin), HDMI x 1*2 Input resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full-HD</p> <p>Video Output : HDMI x 2, HDMI x 1 (For own site/recording video), RCA x 1 (Component) Supported output resolutions: 1918 x 1080i, 1918 x 1080p</p> <p>Audio Input : Digital Boundary Microphone x 1 (KX-VCA001) Max. 4, Analogue Boundary Microphone x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*3*4 x 1 (ø3.5 mm), RCA*5 (Stereo) x 1</p> <p>Audio Output : HDMI*6, Stereo mini-plug*3*7 x 1 (ø3.5 mm), RCA*8 x 1 (Stereo)</p> <p>Network : RJ45 x 2 (1000BASE-T/100BASE-TX Full Duplex)</p> <p>External Control: RS-232C x 1 (Also used for maintenance)</p> <p>Others: USB 2.0*9 x 1, Camera Control Terminal x 1 (Not used)</p> <p>No. of Simultaneous Connection Sites: 16 (Expandable up to 24)</p> <p>Content Sharing: PC (RGB/HDMI), Sub-camera (HDMI sub)</p> <p>USB Host Mode (USB Memory): Updating Software, Recording, Import: Contact List / Profile*10 / Configuration Data / Encryption Data / Start-up Screen / Delivery Tree List Export: Contact List / Profile*10 / Configuration Data / Encryption Data / Delivery Tree List</p> <p>USB Device Mode: USB Video Class: Version 1.0 USB Audio Class: Version 1.0</p> <p>Network Protocol: TCP/IPv4, TCP/IPv6*11, UDP/IPv4, UDP/IPv6*11, DHCP, DNS, HTTP, HTTPS, TELNET, NTP</p>	

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	<p>Network Functions: Packet resending (ARQ), Forward Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary Port Setting, NAT Compatibility, Encryption, IP Precedence/DiffServ Support</p> <p>External Control: Via Web Browser, Control by HTTP CGI, TELNET, RS-232C</p> <p>Connection Modes: IP mode, NAT Traversal mode, IP / NAT Traversal mode</p> <p>Dimensions (width x depth x height): Approx. 318 mm x approx. 267 mm x approx. 59 mm (Excluding projecting parts)</p> <p>Weight: Approx. 3.3 kg (approx. 7.3 lb)</p> <p>Power Input: AC 100-240 V, -1.0 A, 45/55 Hz</p> <p>Power Consumption: Maximum: approx. 70 W, Standby: 0.5 W</p> <p>DC Power Input: DC 24 V, 2.5 A</p> <p>Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)</p> <p>Operating Humidity: 10 % to 90 % (non-condensing)</p> <p>Language: English, German, French, Italian, Spanish, Dutch, Portuguese, Japanese, Russian, Chinese, Arabic</p> <p>With 1 free HDVC Mobile License for 1 year</p> <p>One (1) year warranty</p>	
6.3 Three (3) set Video Conferencing Microphone	<p>Maximum Pickup Range : Approx. 3.5 m (radius)</p> <p>Pickup Method : Stereo / Monaural *11.5</p> <p>"Microphone Unit : Unidirectional ECM microphone parts at least x 3"</p> <p>Number of Connections : Maximum 4 microphones</p> <p>Maximum Input Sound Pressure : 105 dBSpl</p> <p>Number of Terminals for Microphone Connection : 2</p> <p>Dimensions : Approx. 118 mm (diameter) x 25 mm</p> <p>Cable Length : Approx. 7.5 m</p> <p>Power Input : Supplied from main unit via proprietary cable</p> <p>Weight : Approx. 275 g</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p> <p>One (1) year warranty</p>	
6.4 One (1) set Extension Cable for Microphone unit	<p>Dimensions (diameter x length) : 7 mm (cable outer diameter) x 20 m</p> <p>Weight : 1.3 kg</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p>	
6.5 One (1) set Video Conference Camera	<p>Effective Pixels: 1918 x 1080i, 1918 x 1080p</p> <p>Pan / Tilt : Pan: ±95°, Tilt: ±19°</p> <p>Zoom (optical/digital) : 2x / 3x</p> <p>Angle of view (optical zoom) : Horizontal angle of view, 80° (Wide end) – 29.5° (Tele end), Vertical angle of view 65.4° (Wide end) -, 20.5° (Tele end), F1.2 (Wide end) -, F2.1 (Tele end); Presets : at least 10 positions</p> <p>Connection Cable : HDMI</p>	

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	<p>Dimensions (width x depth x height) : Approx. 130 mm x approx. 125 mm x approx. 134 mm</p> <p>Weight : Approx. 0.6 kg</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p> <p>One (1) year warranty</p>	
6.6 One (1) set LCD Laser Projector	<p>Technology: Laser LCD. Brightness: at least 5 000 - 5 450 lumens. Power Supply AC 100-240 V, 45.5- 58 Hz</p> <p>Power Consumption: *1 435W (during standby) Approx. 0.4 W (When [STANDBY MODE] is set to [ECO]) Approx. 20 W (When [STANDBY MODE] is set to [NORMAL]) Approx. 47 W(When [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and USB memory is inserted in the terminal) Approx. 115 W(When [QUICK STARTUP] is set to [ON], [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and the power is supplied from the terminal</p> <p>BTU Value: Max 1,533BTU</p> <p>LCD Panel Panel Size: 17.3 mm (0.76 inches) diagonal (16:10 aspect ratio)</p> <p>LCD Panel Display Method:Transparent LCD panel (x 3, R/G/B)</p> <p>LCD Panel Drive Method: Active matrix method</p> <p>LCD Panel Pixels:2,299,000 (1918 x 1198) x 3, total of 6,899,000 pixels</p> <p>Light Source: Laser Diode Laser class 1(Class3R for US models)</p> <p>Illumination Life of Set: Varies depending on operation mode setting. 20,000 hours at half luminance * IEC62087: 2008 Broadcast contents, Dynamic contrast [2], Temperature: 30°C (86F), Under conditions of 0.15 mg/m 3 of particulate matte</p> <p>Projection Size: 1.02–10.16 m (40–400 inches) diagonally, 16:10 aspect ratio</p> <p>Light output * 5 000 - 5 450 lumens (Input signals: PC, Operating mode: Normal, Dynamic mode)</p> <p>Center-to-Corner Uniformity: 90%</p> <p>Contrast Ratio: *1 2,999,000:1(all white/all black)(Dynamic Contrast 1 or 2) (Input signals: PC, Operating mode: Normal, Dynamic mode)</p> <p>Resolution: WUXGA 1918 x 1198 pixels</p> <p>Scanning Frequency RGB: fH: 15- 91kHz, fV: 24 - 100Hz, dot clock: 162 MHz or less</p> <p>Scanning frequency YPBPR(YCBCR): 480i (525i): fH 15.73 kHz; fV 59.94 Hz, 576i (625i): fH 15.63 kHz; fV 50 Hz, 480p (525p): fH 31.47 kHz; fV 59.94Hz, 576p (625p): fH 31.25 kHz; fV 50 Hz, 720 (750)/60p: fH 45.00 kHz; fV 60 Hz, 720 (750)/50p: fH 37.50 kHz; fV 50 H z, 1080 (1125)/60i: fH 33.75 kHz; fV 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fV 50 Hz, 1080 (1125)/25p: fH 28.13 kHz; fV 25 Hz, 1080 (1125)/24p: fH 27.00 kHz; fV 24 Hz, 1080 (1125)/24sF: fH 27.00 kHz; fV 48 Hz, 1080 (1125)/30p: fH 33.75 kHz; fV 30 Hz, 1080 (1125)/60p: fH</p>	

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	<p>67.50 kHz; fV 60 Hz, 1080 (1125)/50p; fH 56.25 kHz; fV 50 Hz</p> <p>Scanning Frequency Video: fH: 14.70 kHz / 15.20 kHz fV: 55.55 Hz / 45.5 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]</p> <p>Scanning Frequency HDMI/DIGITAL LINK: · Moving image signal resolution: 480i (525i)*2, 576i (625i)*2, 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p, 1080 (1125)/50p Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace) · Dot clock frequency: 25 MHz to 162 MHz</p> <p>Optical Axis Shift: Vertical ±67%, Horizontal ±35% (Supplied lens/ET-ELS20/ET-ELW20/ET-ELT20/ET-ELT21) Vertical ±60%, Horizontal ±30% (ET-ELW22)</p> <p>NOTE: Optical axis shift function cannot be operated when used with the ET-ELW21.</p> <p>Installation: Ceiling/desk/AUTO, front/rear, 360 degree free installation</p> <p>Speaker: 3.5 cm round-type x 1</p> <p>Maximum Usable Volume Output: 8.5 W (monaural)</p> <p>Terminals HDMI 1 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz)</p> <p>Terminals HDMI 2 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz)</p> <p>Terminals RGB 1 In: BNC (female) x 4, RGB/Y PB/PR (CB/CR)</p> <p>Terminals RGB 2 In: D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR)</p> <p>Terminals Monitor Out:D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR)</p> <p>Terminals Video In:Pin jack x 1</p> <p>Terminals Audio In 1: M3 stereo jack x 1(L-R)</p> <p>Terminals Audio In 2: M3 stereo jack x 1(L-R)</p> <p>Terminals Audio In 3: Pin jack x 2(L-R)</p> <p>Terminals Variable Audio Out: M3 jack, 0 V[rms] to 2.0 V[rms] variable, output imedance 2.2 k ohms and less</p> <p>Terminals Serial In: D-sub 9 pin, RS-232C compliant, for computer control use</p> <p>Terminals REMOTE 1:D-Sub 9 p (female) x 1, for external control (parallel)</p> <p>Terminals REMOTE 2:M3 jack x 1(L-R) for link control (for wired remote control)</p> <p>Terminals LAN: RJ-45 x 1 for network connection, 10/100Base-TX, compliant with PLink™(Class 2)</p> <p>Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compliant with PLink™(Class 2), Deep Color, HDCP</p> <p>Terminals VIEWER / PAIRING: USB type-A x 1</p>	

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	<p>Terminals DC Out: USB type-A x 1(DC 5V, 2A(Max)) Power Cord Length:3.0m(9ft 10in) Noise Level: *1 32dB (Operating mode: NORMAL/ECO), 26dB (Operating mode: QUIET) Operating environment Temperature: 0°C (32°F) to 45°C (113°F) The projector cannot be used at an altitude of 2,700 m (8,858') or higher above sea level. The light output may decrease to protect the projector when the operating environment temperature exceeds 36 °C (96.8 °F). Operating Environment Humidity: 20% to 80% (no condensation) One (1) year warranty</p>	
6.7 One (1) pc. Unmanaged PoE fiber switch	Support at least 20*3*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber slot ports, port 1-23 can support IEEE 802.3af/at PoE standard, Built-in 235W power supply. Support 1U/18 inch rack installation.	
6.8 One (1) pc. Router	Supports 802.11ac standard Simultaneous 2.4GHz 300 Mbps and 5GHz 867 Mbps connections for 1198 Mbps of total available bandwidth	
6.9 Two (2) sets Laser Projector	<p>Laser LCD, 4,500 – 4,900 lumens, WUXGA Compact and lightweight body bringing high brightness dynamic image Long lasting laser light source provide consistent brightness 1.3 x zoom and wide horizontal and vertical lens shift for flexible installation Long lasting laser light source and low-maintenance design provide high brightness and superb image quality Light output*1: 4,500 – 4,900 lumens Technology: Laser LCD LCD panel Panel size (mm): 14 mm diagonal (15:9 aspect ratio) LCD panel Panel size (inch): 0.62 inch diagonal (15:9 aspect ratio) LCD panel Display method: Transparent LCD panel (x 3, R/G/B) LCD panel Drive method: Active matrix LCD panel Pixels: 2,304,000 (1918 x 1198) x 3, total of 5,500,000 pixels LENS: 1.6 x Manual zoom (throw ratio 1.09-1.77 :1), F = 1.60-2.12, f = 15.30-24.64 mm Light source: Laser diode Screen size (diagonal) (mm): 0.76 - 7.62 m, 16:10 aspect ratio Screen size (diagonal) (inch): 25-298 in, 15:9 aspect ratio Center-to-corner uniformity*1: 85% Contrast*1: 2,999,000:1 (all white/all black) (Input signals:PC,LIGHT POWER:NORMAL,PICTURE MODE:DYNAMIC,DAYLIGHT VIEW:OFF,DYNAMIC CONTRAST:[1],AUTO POWER SAVE:OFF) Resolution: 1918 x 1198 pixels</p>	

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	<p>Optical axis shift Vertical (from center of screen): 0 % - +44 % (Manual)</p> <p>Optical axis shift Horizontal (from center of screen): - 20% - +20% (Manual)</p> <p>Keystone correction range*2: Vertical: $\pm 22^\circ$, Horizontal: $\pm 33^\circ$</p> <p>Installation: Horizontal/Vertical, free 360-degree installation</p> <p>Terminals HDMI 1/2 IN: HDMI 18-pin x 2 (Compatible with HDCP, Deep Color, 4K/30p signal input)</p> <p>Terminals COMPUTER 1 IN: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR)</p> <p>Terminals COMPUTER 2 IN / MONITOR OUT: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR) (input/output switching)</p> <p>Terminals VIDEO IN: Pin jack x 1</p> <p>Terminals AUDIO 1/2 IN: M3 stereo mini-jack x 2</p> <p>Terminals AUDIO 3 IN: Pin jack (L/R) x 1</p> <p>Terminals VARIABLE AUDIO OUT: M3 stereo mini-jack x 1</p> <p>Terminals SERIAL IN: D-sub 9-pin x 1 for computer control (RS-232C compliant)</p> <p>Terminals LAN: RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ (Class 2)</p> <p>Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK connection, HDBase-T™ compliant, 100Base-TX, compatible with PLink™ (Class 2), HDCP, Deep Color, 4K/28p signal input</p> <p>Terminals USB CONNECTOR: USB connector (Type A) x 1 for Memory Viewer function, power supply (DC5V, maximum 2A*3), optional wireless module AJ-WM50</p> <p>Power supply: AC 100-240 V AC, 45/55 Hz</p> <p>Power consumption: TBD</p> <p>Built-in Speaker: 10 W (monaural)</p> <p>Operating noise*1: NORMAL: 35dB, QUIET: 27dB</p> <p>Cabinet materials: Molded plastic</p> <p>Filter: Included</p> <p>Filter cleaning cycle: 18,500 hours (0.08 mg/m3 of particulate matter), 9,900 hours (0.15 mg/m3 of particulate matter)</p> <p>Dimensions (W x H x D) (mm): 399 x 115 x 348 mm (Not including protruding parts) 397 x 131 x 344 mm (With feet at shortest position)</p> <p>Dimensions (W x H x D) (inch): 15 23/32 x 4 17/32 x 13 11/16 inch (Not including protruding parts) 15 23/32 x 5 1/4 x 13 11/16 inch (With feet at shortest position)</p> <p>Weight (kg)*4: 7.2 kg</p> <p>Weight (lbs.)*4: 15.87 lbs.</p> <p>Operating environment (°C/M): Operating temperature: 0 °C- 45 °C, operating humidity: 20 %-80 % (no condensation)</p> <p>Operating environment (°F/Feet): Operating temperature: 32 °F -113 °F, operating humidity: 20 %-80 % (no condensation)</p>	

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	Applicable software/application: Logo Transfer Software, Multi Monitoring & Control Software, Presenter Light for Windows®, Wireless Projector Apps for iOS/Android™ With Ceiling mount bracket One (1) year warranty	
6.10 Three (3) pcs. 102.5" Motorized Screen (15:9)	Installation Options: Floating Wall Mount / Ceiling Mount / Suspended Mount (using the "L bracket"). Control Options: IR / RF / RS485 + Dry Contact Control / 3-12 Voltage Trigger Control / Central Control / IP. Control - • Colour: Black / Whit• Aluminum Casing	
6.11 Two (2) sets Amplifier System	<p>Minimum of 61W , 97 Volt Height- rack units (1U=43 mm) in U : 2 Depth (incl front) in mm : at least 293 Emergency power supply: 24 VDC Output power RMS 100 volts in watts : 63 Dynamic output power 100 volts in watts: 63 Output power tapings : 97 – 67 volts – 7 ohms MIC inputs balanced: 2 Line input unbalanced: 1 Priority switch : 1 Chime : yes Priority output : 0 Frequency response (in Hz) : 59 – 17 k Applicable in 100V : yes Net weight product (kg) : 5.39 Depth (build in) in mm : 273 Power supply : 115 - 230 VAC Power consumption (max) in watts : 167 Output power RMS 8 ohms in watts : 63 Minimum impedance load in ohms : 7 Zone outputs : 1 Inputs with Phantom power : 2 Tone control yes VOX mute: yes Emergency input : 0 Priority levels : 2 Cooling system: convection Applicable low impedance : yes</p> <p>Includes one (1) unit Multimedia player system: HDMI Full HD Support; Full HD Video; Full HD Sound; Full HD Microphone User Contents - Fast USB to HDD Transfer - Edit (Rename, Delete, Modify) - Auto Song Numbering assignment Recording function - MTV, Chorus, MIDI may be recorded - Transfer Recordings to USB - Edit (Rename, Delete, Modify) - External USB HDDs Supported via USB connectivity</p>	

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	<p>Multimedia Function</p> <ul style="list-style-type: none"> - Full Playback Function - avi, rmbv, mkv, mpg, wmv, etc. - mp3, wma, aac, wav, etc. - jpg, bmp, gif, etc. <p>Specifications:</p> <p>Processor: Cortex-A9 1.2GHz Dual core</p> <p>RAM: DDR3, 1GB Memory</p> <p>Operating System: Android 4.2 Jelly Bean</p> <p>Storage: 1TB HDD</p> <p>Microphone Input: Two (2) slots available</p> <p>Microphone Volume: Available</p> <p>Echo Volume: Available</p> <p>USB Compatibility: Two (2) USB 2.0 Port</p> <p>LED Backlit Buttons: Available</p> <p>TV Input Channel: HDMI</p> <p>: Video Out</p> <p>:YPbPr Video Out</p> <p>:Composite Video Out</p> <p>Background Video Input: Two (2) Input Available</p> <p>Audio Output :Analog Audio Out</p> <p>:Optical Audio Out</p> <p>:Coaxial Audio Out</p>	
6.12 Four (4) sets Wall Speaker	<p>Components</p> <p>At least 7" woofer with woven fiberglass cone</p> <p>1" PEI diaphragm tweeter with fluid cooling</p> <p>Contemporary, high-design appearance</p> <p>Built-in InvisiBall® mounting hardware, plus available U-bracket</p> <p>Weather resistant enclosure and transducers</p> <p>Wide 90° x 90° coverage</p> <p>115W power handling (235W program) in direct 7Ω setting, plus built-in 55W 65V/95V multi-tap transformer</p> <p>High fidelity sound character with broad frequency response of 40 Hz – 18 kHz</p> <p>System</p> <p>Frequency Range (-10 dB) - 40 Hz – 18 kHz</p> <p>Frequency Response (±3 dB) - 60 Hz – 15 kHz</p> <p>Power Rating: 235W Continuous Program (2 hrs) 118W (475W peak), Continuous Pink Noise (2 hrs) 90W (360W peak) Continuous Pink Noise (100 hrs)</p> <p>Maximum Input Voltage – 27.5 V RMS (2 hrs), 55.0 V peak</p> <p>Maximum SPL3 – 112 dB ave. Continuous Pink Noise (118 dB peak)</p> <p>Sensitivity – 91 dB, 1W/1m (ave. 100 Hz – 10 kHz)</p> <p>Coverage Angle - 90° x 90°</p> <p>Directivity Factor (Q) - 7.3 (averaged 1kHz – 16kHz)</p> <p>Directivity Index (DI) – 8.3dB (averaged 1kHz – 16kHz)</p>	

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	<p>Nominal Impedance – 7 ohms (THRU setting) Crossover Type - 2nd order low-pass, 1st order high-pass, plus conjugate shaping</p> <p>Circuitry Transformer Taps – 65V: 55W, 25W, 10W, 6.5W 95V: 55W, 25W, 10W Insertion Loss: <0.94 dB at any tap setting Thru Setting: 7Ω nominal Recommended Protective High-Pass – 6 45 Hz high-pass (24 dB/oct) for 8Ω operation plus 15W and 7.5W taps; 55 Hz for 30W tap; 65 Hz for 60W tap</p> <p>Transducers Low Frequency – 198 mm (8 in), woven-fiberglass cone with pure butyl rubber surround with Weather-Edge frame protection, high-temp fiberglass voice coil former, high-temp voice coil wire, optimized cone geometry, linear suspension spider, and FEA optimized motor structure High Frequency – 23 mm (1 in) PEI diaphragm, low-viscosity ferromagnetic fluid, and lightweight Kapton™ voice coil former</p> <p>Physical Enclosure Material - High Impact Polystyrene (HIPS) with 10% glass fill, painted with highly-UV resistant paint on white (-WH) version for maximum UV fade resistance Grille – Highly zinc-plated, finished in durable TGIC polyester powder coating. MTC-28WMG-1 (&-WH) available with Weather-Max™ multi-layer foam and tight-weave mesh vapor barrier backing. Installation – InvisiBall wall-mounting system included. Two 6 mm attachment points (on top and bottom) for optional MTC-28WMG-1 (&-WH) U-bracket. Secondary safety attachment loop point on back panel. Agency Rating – ROHS-compliant; Transformer UL Recognized per UL1876 Dimensions - (H x W x D)7 386 x 282 x 219 mm (15.2 x 11.1 x 8.6 in); 277 mm (10.9 in) deep total when mounted on InvisiBall wall-mount bracket; Net Weight – 6.8 kg (15.0 lbs) One (1) year warranty</p>	
6.13 Two (2) sets Dual Handheld Microphone	<p>Designed metal housing with distinctive Aesthetic and ergonomic style Interchangeable capsule module with premium condenser Patented capsule suspension design virtually Eliminates vibration and handling noises Built-in high-efficiency antenna Backlit LCD displays all operational parameter information Provides precise and rapid frequency sync to the receiver</p> <p>Technical Specifications Frequency Range – UHF 478 – 931 MHz Bandwidth – 21 MHz Oscillation Mode – PLL Synthesized</p>	

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	RF Output Power - 9 ~ 27mW (country dependent) Deviation - < ± 40 kHz Spurious Emissions < -53 dBc LCD Display - Group, Channel, Battery status & error codes Max. SPL – 135 dB SPL Battery Type - 2 x AA alkaline Operating Time – Min. 12 hours (Low Power) Current Consumption – Approx. 92 mA Dimensions - (Ø x L) 51 x 234 mm 2 x 9.2 " Net Weight - Approx. 251 g 8.9 oz	
6.14 One (1) lot Speaker cable transparent #16 AWG, Interconnector	(XLR Male to XLR Female 1m), 3.5mm stere plug-2 X RCA Plug (1.5m)	
7. PABX EQUIPMENT		
7.1 One (1) set PBX Main Unit	Support Multi-site networking. SIP Networking for Low cost. Flexible expansion by adding activation key. Support small to large communication system. Up to maximum 992 (with DXDP 1152) Extensions. Built-in support for Advanced IP extensions as well as standard SIP phones. Easy Migration to IP SIP trunking Integrated SIP telephony via ITSPs* and other SIP trunk Providers. It is a high intuitive PC Based application suit that blend powerful point and click telephony. Wireless Mobility Solutions. Built-in and Optional Voice Mail Processing system. Reduced Total Cost of Ownership.	
7.2 Two (2) sets 24-Port SLT Extension Card	Physical Extension Cards with Caller ID and Message Lamp Card	
7.3 One (1) set 8-port Digital Extension Card	Physical Extension Cards	
7.4 One (1) set Power Supply unit	L-Type	
7.5 One (1) set Back-up battery Cable	included	
7.6 One (1) set 16-ch VoIP DSP Card	16 channel digital signal processor card with one 4 channel IP trunk SHGW4 activation key and one 8	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	channel IP proprietary telephone IPPT8 activation key pre-installed Compliant with ITU-T G.729a and G.711 codec methods Mounts on IPCMPR card	
7.7 Three (3) sets 3-Line LCD Digital Proprietary Telephone	3-Line Backlight LCD Display; 24 Flexible CO Buttons Full Duplex Speakerphone; EHS Support Specifications: Main LCD Display (Lines/Characters) – 3/16 LCD Backlight- Yes Flexible CO Keys – 24 Navigator Keys- Yes Soft Keys – 4 Call Log Incoming/Outgoing Calls- Yes / Yes Speakerphone - Yes (Full Duplex) Headset Port – Yes Electric Hook Switch (EHS)*1 – Yes Dimensions (mm) *2 (Width x Depth x Height) High Position267x170x180Low Position267x187x155Weight (g)*31070ColorBlack, White	
7.8 One (1) set 1-Line Digital Proprietary Telephone	1-line Graphical LCD with backlighting; 8 freely programmable function keys; Speaker Phone, handset and headset with full duplex; Available in black and white colour Specification: LCD Type - Graphic LCD Dots (W x H) 160 x 18 LCD Line 1 LCD Character 16 LCD Backlight Yes (On/Automatic/Off) Headset Yes (2.5 mm audio jack) Full Duplex Electronics Hook Switch (EHS) No Speakerphone Yes (Full Duplex) External Expansion 1 DXDP port Bluetooth (for Headset) No DXDP Yes XDP No Data Transmission Capability PBX to DPT: Cable fÓ0.5 mm 500 m DPT to DPT: Cable fÓ0.5 mm 50 m Wall Mount Kit Yes (Option) Dimension (W x D x H mm) LOW: 205 x 160 x 170 FF Keys 8 Soft Keys No 0-9, *, # Keys Yes Redial Key Yes Flash/Recall Key Yes	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Hold Key Yes SP-Phone Key Yes Auto Answer/Mute Key Yes Auto Dial/Store Key Yes Transfer Key Yes Intercom Key Yes Pause Key - Yes CONF Key - Yes FWD/DND Key No Message Key Yes Navigator Key No 4-Directions Key Yes Cancel Key No LED Message/Ringer Lamp Yes (Green/Red) LED FF Keys Yes (Green/Red) LED Intercom Yes (Green) LED SP-Phone Yes (Red) LED Auto Answer/Mute Yes (Red) LED Auto Dial/Store Yes (Red) LED CONF No LED FWD/DND Yes (Red) Message/Ringing Lamp Yes OHCA Yes Bluetooth Headset Adapter No Auto Redial No Off-Hook Monitor Yes Handset/Headset Mic Mute Yes Speakerphone Mic Mute Yes Phone Directory Yes Feature Access No Outgoing Call Log Yes Incoming Call Log Yes Audio Codec Yes (G.711) USB Unit I/F No System Programming No Station Programming Yes*1 Electric Volume Headset 6 levels Electric Volume Handset 6 levels Electric Volume Speakerphone 8 levels Electric Volume Ringer 4 + Off LCD Contrast 4 levels Tones/Music Ring Tone 8 Tones/Music on Hold No (Tone) Footnote *1 To operate by PROGRAM Key or PAUSE Key	
7.9 One (1) set 4-Ch IP Trunk	4-Channel H.323/SIP Gateway Activation Key	
7.10 Twelve (12) sets Basic Single Line Telephone	Integrated Telephone System Choice of Five Colors: black, white, red, dark blue and grey; Wall Mountable; Last Number Redial; Timed Flash	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Electronic Volume Control; 3-Step Ringer Selector Switchable Tone/Pulse Settings Specifications: Dial Mode: Tone (DTMF)/pulse Redial: One-touch (32 digits) Flash: 600 ms Power Source: Telephone line Dimensions (H x W x D): 96 mm x 150 mm x 200 mm Weight: 475 g	
7.11 One (1) set AVR 1000W	included	
7.12 Three (3) sets 12V Battery	included	
7.13 Five (5) sets Krone Terminal	included	
7.14 Three (3) sets Amphenol Cable with Head	included	
8. Supply and installation of IT equipment for the data center and other ICT equipment. Including (Refrigerant piping type M hard drawn copper pipe) and ACCU to FCU electrical power supply (THHN Philflex) with PVC flexible conduit. 1" diameter PVC condensate drain	included	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
<p>pipe including insulating using 3/8" thick rubber insulation wrapped with polyethylene tape. Installation of FM200. installation of fire suppression control panel, programming and configuration. Installation of monitoring and access control system, configuration, testing and commissioning. PABX installation, tracing, termination, programming and testing. Tracing, termination and programming for HD visual communication system, projectors and audio system. Testing and commissioning of all equipment, miscellaneous and consumables and training of all the system and integration.</p>		
9. OTHER		

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
REQUIREMENTS		
	9.1 To ensure the quality of service, the contractor shall submit the following documents:	
	Supplier must have at least five (5) years of experience in supply, delivery, installation, testing and commissioning of network equipment and structured cabling system / Data Center Solution.	
	Supplier must have completed at least one (1) similar projects in supply, delivery, installation, testing and commissioning of network equipment and Data Center Solution.	
	The supplier shall submit implementation time-line that reflects all the milestones in Gantt chart.	
	Supervised by a Certified License Electronics and Communication Engineer.	
	Supplier must have at least Three (3) Certified Data Center Professionals (CDCP) duly employed by the company for at least 5 years and above.	
	Managed by a registered Project Manager (PM) and shall submit a certificate issued by the Project Management Institute (PMI).	
	Contractors must have Philippine Contractors Accreditation Board (PCAB) licenses required by Republic Act 4566 to perform telecommunications/communications installations.	
	The contractor shall be responsible for all required permits.	
9.2 Maintenance / Support	One (1) year maintenance with quarterly preventive maintenance visit	
9.3 Warranty	One (1) year parts and services One (1) year Workmanship	
9.4 Training	Operations and Maintenance Training prior to the acceptance of the project. Including lectures and actual demonstration for at least 8 hours for minimum of ten (10) participants.	
9.5 Delivery / Project Duration	Project must be completed within 120 days upon receipt of Notice to Proceed	
9.6 Operations & Maintenance Manual (English)	Included	

- (vi) Section VIII. Bidding Forms.
- (vii) For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos, a certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item or product.

13. Documents Comprising the Bid: Financial Component

- a) Unless otherwise stated in the **BDS**, the financial component of the bid shall contain the following:

- (a) Financial Bid Form, which includes bid prices and the applicable Price Schedules, in accordance with **ITB** Clauses 15.a) and 15.d);
 - (b) If the Bidder claims preference as a Domestic Bidder, a certification from the DTI issued in accordance with **ITB** Clause 27, unless otherwise provided in the **BDS**; and
 - (c) Any other document related to the financial component of the bid as stated in the **BDS**.
- b)
 - (a) Unless otherwise stated in the **BDS**, all bids that exceed the ABC shall not be accepted.
 - (b) Unless otherwise indicated in the **BDS**, for foreign-funded procurement, a ceiling may be applied to bid prices provided the following conditions are met:
 - (i) Bidding Documents are obtainable free of charge on a freely accessible website. If payment of Bidding Documents is required by the procuring entity, payment could be made upon the submission of bids.
 - (ii) The procuring entity has procedures in place to ensure that the ABC is based on recent estimates made by the responsible unit of the procuring entity and that the estimates reflect the quality, supervision and risk and inflationary factors, as well as prevailing market prices, associated with the types of works or goods to be procured.
 - (iii) The procuring entity has trained cost estimators on estimating prices and analyzing bid variances.
 - (iv) The procuring entity has established a system to monitor and report bid prices relative to ABC and engineer's/procuring entity's estimate.
 - (v) The procuring entity has established a monitoring and evaluation system for contract implementation to provide a feedback on actual total costs of goods and works.

14. Alternative Bids

- 14.1 Alternative Bids shall be rejected. For this purpose, alternative bid is an offer made by a Bidder in addition or as a substitute to its original bid which may be included as part of its original bid or submitted separately therewith for purposes of bidding. A bid with options is considered an alternative bid regardless of whether said bid proposal is contained in a single envelope or submitted in two (2) or more separate bid envelopes.
- 14.2 Each Bidder shall submit only one Bid, either individually or as a partner in a JV. A Bidder who submits or participates in more than one bid (other than as

a subcontractor if a subcontractor is permitted to participate in more than one bid) will cause all the proposals with the Bidder's participation to be disqualified. This shall be without prejudice to any applicable criminal, civil and administrative penalties that may be imposed upon the persons and entities concerned.

15. Bid Prices

- a) The Bidder shall complete the appropriate Schedule of Prices included herein, stating the unit prices, total price per item, the total amount and the expected countries of origin of the Goods to be supplied under this Project.
- b) The Bidder shall fill in rates and prices for all items of the Goods described in the Schedule of Prices. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, Schedule of Prices, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0) or a dash (-) for the said item would mean that it is being offered for free to the Government, except those required by law or regulations to be accomplished.
- c) The terms Ex Works (EXW), Cost, Insurance and Freight (CIF), Cost and Insurance Paid to (CIP), Delivered Duty Paid (DDP), and other trade terms used to describe the obligations of the parties, shall be governed by the rules prescribed in the current edition of the International Commercial Terms (INCOTERMS) published by the International Chamber of Commerce, Paris.
- d) Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - (a) For Goods offered from within the Procuring Entity's country:
 - (i) The price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable);
 - (ii) The cost of all customs duties and sales and other taxes already paid or payable;
 - (iii) The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - (iv) The price of other (incidental) services, if any, listed in the **BDS**.
 - (b) For Goods offered from abroad:
 - (i) Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted DDP with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers

registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

- (ii) The price of other (incidental) services, if any, listed in the **BDS**.
- (c) For Services, based on the form which may be prescribed by the Procuring Entity, in accordance with existing laws, rules and regulations
- e) Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation or price escalation on any account. A bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected, pursuant to **ITB** Clause 24.

All bid prices for the given scope of work in the contract as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances. Upon the recommendation of the Procuring Entity, price escalation may be allowed in extraordinary circumstances as may be determined by the National Economic and Development Authority in accordance with the Civil Code of the Philippines, and upon approval by the GPPB. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GOP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

16. Bid Currencies

- a) Prices shall be quoted in the following currencies:
 - (a) For Goods that the Bidder will supply from within the Philippines, the prices shall be quoted in Philippine Pesos.
 - (b) For Goods that the Bidder will supply from outside the Philippines, the prices may be quoted in the currency(ies) stated in the **BDS**. However, for purposes of bid evaluation, bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the *Bangko Sentral ng Pilipinas* (BSP) reference rate bulletin on the day of the bid opening.
- b) If so allowed in accordance with **ITB** Clause a), the Procuring Entity for purposes of bid evaluation and comparing the bid prices will convert the amounts in various currencies in which the bid price is expressed to Philippine Pesos at the foregoing exchange rates.
- c) Unless otherwise specified in the **BDS**, payment of the contract price shall be made in Philippine Pesos.

17. Bid Validity

- a) Bids shall remain valid for the period specified in the **BDS** which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.
- b) In exceptional circumstances, prior to the expiration of the bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. The bid security described in **ITB** Clause 18 should also be extended corresponding to the extension of the bid validity period at the least. A Bidder may refuse the request without forfeiting its bid security, but his bid shall no longer be considered for further evaluation and award. A Bidder granting the request shall not be required or permitted to modify its bid.

18. Bid Security

- a) The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount stated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the following schedule:

Form of Bid Security	Amount of Bid Security (Not Less than the Percentage of the ABC)
<p>(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.</p> <p><i>For biddings conducted by LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i></p>	Two percent (2%)
<p>(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.</p> <p><i>For biddings conducted by LGUs, Bank Draft/Guarantee, or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i></p>	

(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (5%)
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The Bid Securing Declaration mentioned above is an undertaking which states, among others, that the Bidder shall enter into contract with the procuring entity and furnish the performance security required under ITB Clause 33.2, within ten (10) calendar days from receipt of the Notice of Award, and commits to pay the corresponding amount as fine, and be suspended for a period of time from being qualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as provided in the guidelines issued by the GPPB.

- b) The bid security should be valid for the period specified in the **BDS**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.
- c) No bid securities shall be returned to Bidders after the opening of bids and before contract signing, except to those that failed or declared as post-disqualified, upon submission of a written waiver of their right to file a request for reconsideration and/or protest, or upon the lapse of the reglementary period to file a request for reconsideration or protest. Without prejudice on its forfeiture, bid securities shall be returned only after the Bidder with the Lowest Calculated Responsive Bid (LCRB) has signed the contract and furnished the performance security, but in no case later than the expiration of the bid security validity period indicated in **ITB** Clause b).
- d) Upon signing and execution of the contract pursuant to **ITB** Clause 32, and the posting of the performance security pursuant to **ITB** Clause 33, the successful Bidder's bid security will be discharged, but in no case later than the bid security validity period as indicated in the **ITB** Clause b).
- e) The bid security may be forfeited:
 - (a) if a Bidder:
 - (i) withdraws its bid during the period of bid validity specified in **ITB** Clause 17;
 - (ii) does not accept the correction of errors pursuant to **ITB** Clause 28.c)(b);
 - (iii) has a finding against the veracity of any of the documents submitted as stated in **ITB** Clause 29.2;
 - (iv) submission of eligibility requirements containing false information or falsified documents;

- (v) submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding;
 - (vi) allowing the use of one's name, or using the name of another for purposes of public bidding;
 - (vii) withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the LCRB;
 - (viii) refusal or failure to post the required performance security within the prescribed time;
 - (ix) refusal to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification;
 - (x) any documented attempt by a Bidder to unduly influence the outcome of the bidding in his favor;
 - (xi) failure of the potential joint venture partners to enter into the joint venture after the bid is declared successful; or
 - (xii) all other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.
- (b) if the successful Bidder:
- (i) fails to sign the contract in accordance with **ITB** Clause 32; or
 - (ii) fails to furnish performance security in accordance with **ITB** Clause 33.

19. Format and Signing of Bids

- a) Bidders shall submit their bids through their duly authorized representative using the appropriate forms provided in Technical Specifications
- b)

c)	Item	Specifications and Requirements	Statement of Compliance
			Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements

		<p>of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.a)(a)(ii) and/or GCC Clause 2.a)(a)(ii).</p>
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Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN’s customers, partners and stakeholders.		
Item Name:	Detailed Specifications:	
1. COOLING SYSTEM		
1.1 Two (2) units Air Conditioner	2.0HP Single split inverter type wall mounted 220 V 1PH at least 57 hZ, with wireless remote Cooling Capacity – 16,557 (2,983-17,500)	

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	Power Consumption – 1,487 (227-1,718) Energy Efficient / EER – 10.3 (12.5-9.9) Sound Level@ Low – at least 45/35.3/ 23.7 Voltage,Frequency, Phase- 230-59-1 Ozone Friendly Refrigerant : Type- R410-A Physical Data (Indoor Net Dimension) W X H X D- 793 X 287 X 225 Physical Data (Outdoor Net Dimension) W X H X D – 777 X 545 X 287 Pipe Sizes (Liquid / Gas) – ϕ 6.35 / ϕ 12.7 Maximum Pipe Length – at least 18.5 One year warranty	
2. DATA CENTER, POWER SYSTEM, MONITORING AND CONTROL SYSTEM		
2.1 One (lot) monitoring and control system with provision for anti-static setup and power system for a data center	<p>Control and Monitoring System: Supports Up to 6 intelligent sensor Virtual Sensors monitor power, Modbus, network devices, and other SNMP based equipment. Built-in graphing and data logging, internally or to a remote PC. Platform independent; free firmware upgrades and utilities. Enables Access Control of 2 Doors using single Door Control unit Supports Internal Audio Speaker Supports Internal Microphone Support 6 Full Auto Sense RJ-45 ports At least 3x RJ-45 Expansion Ports Capable of 10/100Mbps Ethernet Port Embedded web server display sensor information and live video from connected cameras Integrates with network management system via SNMPv1 and Encrypted SNMPv3 Stream sensor information directly to cellphone or PDA ability to connect external GPRS/ GSM modem, Bluetooth and Wi-Fi USB adapters. Uses Linux operating system One year warranty</p> <p>Power System: Supply and installation of cable ladders (150mm wide for cable raceway power cable, 300mm wide for cable raceway power cable) Supply and Installation of 3-phase electrical power distribution system, electrical cabinet, convenience power outlets, LED lighting fixtures, switches, and all electrical materials and accessories, including feeder line wires and components, royal cords, THHN wires, main and sub breakers and panel boards for the UPS, AC, and other auxiliary systems inside the server room.</p>	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Raise floor: Supply and installation of raised flooring Supply and installation of 900mm x 2100mm x 12mm glass panel door, top and bottom analog frame Inclusive of painting works (as needed) and finishing, raised flooring, with all restoration works required for a 3m x 4m room	
2.2 One (1) set Door Access Control System	Should be capable to be integrated to monitoring and control system through a software command control application and platform. Capable of higher level of integration to the following system : CCTV Surveillance System, Car Parking, Intrusion System, Elevator / Lift Control, Point. Includes fingerprint controller, Exit reader, power supply in metal enclosure, Mifare Cards. One (1) year Warranty	
2.3 Two (2) pcs. Inline power Meter	23cm power in / out cable with bare ends	
2.4 One (1) pc. Rope water sensor	10 feet with sensing module, standard 18 feet non-sensing cable and 8 feet sensing rope	
2.5 One (1) pc. Single port temperature and Humidity sensor	Extension cable 5ft included	
2.6 One (1) pc. Airlink USB-based GSM/GPRS	Modem for text alert	
3. FIRE SUPPRESSION SYSTEM		
3.1 One (1) lot Fire suppression system	In accordance with the guidelines contained in NFPA 72 (2002), approved by Factory Mutual (FM), ANSI 864, 9th edition, UL Listed to ANSI 864. Capable of suppressing surface burning fire in Class A, B and C hazards. Ozone depleting potential (ODP) is zero Component Specification: <ol style="list-style-type: none"> Beta cylinder assembly to be filled with at least 65 lbs and 36 lbs agent (1 unit) Complete Kit, with accessories, 24VDC Discharge Tube, Valve outlet adapter 360 degree Discharge Nozzle 8 port (2 Ea) Single releasing control Panel Back-up Battery. 12VDC (2 units) Smoke detector Ionization Sys Sensor 	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<ul style="list-style-type: none"> h. Smoke detector Photoelectric Sys Sensor i. Standard base two wire (4 units) j. Manual release station (1 unit) k. Abort toggle switch station l. at least 5.5" diameter fire alarm (1 unit) m. Horne strobe system sensor (1 unit) <p>One (1) year warranty</p>	
4. SERVER		
4.1 One (1) set 2U Rackmount Server	<p>Processor: 5198 2.1 Ghz 32-Core Xeon Gold Processors</p> <p>Chipset: Intel C621</p> <p>Memory: at least 118gb DDR4 2666 ECC Registered; 10DIMM slots, Expansion Slots: atleast 3 x PCI-E 3.0 x 6 (FHHL), 2 x PCI-E 3.0 x 6 (LP), 1 x PCI-E 3.0 x14 for Add-on-Module (AOM), 1 x PCI-E 3.0 x 3 NVMe M.2 slot</p> <p>Onboard LAN: 2 x 1GbE LAN ports via Intel C621</p> <p>Onboard Graphics: ASPEED AST2500 BMC</p> <p>Storage Controller: Broadcom 3108 SAS / SATA add-on controller 2GB 1866MHz DDR3 on-card cache</p> <p>Storage: 3 x 4TB SATA Enterprise 7200 RPM RAID 5</p> <p>Drive Bays: atleast 6 x Hot-swap 3.5" SAS/SATA drive bays</p> <p>Power Supply: 998.5 W Redundant PSU Titanium Level (96% Efficiency)</p> <p>Cooling System: 3 x Hot-swap 7cm redundant PWM cooling fans, Format Factor: 2U Rackmount</p> <p>Three (3) years Warranty / 8 x 5 Next Business Days service, parts and labor</p>	
4.2 One (1) lic. Operating System	Windows Sever Datacenter 2019 64Bit English 1pk DSP OEI DVD 24 Core	
5. RACK SYSTEM AND PDUs 42U		
5.1 One (1) set 42U Rack	<p>With 595.5 X1069.5 C/W perforated doors w/ lock and key, slit slide panels, EIA Mounting rails; leveling feet; color black curved front door.</p> <p>A complete rack includes all of the following:</p> <ol style="list-style-type: none"> 1. Rack Frame 2. Top cover 3. Front door 4. Split side panels 5. Cage nuts, washer and screw (48 sets) 6. Vertical cable panels for cable and mounting of PDU (2pcs) 7. Foot levelers (4pcs) 8. Rack Connector (2sets- 4pcs per rack) 9. All connection and accessories and screws 10. Rack basic PDU : at least 30A C20, 18way c13 + 2 way C18 meter, Black 11. Basic PDU, 8x14-14 Socket, 1U, Black 	

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Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Phil flex Royal Cord 3C #10 (55m) Twist Lock Outlet Set 4 sets	
5.2 One (1) set of Console Table and Chair	Standard office table and chair	
6. IT EQUIPMENT & VIDEO CONFERENCING SYSTEM FOR BOARD ROOM, TRAINING ROOM & CONFERENCE ROOM		
6.1 One (1) set Video Conferencing Main Unit	<p>Support Multi-cast. Capable of Dual Network. Support Cascade Mode Application. Capable of Recording with USB Memory</p> <p>Enabling High-Definition Web Conferences. Broadband Stereo Full Duplex Audio. High quality video Full-HD 1080/60p</p> <p>Adjusts data traffic based on network congestion through the use of Rate Control function. With Remote Camera Control</p> <p>With a unique Echo Canceller and with Smooth 2-way conversation with broadband stereo. Easy-to-understand remote lectures and seminars are conducted at multiple sites</p> <p>Connect to a sub-camera to share zoom and still images</p> <p>Compatible with other brand device. With Low Bandwidth Communication Support</p> <p>External Control Interface</p> <p>Communication Method: SIP, H.323</p> <p>Video Compression Method : H.260.5 (mainstream only), H.263, H.263+, H.263++ (reception only), H.263 High Profile, H.263 Baseline Profile</p> <p>Audio Compression Method: G.711 μ-law, A-law (3.4 kHz@64 kbps) G.722 (7.0 kHz@64 kbps) G.722.1 (7.0 kHz@32 kbps)</p> <p>G.722.1 Annex C (14.0 kHz@48 kbps/24 kbps)</p> <p>MPEG-4 AAC-LD Mono (7.0 kHz@32 kbps, 14.0 kHz@64 kbps, 22.0 kHz@96 kbps)</p> <p>MPEG-4 AAC-LD Stereo (14.0 kHz@64 kbps, 22.0 kHz@96 kbps)</p> <p>No. of Channels: G.711/G.722/G.722.1/G.722.1 Annex C: 1</p> <p>MPEG-4 AAC-LD Mono: 1/ MPEG-4 AAC-LD Stereo: 2</p> <p>Remote Camera Control: H.223, H.279 (Zoom/Pan/Tilt/Preset)</p> <p>Dual Stream - Method: H.235 (H.321), BFCP (SIP)</p> <p>Multi-Monitor: atleast 2 displays</p> <p>No. of Applicable Resolution Frames - Main: Max.</p>	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<p>1080p 25 frames/second, Sub: Max. 1080p 25 frames/second</p> <p>Encryption: SRTP (AES 126 bit), H.234 (AES 126 bit)</p> <p>Other: H.460</p> <p>Communication Bandwidth: 253 kbps to 22 Mbps</p> <p>Video Compatible Resolutions*1: 176 x 144p, 352 x 240p, 352 x 288p, 512 x 288p, 640 x 480p, 704 x 480p, 704 x 576p, 768 x 432p, 800 x 600p, 1024 x 768p, 1280 x 720p, 1280 x 768p, 1280 x 800p, 1920 x 1080p</p> <p>No. of Frames : Max. 57 frames/second (for H.264 1080p)</p> <p>Screen Display : Full-screen, Picture in Picture, Picture with Picture, Side by Side</p> <p>Audio : Echo canceller, Auto gain control, Stationary noise reduction, Lip synch, Equalizer, Mic mute</p> <p>I/O Terminals</p> <p>Video Input : Camera*2: HDMI main x 1, HDMI sub x 1 Input resolution: 1280 x 720p, 1920 x 1080i, 1920 x 1080p</p> <p>PC : RGB x 1(Mini D-sub 13pin), HDMI x 1*2 Input resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full-HD</p> <p>Video Output : HDMI x 2, HDMI x 1 (For own site/recording video), RCA x 1 (Component) Supported output resolutions: 1918 x 1080i, 1918 x 1080p</p> <p>Audio Input : Digital Boundary Microphone x 1 (KX-VCA001) Max. 4, Analogue Boundary Microphone x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*3*4 x 1 (ø3.5 mm), RCA*5 (Stereo) x 1</p> <p>Audio Output : HDMI*6, Stereo mini-plug*3*7 x 1 (ø3.5 mm), RCA*8 x 1 (Stereo)</p> <p>Network : RJ45 x 2 (1000BASE-T/100BASE-TX Full Duplex)</p> <p>External Control: RS-232C x 1 (Also used for maintenance)</p> <p>Others: USB 2.0*9 x 1, Camera Control Terminal x 1 (Not used)</p> <p>No. of Simultaneous Connection Sites: 16 (Expandable up to 24)</p> <p>Content Sharing: PC (RGB/HDMI), Sub-camera (HDMI sub)</p> <p>USB Host Mode (USB Memory): Updating Software, Recording, Import: Contact List / Profile*10 / Configuration Data / Encryption Data / Start-up Screen / Delivery Tree List Export: Contact List / Profile*10 / Configuration Data / Encryption Data / Delivery Tree List</p> <p>USB Device Mode: USB Video Class: Version 1.0 USB Audio Class: Version 1.0</p> <p>Network Protocol: TCP/IPv4, TCP/IPv6*11, UDP/IPv4, UDP/IPv6*11, DHCP, DNS,</p>	

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	<p>HTTP, HTTPS, TELNET, NTP</p> <p>Network Functions: Packet resending (ARQ), Forward Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary Port Setting, NAT Compatibility, Encryption, IP Precedence/DiffServ Support</p> <p>External Control: Via Web Browser, Control by HTTP CGI, TELNET, RS-232C</p> <p>Connection Modes: IP mode, NAT Traversal mode, IP / NAT Traversal mode</p> <p>Dimensions (width x depth x height): Approx. 318 mm x approx. 267 mm x approx. 59 mm (Excluding projecting parts)</p> <p>Weight: Approx. 3.3 kg (approx. 7.3 lb)</p> <p>Power Input: AC 100-240 V, -1.0 A, 45/55 Hz</p> <p>Power Consumption: Maximum: approx. 70 W, Standby: 0.5 W</p> <p>DC Power Input: DC 24 V, 2.5 A</p> <p>Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)</p> <p>Operating Humidity: 10 % to 90 % (non-condensing)</p> <p>Language: English, German, French, Italian, Spanish, Dutch, Portuguese, Japanese, Russian, Chinese, Arabic</p> <p>With 1 free HDVC Mobile License for 1 year</p> <p>One (1) year warranty</p>	
6.3 Three (3) set Video Conferencing Microphone	<p>Maximum Pickup Range : Approx. 3.5 m (radius)</p> <p>Pickup Method : Stereo / Monaural *11.5</p> <p>"Microphone Unit : Unidirectional ECM microphone parts at least x 3"</p> <p>Number of Connections : Maximum 4 microphones</p> <p>Maximum Input Sound Pressure : 105 dBspl</p> <p>Number of Terminals for Microphone Connection : 2</p> <p>Dimensions : Approx. 118 mm (diameter) x 25 mm</p> <p>Cable Length : Approx. 7.5 m</p> <p>Power Input : Supplied from main unit via proprietary cable</p> <p>Weight : Approx. 275 g</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p> <p>One (1) year warranty</p>	
6.4 One (1) set Extension Cable for Microphone unit	<p>Dimensions (diameter x length) : 7 mm (cable outer diameter) x 20 m</p> <p>Weight : 1.3 kg</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p>	
6.5 One (1) set Video Conference Camera	<p>Effective Pixels: 1918 x 1080i, 1918 x 1080p</p> <p>Pan / Tilt : Pan: ±95°, Tilt: ±19°</p> <p>Zoom (optical/digital) : 2x / 3x</p> <p>Angle of view (optical zoom) : Horizontal angle of view, 80° (Wide end) – 29.5° (Tele end), Vertical angle of view 65.4° (Wide end) -, 20.5° (Tele end), F1.2 (Wide end) -, F2.1 (Tele end); Presets : at least 10 positions</p>	

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	Connection Cable : HDMI Dimensions (width x depth x height) : Approx. 130 mm x approx. 125 mm x approx. 134 mm Weight : Approx. 0.6 kg Operating Temperature : 0 °C to 40 °C Operating Humidity : 10 % to 90 % (non-condensing) One (1) year warranty	
6.6 One (1) set LCD Laser Projector	Technology: Laser LCD. Brightness: at least 5 000 - 5 450 lumens. Power Supply AC 100-240 V, 45.5- 58 Hz Power Consumption: *1 435W (during standby) Approx. 0.4 W (When [STANDBY MODE] is set to [ECO]) Approx. 20 W (When [STANDBY MODE] is set to [NORMAL]) Approx. 47 W(When [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and USB memory is inserted in the terminal) Approx. 115 W(When [QUICK STARTUP] is set to [ON], [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and the power is supplied from the terminal BTU Value: Max 1,533BTU LCD Panel Panel Size: 17.3 mm (0.76 inches) diagonal (16:10 aspect ratio) LCD Panel Display Method:Transparent LCD panel (x 3, R/G/B) LCD Panel Drive Method: Active matrix method LCD Panel Pixels:2,299,000 (1918 x 1198) x 3, total of 6,899,000 pixels Light Source: Laser Diode Laser class 1(Class3R for US models) Illumination Life of Set: Varies depending on operation mode setting. 20,000 hours at half luminance * IEC62087: 2008 Broadcast contents, Dynamic contrast [2], Temperature: 30°C (86F), Under conditions of 0.15 mg/m 3 of particulate matte Projection Size: 1.02–10.16 m (40–400 inches) diagonally, 16:10 aspect ratio Light output * 5 000 - 5 450 lumens (Input signals: PC, Operating mode: Normal, Dynamic mode) Center-to-Corner Uniformity: 90% Contrast Ratio: *1 2,999,000:1(all white/all black)(Dynamic Contrast 1 or 2) (Input signals: PC, Operating mode: Normal, Dynamic mode) Resolution: WUXGA 1918 x 1198 pixels Scanning Frequency RGB: fH: 15- 91kHz, fV: 24 - 100Hz, dot clock: 162 MHz or less Scanning frequency YPBPR(YCBCR): 480i (525i): fH 15.73 kHz; fV 59.94 Hz, 576i (625i): fH 15.63 kHz; fV 50 Hz, 480p (525p): fH 31.47 kHz; fV 59.94Hz, 576p (625p): fH 31.25 kHz; fV 50 Hz, 720 (750)/60p: fH 45.00 kHz; fV 60 Hz, 720 (750)/50p: fH 37.50 kHz; fV 50 H z, 1080 (1125)/60i: fH 33.75 kHz; fV 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fV 50 Hz, 1080 (1125)/25p: fH 28.13 kHz; fV 25 Hz, 1080 (1125)/24p: fH 27.00 kHz; fV 24 Hz, 1080 (1125)/24sF: fH 27.00 kHz; fV 48 Hz, 1080	

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	<p>(1125)/30p: fH 33.75 kHz; fV 30 Hz, 1080 (1125)/60p: fH 67.50 kHz; fV 60 Hz, 1080 (1125)/50p: fH 56.25 kHz; fV 50 Hz</p> <p>Scanning Frequency Video: fH: 14.70 kHz / 15.20 kHz fV: 55.55 Hz / 45.5 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]</p> <p>Scanning Frequency HDMI/DIGITAL LINK: · Moving image signal resolution: 480i (525i)*2, 576i (625i)*2, 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p, 1080 (1125)/50p Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace) · Dot clock frequency: 25 MHz to 162 MHz</p> <p>Optical Axis Shift: Vertical $\pm 67\%$, Horizontal $\pm 35\%$ (Supplied lens/ET-ELS20/ET-ELW20/ET-ELT20/ET-ELT21) Vertical $\pm 60\%$, Horizontal $\pm 30\%$ (ET-ELW22) NOTE: Optical axis shift function cannot be operated when used with the ET-ELW21.</p> <p>Installation: Ceiling/desk/AUTO, front/rear, 360 degree free installation</p> <p>Speaker: 3.5 cm round-type x 1</p> <p>Maximum Usable Volume Output: 8.5 W (monaural)</p> <p>Terminals HDMI 1 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz)</p> <p>Terminals HDMI 2 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz)</p> <p>Terminals RGB 1 In: BNC (female) x 4, RGB/Y PB/PR (CB/CR)</p> <p>Terminals RGB 2 In: D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR)</p> <p>Terminals Monitor Out:D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR)</p> <p>Terminals Video In:Pin jack x 1</p> <p>Terminals Audio In 1: M3 stereo jack x 1(L-R)</p> <p>Terminals Audio In 2: M3 stereo jack x 1(L-R)</p> <p>Terminals Audio In 3: Pin jack x 2(L-R)</p> <p>Terminals Variable Audio Out: M3 jack, 0 V[rms] to 2.0 V[rms] variable, output imedance 2.2 k ohms and less</p> <p>Terminals Serial In: D-sub 9 pin, RS-232C compliant, for computer control use</p> <p>Terminals REMOTE 1:D-Sub 9 p (female) x 1, for external control (parallel)</p> <p>Terminals REMOTE 2:M3 jack x 1(L-R) for link control (for wired remote control)</p> <p>Terminals LAN: RJ-45 x 1 for network connection, 10/100Base-TX, compliant with PLink™(Class 2)</p> <p>Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compliant with PLink™(Class 2), Deep Color, HDCP</p>	

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	<p>Terminals VIEWER / PAIRING: USB type-A x 1</p> <p>Terminals DC Out: USB type-A x 1(DC 5V, 2A(Max))</p> <p>Power Cord Length:3.0m(9ft 10in)</p> <p>Noise Level: *1 32dB (Operating mode: NORMAL/ECO), 26dB (Operating mode: QUIET)</p> <p>Operating environment Temperature: 0°C (32°F) to 45°C (113°F) The projector cannot be used at an altitude of 2,700 m (8,858') or higher above sea level. The light output may decrease to protect the projector when the operating environment temperature exceeds 36 °C (96.8 °F).</p> <p>Operating Environment Humidity: 20% to 80% (no condensation)</p> <p>One (1) year warranty</p>	
6.7 One (1) pc. Unmanaged PoE fiber switch	Support at least 20+3*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber slot ports, port 1-23 can support IEEE 802.3af/at PoE standard, Built-in 235W power supply. Support 1U/18 inch rack installation.	
6.8 One (1) pc. Router	Supports 802.11ac standard Simultaneous 2.4GHz 300 Mbps and 5GHz 867 Mbps connections for 1198 Mbps of total available bandwidth	
6.9 Two (2) sets Laser Projector	<p>Laser LCD, 4,500 – 4,900 lumens, WUXGA</p> <p>Compact and lightweight body bringing high brightness dynamic image</p> <p>Long lasting laser light source provide consistent brightness</p> <p>1.3 x zoom and wide horizontal and vertical lens shift for flexible installation</p> <p>Long lasting laser light source and low-maintenance design provide high brightness and superb image quality</p> <p>Light output*1: 4,500 – 4,900 lumens</p> <p>Technology: Laser LCD</p> <p>LCD panel Panel size (mm): 14 mm diagonal (15:9 aspect ratio)</p> <p>LCD panel Panel size (inch): 0.62 inch diagonal (15:9 aspect ratio)</p> <p>LCD panel Display method: Transparent LCD panel (x 3, R/G/B)</p> <p>LCD panel Drive method: Active matrix</p> <p>LCD panel Pixels: 2,304,000 (1918 x 1198) x 3, total of 5,500,000 pixels</p> <p>LENS: 1.6 x Manual zoom (throw ratio 1.09-1.77 :1), F = 1.60-2.12, f = 15.30-24.64 mm</p> <p>Light source: Laser diode</p> <p>Screen size (diagonal) (mm): 0.76 - 7.62 m, 16:10 aspect ratio</p> <p>Screen size (diagonal) (inch): 25-298 in, 15:9 aspect ratio</p> <p>Center-to-corner uniformity*1: 85%</p> <p>Contrast*1: 2,999,000:1 (all white/all black) (Input signals:PC,LIGHT POWER:NORMAL,PICTURE MODE:DYNAMIC,DAYLIGHT VIEW:OFF,DYNAMIC CONTRAST:[1],AUTO POWER SAVE:OFF)</p>	

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	<p>Resolution: 1918 x 1198 pixels</p> <p>Optical axis shift Vertical (from center of screen): 0 % - +44 % (Manual)</p> <p>Optical axis shift Horizontal (from center of screen): - 20% - +20% (Manual)</p> <p>Keystone correction range*2: Vertical: $\pm 22^\circ$, Horizontal: $\pm 33^\circ$</p> <p>Installation: Horizontal/Vertical, free 360-degree installation</p> <p>Terminals HDMI 1/2 IN: HDMI 18-pin x 2 (Compatible with HDCP, Deep Color, 4K/30p signal input)</p> <p>Terminals COMPUTER 1 IN: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR)</p> <p>Terminals COMPUTER 2 IN / MONITOR OUT: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR) (input/output switching)</p> <p>Terminals VIDEO IN: Pin jack x 1</p> <p>Terminals AUDIO 1/2 IN: M3 stereo mini-jack x 2</p> <p>Terminals AUDIO 3 IN: Pin jack (L/R) x 1</p> <p>Terminals VARIABLE AUDIO OUT: M3 stereo mini-jack x 1</p> <p>Terminals SERIAL IN: D-sub 9-pin x 1 for computer control (RS-232C compliant)</p> <p>Terminals LAN: RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ (Class 2)</p> <p>Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK connection, HDBase-T™ compliant, 100Base-TX, compatible with PLink™ (Class 2), HDCP, Deep Color, 4K/28p signal input</p> <p>Terminals USB CONNECTOR: USB connector (Type A) x 1 for Memory Viewer function, power supply (DC5V, maximum 2A*3), optional wireless module AJ-WM50</p> <p>Power supply: AC 100-240 V AC, 45/55 Hz</p> <p>Power consumption: TBD</p> <p>Built-in Speaker: 10 W (monaural)</p> <p>Operating noise*1: NORMAL: 35dB, QUIET: 27dB</p> <p>Cabinet materials: Molded plastic</p> <p>Filter: Included</p> <p>Filter cleaning cycle: 18,500 hours (0.08 mg/m3 of particulate matter), 9,900 hours (0.15 mg/m3 of particulate matter)</p> <p>Dimensions (W x H x D) (mm): 399 x 115 x 348 mm (Not including protruding parts) 397 x 131 x 344 mm (With feet at shortest position)</p> <p>Dimensions (W x H x D) (inch): 15 23/32 x 4 17/32 x 13 11/16 inch (Not including protruding parts) 15 23/32 x 5 1/4 x 13 11/16 inch (With feet at shortest position)</p> <p>Weight (kg)*4: 7.2 kg</p> <p>Weight (lbs.)*4: 15.87 lbs.</p> <p>Operating environment (°C/M): Operating temperature: 0 °C- 45 °C, operating humidity: 20 %-80 % (no condensation)</p> <p>Operating environment (°F/Feet): Operating temperature: 32 °F -113 °F, operating humidity: 20 %-80</p>	

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	% (no condensation) Applicable software/application: Logo Transfer Software, Multi Monitoring & Control Software, Presenter Light for Windows®, Wireless Projector Apps for iOS/Android™ With Ceiling mount bracket One (1) year warranty	
6.10 Three (3) pcs. 102.5" Motorized Screen (15:9)	Installation Options: Floating Wall Mount / Ceiling Mount / Suspended Mount (using the "L bracket"). Control Options: IR / RF / RS485 + Dry Contact Control / 3-12 Voltage Trigger Control / Central Control / IP. Control - • Colour: Black / White Aluminum Casing	
6.11 Two (2) sets Amplifier System	Minimum of 61W , 97 Volt Height- rack units (1U=43 mm) in U : 2 Depth (incl front) in mm : at least 293 Emergency power supply: 24 VDC Output power RMS 100 volts in watts : 63 Dynamic output power 100 volts in watts: 63 Output power tapings : 97 – 67 volts – 7 ohms MIC inputs balanced: 2 Line input unbalanced: 1 Priority switch : 1 Chime : yes Priority output : 0 Frequency response (in Hz) : 59 – 17 k Applicable in 100V : yes Net weight product (kg) : 5.39 Depth (build in) in mm : 273 Power supply : 115 - 230 VAC Power consumption (max) in watts : 167 Output power RMS 8 ohms in watts : 63 Minimum impedance load in ohms : 7 Zone outputs : 1 Inputs with Phantom power : 2 Tone control yes VOX mute: yes Emergency input : 0 Priority levels : 2 Cooling system: convection Applicable low impedance : yes Includes one (1) unit Multimedia player system: HDMI Full HD Support; Full HD Video; Full HD Sound; Full HD Microphone User Contents - Fast USB to HDD Transfer - Edit (Rename, Delete, Modify) - Auto Song Numbering assignment Recording function - MTV, Chorus, MIDI may be recorded - Transfer Recordings to USB - Edit (Rename, Delete, Modify)	

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	<ul style="list-style-type: none"> - External USB HDDs Supported via USB connectivity Multimedia Function - Full Playback Function - avi, rmbv, mkv, mpg, wmv, etc. - mp3, wma, aac, wav, etc. - jpg, bmp, gif, etc. <p>Specifications:</p> <p>Processor: Cortex-A9 1.2GHz Dual core</p> <p>RAM: DDR3, 1GB Memory</p> <p>Operating System: Android 4.2 Jelly Bean</p> <p>Storage: 1TB HDD</p> <p>Microphone Input: Two (2) slots available</p> <p>Microphone Volume: Available</p> <p>Echo Volume: Available</p> <p>USB Compatibility: Two (2) USB 2.0 Port</p> <p>LED Backlit Buttons: Available</p> <p>TV Input Channel: HDMI</p> <p>: Video Out</p> <p>:YPbPr Video Out</p> <p>:Composite Video Out</p> <p>Background Video Input: Two (2) Input Available</p> <p>Audio Output :Analog Audio Out</p> <p>:Optical Audio Out</p> <p>:Coaxial Audio Out</p>	
6.12 Four (4) sets Wall Speaker	<p>Components</p> <p>At least 7" woofer with woven fiberglass cone</p> <p>1" PEI diaphragm tweeter with fluid cooling</p> <p>Contemporary, high-design appearance</p> <p>Built-in InvisiBall® mounting hardware, plus available U-bracket</p> <p>Weather resistant enclosure and transducers</p> <p>Wide 90° x 90° coverage</p> <p>115W power handling (235W program) in direct 7Ω setting, plus built-in 55W 65V/95V multi-tap transformer</p> <p>High fidelity sound character with broad frequency response of 40 Hz – 18 kHz</p> <p>System</p> <p>Frequency Range (-10 dB) - 40 Hz – 18 kHz</p> <p>Frequency Response (±3 dB) - 60 Hz – 15 kHz</p> <p>Power Rating: 235W Continuous Program (2 hrs) 118W (475W peak), Continuous Pink Noise (2 hrs) 90W (360W peak) Continuous Pink Noise (100 hrs)</p> <p>Maximum Input Voltage – 27.5 V RMS (2 hrs), 55.0 V peak</p> <p>Maximum SPL3 – 112 dB ave. Continuous Pink Noise (118 dB peak)</p> <p>Sensitivity – 91 dB, 1W/1m (ave. 100 Hz – 10 kHz)</p> <p>Coverage Angle - 90° x 90°</p> <p>Directivity Factor (Q) - 7.3 (averaged 1kHz – 16kHz)</p>	

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	<p>Directivity Index (DI) – 8.3dB (averaged 1kHz – 16kHz) Nominal Impedance – 7 ohms (THRU setting) Crossover Type - 2nd order low-pass, 1st order high-pass, plus conjugate shaping Circuitry Transformer Taps – 65V: 55W, 25W, 10W, 6.5W 95V: 55W, 25W, 10W Insertion Loss: <0.94 dB at any tap setting Thru Setting: 7Ω nominal Recommended Protective High-Pass – 6 45 Hz high-pass (24 dB/oct) for 8Ω operation plus 15W and 7.5W taps; 55 Hz for 30W tap; 65 Hz for 60W tap Transducers Low Frequency – 198 mm (8 in), woven-fiberglass cone with pure butyl rubber surround with Weather-Edge frame protection, high-temp fiberglass voice coil former, high-temp voice coil wire, optimized cone geometry, linear suspension spider, and FEA optimized motor structure High Frequency – 23 mm (1 in) PEI diaphragm, low-viscosity ferromagnetic fluid, and lightweight Kapton™ voice coil former Physical Enclosure Material - High Impact Polystyrene (HIPS) with 10% glass fill, painted with highly-UV resistant paint on white (-WH) version for maximum UV fade resistance Grille – Highly zinc-plated, finished in durable TGIC polyester powder coating. MTC-28WMG-1 (&-WH) available with Weather-Max™ multi-layer foam and tight-weave mesh vapor barrier backing. Installation – InvisiBall wall-mounting system included. Two 6 mm attachment points (on top and bottom) for optional MTC-28WMG-1 (&-WH) U-bracket. Secondary safety attachment loop point on back panel. Agency Rating – ROHS-compliant; Transformer UL Recognized per UL1876 Dimensions - (H x W x D)7 386 x 282 x 219 mm (15.2 x 11.1 x 8.6 in); 277 mm (10.9 in) deep total when mounted on InvisiBall wall-mount bracket; Net Weight – 6.8 kg (15.0 lbs) One (1) year warranty</p>	
6.13 Two (2) sets Dual Handheld Microphone	<p>Designed metal housing with distinctive Aesthetic and ergonomic style Interchangeable capsule module with premium condenser Patented capsule suspension design virtually Eliminates vibration and handling noises Built-in high-efficiency antenna Backlit LCD displays all operational parameter information Provides precise and rapid frequency sync to the receiver Technical Specifications Frequency Range – UHF 478 – 931 MHz Bandwidth – 21 MHz</p>	

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	<p>Oscillation Mode – PLL Synthesized</p> <p>RF Output Power - 9 ~ 27mW (country dependent)</p> <p>Deviation - < ± 40 kHz</p> <p>Spurious Emissions < -53 dBc</p> <p>LCD Display - Group, Channel, Battery status & error codes</p> <p>Max. SPL – 135 dB SPL</p> <p>Battery Type - 2 x AA alkaline</p> <p>Operating Time – Min. 12 hours (Low Power)</p> <p>Current Consumption – Approx. 92 mA</p> <p>Dimensions - (Ø x L) 51 x 234 mm 2 x 9.2 "</p> <p>Net Weight - Approx. 251 g 8.9 oz</p>	
6.14 One (1) lot Speaker cable transparent #16 AWG, Interconnector	(XLR Male to XLR Female 1m), 3.5mm stere plug-2 X RCA Plug (1.5m)	
7. PABX EQUIPMENT		
7.1 One (1) set PBX Main Unit	<p>Support Multi-site networking. SIP Networking for Low cost. Flexible expansion by adding activation key.</p> <p>Support small to large communication system. Up to maximum 992 (with DXDP 1152) Extensions.</p> <p>Built-in support for Advanced IP extensions as well as standard SIP phones. Easy Migration to IP</p> <p>SIP trunking Integrated SIP telephony via ITSPs* and other SIP trunk Providers.</p> <p>It is a high intuitive PC Based application suit that blend powerful point and click telephony.</p> <p>Wireless Mobility Solutions.</p> <p>Built-in and Optional Voice Mail Processing system.</p> <p>Reduced Total Cost of Ownership.</p>	
7.2 Two (2) sets 24-Port SLT Extension Card	Physical Extension Cards with Caller ID and Message Lamp Card	
7.3 One (1) set 8-port Digital Extension Card	Physical Extension Cards	
7.4 One (1) set Power Supply unit	L-Type	
7.5 One (1) set Back-up battery Cable	included	
7.6 One (1) set 16-	16 channel digital signal processor card with one 4	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
ch VoIP DSP Card	channel IP trunk SHGW4 activation key and one 8 channel IP proprietary telephone IPPT8 activation key pre-installed Compliant with ITU-T G.729a and G.711 codec methods Mounts on IPCMPR card	
7.7 Three (3) sets 3-Line LCD Digital Proprietary Telephone	3-Line Backlight LCD Display; 24 Flexible CO Buttons Full Duplex Speakerphone; EHS Support Specifications: Main LCD Display (Lines/Characters) – 3/16 LCD Backlight- Yes Flexible CO Keys – 24 Navigator Keys- Yes Soft Keys – 4 Call Log Incoming/Outgoing Calls- Yes / Yes Speakerphone - Yes (Full Duplex) Headset Port – Yes Electric Hook Switch (EHS)*1 – Yes Dimensions (mm) *2 (Width x Depth x Height) High Position267x170x180Low Position267x187x155Weight (g)*31070ColorBlack, White	
7.8 One (1) set 1-Line Digital Proprietary Telephone	1-line Graphical LCD with backlighting; 8 freely programmable function keys; Speaker Phone, handset and headset with full duplex; Available in black and white colour Specification: LCD Type - Graphic LCD Dots (W x H) 160 x 18 LCD Line 1 LCD Character 16 LCD Backlight Yes (On/Automatic/Off) Headset Yes (2.5 mm audio jack) Full Duplex Electronics Hook Switch (EHS) No Speakerphone Yes (Full Duplex) External Expansion 1 DXDP port Bluetooth (for Headset) No DXDP Yes XDP No Data Transmission Capability PBX to DPT: Cable fÓ0.5 mm 500 m DPT to DPT: Cable fÓ0.5 mm 50 m Wall Mount Kit Yes (Option) Dimension (W x D x H mm) LOW: 205 x 160 x 170 FF Keys 8 Soft Keys No 0-9, *, # Keys Yes Redial Key Yes	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Flash/Recall Key Yes Hold Key Yes SP-Phone Key Yes Auto Answer/Mute Key Yes Auto Dial/Store Key Yes Transfer Key Yes Intercom Key Yes Pause Key - Yes CONF Key - Yes FWD/DND Key No Message Key Yes Navigator Key No 4-Directions Key Yes Cancel Key No LED Message/Ringer Lamp Yes (Green/Red) LED FF Keys Yes (Green/Red) LED Intercom Yes (Green) LED SP-Phone Yes (Red) LED Auto Answer/Mute Yes (Red) LED Auto Dial/Store Yes (Red) LED CONF No LED FWD/DND Yes (Red) Message/Ringing Lamp Yes OHCA Yes Bluetooth Headset Adapter No Auto Redial No Off-Hook Monitor Yes Handset/Headset Mic Mute Yes Speakerphone Mic Mute Yes Phone Directory Yes Feature Access No Outgoing Call Log Yes Incoming Call Log Yes Audio Codec Yes (G.711) USB Unit I/F No System Programming No Station Programming Yes*1 Electric Volume Headset 6 levels Electric Volume Handset 6 levels Electric Volume Speakerphone 8 levels Electric Volume Ringer 4 + Off LCD Contrast 4 levels Tones/Music Ring Tone 8 Tones/Music on Hold No (Tone) Footnote *1 To operate by PROGRAM Key or PAUSE Key	
7.9 One (1) set 4-Ch IP Trunk	4-Channel H.323/SIP Gateway Activation Key	
7.10 Twelve (12) sets Basic Single Line Telephone	Integrated Telephone System Choice of Five Colors: black, white, red, dark blue and grey; Wall Mountable; Last Number	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Redial; Timed Flash Electronic Volume Control; 3-Step Ringer Selector Switchable Tone/Pulse Settings Specifications: Dial Mode: Tone (DTMF)/pulse Redial: One-touch (32 digits) Flash: 600 ms Power Source: Telephone line Dimensions (H x W x D): 96 mm x 150 mm x 200 mm Weight: 475 g	
7.11 One (1) set AVR 1000W	included	
7.12 Three (3) sets 12V Battery	included	
7.13 Five (5) sets Krone Terminal	included	
7.14 Three (3) sets Amphenol Cable with Head	included	
8. Supply and installation of IT equipment for the data center and other ICT equipment. Including (Refrigerant piping type M hard drawn copper pipe) and ACCU to FCU electrical power supply (THHN Philflex) with PVC flexible conduit. 1" diameter PVC	included	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
condensate drain pipe including insulating using 3/8" thick rubber insulation wrapped with polyethylene tape. Installation of FM200. installation of fire suppression control panel, programming and configuration. Installation of monitoring and access control system, configuration, testing and commissioning. PABX installation, tracing, termination, programming and testing. Tracing, termination and programming for HD visual communication system, projectors and audio system. Testing and commissioning of all equipment, miscellaneous and consumables and training of all the system and integration.		

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
9. OTHER REQUIREMENTS		
	9.1 To ensure the quality of service, the contractor shall submit the following documents:	
	Supplier must have at least five (5) years of experience in supply, delivery, installation, testing and commissioning of network equipment and structured cabling system / Data Center Solution.	
	Supplier must have completed at least one (1) similar projects in supply, delivery, installation, testing and commissioning of network equipment and Data Center Solution.	
	The supplier shall submit implementation time-line that reflects all the milestones in Gantt chart.	
	Supervised by a Certified License Electronics and Communication Engineer.	
	Supplier must have at least Three (3) Certified Data Center Professionals (CDCP) duly employed by the company for at least 5 years and above.	
	Managed by a registered Project Manager (PM) and shall submit a certificate issued by the Project Management Institute (PMI).	
	Contractors must have Philippine Contractors Accreditation Board (PCAB) licenses required by Republic Act 4566 to perform telecommunications/communications installations.	
	The contractor shall be responsible for all required permits.	
9.2 Maintenance / Support	One (1) year maintenance with quarterly preventive maintenance visit	
9.3 Warranty	One (1) year parts and services One (1) year Workmanship	
9.4 Training	Operations and Maintenance Training prior to the acceptance of the project. Including lectures and actual demonstration for at least 8 hours for minimum of ten (10) participants.	
9.5 Delivery / Project Duration	Project must be completed within 120 days upon receipt of Notice to Proceed	
9.6 Operations & Maintenance Manual (English)	Included	

- d) Section VIII. Bidding Forms on or before the deadline specified in the **ITB** Clauses 21 in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously. The first shall contain the technical component of the bid, including the eligibility requirements under **ITB** Clause a), and the second shall contain the financial component of the bid. This shall also be observed for each lot in the case of lot procurement.
- e) Forms as mentioned in **ITB** Clause a) must be completed without any alterations to their format, and no substitute form shall be accepted. All blank spaces shall be filled in with the information requested.
- f) The Bidder shall prepare and submit an original of the first and second envelopes as described in **ITB** Clauses 12 and 13. In addition, the Bidder shall

submit copies of the first and second envelopes. In the event of any discrepancy between the original and the copies, the original shall prevail.

- g) Each and every page of the Bid Form, including the Schedule of Prices, under Section VIII hereof, shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the bid.
- h) Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.

20. Sealing and Marking of Bids

- a) Bidders shall enclose their original eligibility and technical documents described in **ITB** Clause 12 in one sealed envelope marked “ORIGINAL - TECHNICAL COMPONENT”, and the original of their financial component in another sealed envelope marked “ORIGINAL - FINANCIAL COMPONENT”, sealing them all in an outer envelope marked “ORIGINAL BID”.
- b) Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as “COPY NO. ____ - TECHNICAL COMPONENT” and “COPY NO. ____ – FINANCIAL COMPONENT” and the outer envelope as “COPY NO. ____”, respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.
- c) The original and the number of copies of the Bid as indicated in the **BDS** shall be typed or written in ink and shall be signed by the Bidder or its duly authorized representative/s.
- d) All envelopes shall:
 - (a) contain the name of the contract to be bid in capital letters;
 - (b) bear the name and address of the Bidder in capital letters;
 - (c) be addressed to the Procuring Entity’s BAC in accordance with **ITB** Clause 1.a);
 - (d) bear the specific identification of this bidding process indicated in the **ITB** Clause 1.b); and
 - (e) bear a warning “DO NOT OPEN BEFORE...” the date and time for the opening of bids, in accordance with **ITB** Clause 21.
- e) Bid envelopes that are not properly sealed and marked, as required in the bidding documents, shall not be rejected, but the Bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC or the Procuring Entity shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or for its premature opening.

D. Submission and Opening of Bids

21. Deadline for Submission of Bids

Bids must be received by the Procuring Entity's BAC at the address and on or before the date and time indicated in the **BDS**.

22. Late Bids

Any bid submitted after the deadline for submission and receipt of bids prescribed by the Procuring Entity, pursuant to **ITB** Clause 21, shall be declared "Late" and shall not be accepted by the Procuring Entity. The BAC shall record in the minutes of bid submission and opening, the Bidder's name, its representative and the time the late bid was submitted.

23. Modification and Withdrawal of Bids

- a) The Bidder may modify its bid after it has been submitted; provided that the modification is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Bidder shall not be allowed to retrieve its original bid, but shall be allowed to submit another bid equally sealed and properly identified in accordance with **ITB** Clause 20, linked to its original bid marked as "TECHNICAL MODIFICATION" or "FINANCIAL MODIFICATION" and stamped "received" by the BAC. Bid modifications received after the applicable deadline shall not be considered and shall be returned to the Bidder unopened.
- 23.2 A Bidder may, through a Letter of Withdrawal, withdraw its bid after it has been submitted, for valid and justifiable reason; provided that the Letter of Withdrawal is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Letter of Withdrawal must be executed by the duly authorized representative of the Bidder identified in the Omnibus Sworn Statement, a copy of which should be attached to the letter.
- c) Bids requested to be withdrawn in accordance with **ITB** Clause a) shall be returned unopened to the Bidders. A Bidder, who has acquired the bidding documents, may also express its intention not to participate in the bidding through a letter which should reach and be stamped by the BAC before the deadline for submission and receipt of bids. A Bidder that withdraws its bid shall not be permitted to submit another bid, directly or indirectly, for the same contract.
- d) No bid may be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Financial Bid Form. Withdrawal of a bid during this interval shall result in the forfeiture of the Bidder's bid security, pursuant to **ITB** Clause 18.e), and the imposition of administrative, civil and criminal sanctions as prescribed by RA 9184 and its IRR.

24. Opening and Preliminary Examination of Bids

- a) The BAC shall open the bids in public, immediately after the deadline for the submission and receipt of bids, as specified in the **BDS**. In case the Bids cannot be opened as scheduled due to justifiable reasons, the BAC shall take custody of the Bids submitted and reschedule the opening of Bids on the next working day or at the soonest possible time through the issuance of a Notice of Postponement to be posted in the PhilGEPS website and the website of the Procuring Entity concerned.
- b) Unless otherwise specified in the **BDS**, the BAC shall open the first bid envelopes and determine each Bidder's compliance with the documents prescribed in **ITB** Clause 12, using a non-discretionary "pass/fail" criterion. If a Bidder submits the required document, it shall be rated "passed" for that particular requirement. In this regard, bids that fail to include any requirement or are incomplete or patently insufficient shall be considered as "failed". Otherwise, the BAC shall rate the said first bid envelope as "passed".
- c) Unless otherwise specified in the **BDS**, immediately after determining compliance with the requirements in the first envelope, the BAC shall forthwith open the second bid envelope of each remaining eligible bidder whose first bid envelope was rated "passed". The second envelope of each complying bidder shall be opened within the same day. In case one or more of the requirements in the second envelope of a particular bid is missing, incomplete or patently insufficient, and/or if the submitted total bid price exceeds the ABC unless otherwise provided in **ITB** Clause 13.b), the BAC shall rate the bid concerned as "failed". Only bids that are determined to contain all the bid requirements for both components shall be rated "passed" and shall immediately be considered for evaluation and comparison.
- d) Letters of Withdrawal shall be read out and recorded during bid opening, and the envelope containing the corresponding withdrawn bid shall be returned to the Bidder unopened.
- e) All members of the BAC who are present during bid opening shall initial every page of the original copies of all bids received and opened.
- f) In the case of an eligible foreign bidder as described in **ITB** Clause 5, the following Class "A" Documents may be substituted with the appropriate equivalent documents, if any, issued by the country of the foreign Bidder concerned, which shall likewise be uploaded and maintained in the PhilGEPS in accordance with Section 8.5.2 of the IRR:
 - (a) Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or CDA for cooperatives;

- (b) Mayor's/Business permit issued by the local government where the principal place of business of the bidder is located; and
 - (c) Audited Financial Statements showing, among others, the prospective bidder's total and current assets and liabilities stamped "received" by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two years from the date of bid submission.
- g) Each partner of a joint venture agreement shall likewise submit the requirements in **ITB** Clause 12.1(a)(i). Submission of documents required under **ITB** Clauses 12.1(a)(ii) to 12.1(a)(iii) by any of the joint venture partners constitutes compliance.
 - h) The Procuring Entity shall prepare the minutes of the proceedings of the bid opening that shall include, as a minimum: (a) names of Bidders, their bid price (per lot, if applicable, and/or including discount, if any), bid security, findings of preliminary examination, and whether there is a withdrawal or modification; and (b) attendance sheet. The BAC members shall sign the abstract of bids as read.
- 24.8 The bidders or their duly authorized representatives may attend the opening of bids. The BAC shall ensure the integrity, security, and confidentiality of all submitted bids. The Abstract of Bids as read and the minutes of the bid opening shall be made available to the public upon written request and payment of a specified fee to recover cost of materials.
- 24.9 To ensure transparency and accurate representation of the bid submission, the BAC Secretariat shall notify in writing all bidders whose bids it has received through its PhilGEPS-registered physical address or official e-mail address. The notice shall be issued within seven (7) calendar days from the date of the bid opening.

E. Evaluation and Comparison of Bids

25. Process to be Confidential

- a) Members of the BAC, including its staff and personnel, as well as its Secretariat and TWG, are prohibited from making or accepting any kind of communication with any bidder regarding the evaluation of their bids until the issuance of the Notice of Award, unless otherwise allowed in the case of **ITB** Clause 26.
- b) Any effort by a bidder to influence the Procuring Entity in the Procuring Entity's decision in respect of bid evaluation, bid comparison or contract award will result in the rejection of the Bidder's bid.

26. Clarification of Bids

To assist in the evaluation, comparison, and post-qualification of the bids, the Procuring Entity may ask in writing any Bidder for a clarification of its bid. All

responses to requests for clarification shall be in writing. Any clarification submitted by a Bidder in respect to its bid and that is not in response to a request by the Procuring Entity shall not be considered.

27. Domestic Preference

- a) Unless otherwise stated in the **BDS**, the Procuring Entity will grant a margin of preference for the purpose of comparison of bids in accordance with the following:
 - (a) The preference shall be applied when the lowest Foreign Bid is lower than the lowest bid offered by a Domestic Bidder.
 - (b) For evaluation purposes, the lowest Foreign Bid shall be increased by fifteen percent (15%).
 - (c) In the event that the lowest bid offered by a Domestic Bidder does not exceed the lowest Foreign Bid as increased, then the Procuring Entity shall award the contract to the Domestic Bidder at the amount of the lowest Foreign Bid.
 - (d) If the Domestic Bidder refuses to accept the award of contract at the amount of the Foreign Bid within two (2) calendar days from receipt of written advice from the BAC, the Procuring Entity shall award to the bidder offering the Foreign Bid, subject to post-qualification and submission of all the documentary requirements under these Bidding Documents.
- b) A Bidder may be granted preference as a Domestic Bidder subject to the certification from the DTI that the Bidder is offering unmanufactured articles, materials or supplies of the growth or production of the Philippines, or manufactured articles, materials, or supplies manufactured or to be manufactured in the Philippines substantially from articles, materials, or supplies of the growth, production, or manufacture, as the case may be, of the Philippines.

28. Detailed Evaluation and Comparison of Bids

- a) The Procuring Entity will undertake the detailed evaluation and comparison of bids which have passed the opening and preliminary examination of bids, pursuant to **ITB** Clause 24, in order to determine the Lowest Calculated Bid.
- b) The Lowest Calculated Bid shall be determined in two steps:
 - (a) The detailed evaluation of the financial component of the bids, to establish the correct calculated prices of the bids; and
 - (b) The ranking of the total bid prices as so calculated from the lowest to the highest. The bid with the lowest price shall be identified as the Lowest Calculated Bid.

- c) The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all bids rated "passed," using non-discretionary pass/fail criteria. The BAC shall consider the following in the evaluation of bids:
 - (a) Completeness of the bid. Unless the **BDS** allows partial bids, bids not addressing or providing all of the required items in the Schedule of Requirements including, where applicable, Schedule of Prices, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0) or a dash (-) for the said item would mean that it is being offered for free to the Procuring Entity, except those required by law or regulations to be provided for; and
 - (b) Arithmetical corrections. Consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid modifications. Any adjustment shall be calculated in monetary terms to determine the calculated prices.
- d) Based on the detailed evaluation of bids, those that comply with the above-mentioned requirements shall be ranked in the ascending order of their total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, to identify the Lowest Calculated Bid. Total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, which exceed the ABC shall not be considered, unless otherwise indicated in the **BDS**.
- e) The Procuring Entity's evaluation of bids shall be based on the bid price quoted in the Bid Form, which includes the Schedule of Prices.
- f) Bids shall be evaluated on an equal footing to ensure fair competition. For this purpose, all bidders shall be required to include in their bids the cost of all taxes, such as, but not limited to, value added tax (VAT), income tax, local taxes, and other fiscal levies and duties which shall be itemized in the bid form and reflected in the detailed estimates. Such bids, including said taxes, shall be the basis for bid evaluation and comparison.
- g) If so indicated pursuant to **ITB** Clause 1.2, Bids are being invited for individual lots or for any combination thereof, provided that all Bids and combinations of Bids shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid prices quoted shall correspond to all items specified for each lot and to all quantities specified for each item of a lot. Bid Security as required by **ITB** Clause 18 shall be submitted for each contract (lot) separately. The basis for evaluation of lots is specified in BDS Clause 28.3.

29. Post-Qualification

- a) The BAC shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the Lowest Calculated Bid complies with and is

responsive to all the requirements and conditions specified in **ITB** Clauses 5, 12, and 13.

- b) Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

Failure to submit any of the post-qualification requirements on time, or a finding against the veracity thereof, shall disqualify the bidder for award. Provided in the event that a finding against the veracity of any of the documents submitted is made, it shall cause the forfeiture of the bid security in accordance with Section 69 of the IRR of RA 9184.

- c) The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted pursuant to **ITB** Clauses 12 and 13, as well as other information as the Procuring Entity deems necessary and appropriate, using a non-discretionary "pass/fail" criterion, which shall be completed within a period of twelve (12) calendar days.
- d) If the BAC determines that the Bidder with the Lowest Calculated Bid passes all the criteria for post-qualification, it shall declare the said bid as the LCRB, and recommend to the HoPE the award of contract to the said Bidder at its submitted price or its calculated bid price, whichever is lower.
- e) A negative determination shall result in rejection of the Bidder's Bid, in which event the Procuring Entity shall proceed to the next Lowest Calculated Bid with a fresh period to make a similar determination of that Bidder's capabilities to perform satisfactorily. If the second Bidder, however, fails the post qualification, the procedure for post qualification shall be repeated for the Bidder with the next Lowest Calculated Bid, and so on until the LCRB is determined for recommendation for contract award.
- f) Within a period not exceeding fifteen (15) calendar days from the determination by the BAC of the LCRB and the recommendation to award the contract, the HoPE or his duly authorized representative shall approve or disapprove the said recommendation.
- g) In the event of disapproval, which shall be based on valid, reasonable, and justifiable grounds as provided for under Section 41 of the IRR of RA 9184, the HoPE shall notify the BAC and the Bidder in writing of such decision and the grounds for it. When applicable, the BAC shall conduct a post-qualification of the Bidder with the next Lowest Calculated Bid. A request for reconsideration may be filed by the bidder with the HoPE in accordance with Section 37.1.3 of the IRR of RA 9184.

30. Reservation Clause

- a) Notwithstanding the eligibility or post-qualification of a Bidder, the Procuring Entity concerned reserves the right to review its qualifications at any stage of

the procurement process if it has reasonable grounds to believe that a misrepresentation has been made by the said Bidder, or that there has been a change in the Bidder's capability to undertake the project from the time it submitted its eligibility requirements. Should such review uncover any misrepresentation made in the eligibility and bidding requirements, statements or documents, or any changes in the situation of the Bidder which will affect its capability to undertake the project so that it fails the preset eligibility or bid evaluation criteria, the Procuring Entity shall consider the said Bidder as ineligible and shall disqualify it from submitting a bid or from obtaining an award or contract.

- b) Based on the following grounds, the Procuring Entity reserves the right to reject any and all bids, declare a Failure of Bidding at any time prior to the contract award, or not to award the contract, without thereby incurring any liability, and make no assurance that a contract shall be entered into as a result of the bidding:
 - (a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the Bidders, or if the collusion is between or among the bidders themselves, or between a Bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;
 - (b) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or
 - (c) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the GOP as follows:
 - (i) If the physical and economic conditions have significantly changed so as to render the project no longer economically, financially or technically feasible as determined by the HoPE;
 - (ii) If the project is no longer necessary as determined by the HoPE; and
 - (iii) If the source of funds for the project has been withheld or reduced through no fault of the Procuring Entity.
- c) In addition, the Procuring Entity may likewise declare a failure of bidding when:
 - (a) No bids are received;
 - (b) All prospective Bidders are declared ineligible;
 - (c) All bids fail to comply with all the bid requirements or fail post-qualification; or

- (d) The bidder with the LCRB refuses, without justifiable cause to accept the award of contract, and no award is made in accordance with Section 40 of the IRR of RA 9184.

F. Award of Contract

31. Contract Award

- a) Subject to **ITB** Clause 29, the HoPE or its duly authorized representative shall award the contract to the Bidder whose bid has been determined to be the LCRB.
- b) Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder in writing that its bid has been accepted, through a Notice of Award duly received by the Bidder or its representative personally or sent by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB and submitted personally or sent by registered mail or electronically to the Procuring Entity.
- c) Notwithstanding the issuance of the Notice of Award, award of contract shall be subject to the following conditions:
 - (a) Submission of the following documents within ten (10) calendar days from receipt of the Notice of Award:
 - (i) Valid JVA, if applicable; or
 - (ii) In the case of procurement by a Philippine Foreign Service Office or Post, the PhilGEPS Registration Number of the winning foreign Bidder;
 - (b) Posting of the performance security in accordance with **ITB** Clause 33;
 - (c) Signing of the contract as provided in **ITB** Clause 32; and
 - (d) Approval by higher authority, if required, as provided in Section 37.3 of the IRR of RA 9184.
- d) At the time of contract award, the Procuring Entity shall not increase or decrease the quantity of goods originally specified in Section VI. Schedule of Requirements.

32. Signing of the Contract

- a) At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity shall send the Contract Form to the Bidder, which contract has been provided in the Bidding Documents, incorporating therein all agreements between the parties.

- b) Within ten (10) calendar days from receipt of the Notice of Award, the successful Bidder shall post the required performance security, sign and date the contract and return it to the Procuring Entity.
- c) The Procuring Entity shall enter into contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.
- d) The following documents shall form part of the contract:
 - (a) Contract Agreement;
 - (b) Bidding Documents;
 - (c) Winning bidder's bid, including the Technical and Financial Proposals, and all other documents/statements submitted (*e.g.*, bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
 - (d) Performance Security;
 - (e) Notice of Award of Contract; and
 - (f) Other contract documents that may be required by existing laws and/or specified in the **BDS**.

33. Performance Security

- a) To guarantee the faithful performance by the winning Bidder of its obligations under the contract, it shall post a performance security within a maximum period of ten (10) calendar days from the receipt of the Notice of Award from the Procuring Entity and in no case later than the signing of the contract.
- b) The Performance Security shall be denominated in Philippine Pesos and posted in favor of the Procuring Entity in an amount not less than the percentage of the total contract price in accordance with the following schedule:

Form of Performance Security	Amount of Performance Security (Not less than the Percentage of the Total Contract Price)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank. <i>For biddings conducted by the LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i>	Five percent (5%)

<p>(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.</p> <p><i>For biddings conducted by the LGUs, the Bank Draft/Guarantee or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i></p>	
<p>(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.</p>	<p>Thirty percent (30%)</p>

- c) Failure of the successful Bidder to comply with the above-mentioned requirement shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security, in which event the Procuring Entity shall have a fresh period to initiate and complete the post qualification of the second Lowest Calculated Bid. The procedure shall be repeated until the LCRB is identified and selected for recommendation of contract award. However if no Bidder passed post-qualification, the BAC shall declare the bidding a failure and conduct a re-bidding with re-advertisement, if necessary.

34. Notice to Proceed

Within seven (7) calendar days from the date of approval of the contract by the appropriate government approving authority, the Procuring Entity shall issue the Notice to Proceed (NTP) together with a copy or copies of the approved contract to the successful Bidder. All notices called for by the terms of the contract shall be effective only at the time of receipt thereof by the successful Bidder.

35. Protest Mechanism

Decisions of the procuring entity at any stage of the procurement process may be questioned in accordance with Section 55 of the IRR of RA 9184.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
1.a)	<p>The Procuring Entity is <i>Metals Industry Research and Development Center.</i></p> <p>The name of the Contract is Procurement of One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center</p> <p>The identification number of the Contract is <i>PR No. 19111153</i></p>
1.b)	<p>The lot(s) and reference is/are: <i>PR No. 19111153</i></p> <p>Procurement of One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center</p>
2	<p>The Funding Source is:</p> <p>The Government of the Philippines (GOP) through <i>FY 2019 Grant-in-Aid Project (Machinery and Equipment Outlay)</i> in the amount of <i>Five Million Five Hundred Thousand Pesos (Php5,500,000.00)</i>.</p> <p>The name of the Project is: <i>“Research on Advanced Prototyping for Product Innovation and Development Using Additive Manufacturing Technologies (RAPPID-ADMATEC)”</i></p>
3.a)	No further instructions.
5.a)	No further instructions.
5.b)	Foreign bidders, except those falling under ITB Clause 5.b)(b), may not participate in this Project.
5.d)	<p>The Bidder must have completed, within the period specified in the Invitation to Bid and ITB Clause 12.1(a)(ii), a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.</p> <p>For this purpose, similar contracts shall refer to <i>supply, delivery, installation, testing and commissioning of network equipment and Data Center Solution</i></p>
7	No further instructions.
a)	Subcontracting is not allowed.
b)	Not applicable.
9.a)	The Procuring Entity will hold a Pre bid Conference for this Project at 9:00 A.M. on Nov.22 22,2019 at <i>Mercury Conference Room, Third Floor, Gold Building, MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City.</i>

10.a)	<p>The Procuring Entity's address is:</p> <p>Ms. Mercedita G. Abutal BAC Chairperson Metals Industry Research and Development Center MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City Tel. No. 837-0431 local 442 and 444 bac@mirdc.dost.gov.ph Fax No. 837-0430</p>
a)(a)	No further instructions.
12.1(a)(ii)	The bidder's SLCC similar to the contract to be bid should have been completed within <i>five (5) years</i> prior to the deadline for the submission and receipt of bids.
13.a)	<i>List any additional requirements or state "No additional requirements."</i>
13.a)(b)	No further instructions.
13.1(c)	<i>List any additional required document(s) or state "No additional requirements."</i>
13.b)	The ABC is <i>Five Million Five Hundred Thousand Pesos (Php5,500,000.00)</i> . Any bid with a financial component exceeding this amount shall not be accepted.
15.4(a)(iv)	No incidental services are required.
15.d)(b)	No incidental services are required.
16.a)(b)	The Bid prices for Goods supplied from outside of the Philippines shall be quoted either in Philippine Pesos or United States Dollars at the discretion of the Bidder.
16.3	Payment shall be made in <i>Philippine Pesos</i> .
17.a)	Bids will be valid until <i>120 days</i> .
18.a)	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ol style="list-style-type: none"> 1. The amount of not less than <i>2% of ABC</i>], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or 2. The amount of not less than <i>5% of ABC</i>] if bid security is in Surety Bond.
18.b)	The bid security shall be valid until <i>120 days</i> .

20.c)	Each Bidder shall submit one (1) original and three (3) copies of the first and second components of its bid.
21	The address for submission of bids is <i>Mercury Conference Room, 3rd Floor, Gold Building, MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City.</i> The deadline for submission of bids is <i>Dec.11, 2019 at 9:00 A.M.</i>
24.a)	The place of bid opening is <i>Mercury Conference Room, 3rd Floor, Gold Building, MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City.</i> The date and time of bid opening is <i>Dec. 11, 2019 at 9:00 A.M.</i>
24.2	No further instructions.
24.3	No further instructions.
27.a)	No further instructions.
28.c) (a)	<p>Grouping and Evaluation of Lots –</p> <p><i>Lots should be formed of similar items that are likely to attract the maximum competition. A lot is the quantity and number of items that will be included in a single contract. For example:</i></p> <p><i>Option 1 – Each item to be evaluated and compared with other Bids separately and recommended for contract award separately.</i></p> <p><i>Option 2 - All items to be grouped together to form one complete Lot that will be awarded to one Bidder to form one complete contract.</i></p> <p><i>Option 3 - Similar items, to be grouped together to form several lots that shall be evaluated and awarded as separate contracts.</i></p> <p><i>Select one of the following paragraphs, delete the other.</i></p> <p>Partial bid is not allowed. The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p>
28.d)	No further instructions.
29.2	<p><i>List licenses and permits relevant to the Project and the corresponding law requiring it, or state.</i></p> <p>To ensure the quality of service, the contractor shall submit the following documents:</p> <p>Supervised by a Certified License Electronics and Communication Engineer.</p> <p>Supplier must have at least Three (3) Certified Data Center Professionals</p>

	<p>(CDCP) duly employed by the company for at least 5 years and above.</p> <p>Managed by a registered Project Manager (PM) and shall submit a certificate issued by the Project Management Institute (PMI).</p> <p>Contractors must have Philippine Contractors Accreditation Board (PCAB) licenses required by Republic Act 4566 to perform telecommunications/communications installations.</p> <p>The contractor shall be responsible for all required permits.</p>
32.d)(f)	<p><i>List additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, or state.</i></p>

Section IV. General Conditions of Contract

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1. Definitions

- a) In this Contract, the following terms shall be interpreted as indicated:
- (a) “The Contract” means the agreement entered into between the Procuring Entity and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - (b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
 - (c) “The Goods” means all of the supplies, equipment, machinery, spare parts, other materials and/or general support services which the Supplier is required to provide to the Procuring Entity under the Contract.
 - (d) “The Services” means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
 - (e) “GCC” means the General Conditions of Contract contained in this Section.
 - (f) “SCC” means the Special Conditions of Contract.
 - (g) “The Procuring Entity” means the organization purchasing the Goods, as named in the **SCC**.
 - (h) “The Procuring Entity’s country” is the Philippines.
 - (i) “The Supplier” means the individual contractor, manufacturer distributor, or firm supplying/manufacturing the Goods and Services under this Contract and named in the **SCC**.
 - (j) The “Funding Source” means the organization named in the **SCC**.
 - (k) “The Project Site,” where applicable, means the place or places named in the **SCC**.
 - (l) “Day” means calendar day.
 - (m) The “Effective Date” of the contract will be the date of signing the contract, however the Supplier shall commence performance of its obligations only upon receipt of the Notice to Proceed and copy of the approved contract.

- (n) “Verified Report” refers to the report submitted by the Implementing Unit to the HoPE setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.

2. Corrupt, Fraudulent, Collusive, and Coercive Practices

- a) Unless otherwise provided in the SCC, the Procuring Entity as well as the bidders, contractors, or suppliers shall observe the highest standard of ethics during the procurement and execution of this Contract. In pursuance of this policy, the Procuring Entity:
 - (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the Government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in Republic Act 3019.
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
 - (iii) “collusive practices” means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.
 - (iv) “coercive practices” means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;
 - (v) “obstructive practice” is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an

administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or

- (bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.

- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.

- b) Further the Funding Source, Borrower or Procuring Entity, as appropriate, will seek to impose the maximum civil, administrative and/or criminal penalties available under the applicable law on individuals and organizations deemed to be involved with any of the practices mentioned in **GCC Clause a)(a)**.

3. Inspection and Audit by the Funding Source

The Supplier shall permit the Funding Source to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Funding Source, if so required by the Funding Source.

4. Governing Law and Language

- a) This Contract shall be interpreted in accordance with the laws of the Republic of the Philippines.
- b) This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract. All correspondence and other documents pertaining to this Contract exchanged by the parties shall be written in English.

5. Notices

- a) Any notice, request, or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request, or consent shall be deemed to have been given or made when received by the concerned party, either in person or through an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the

SCC, which shall be effective when delivered and duly received or on the notice's effective date, whichever is later.

- b) A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SCC for GCC Clause a).

6. Scope of Contract

- a) The Goods and Related Services to be provided shall be as specified in Section VI. Schedule of Requirements.
- b) This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. Any additional requirements for the completion of this Contract shall be provided in the SCC.

7. Subcontracting

- a) Subcontracting of any portion of the Goods, if allowed in the **BDS**, does not relieve the Supplier of any liability or obligation under this Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants or workmen.
- b) If subcontracting is allowed, the Supplier may identify its subcontractor during contract implementation. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract. In either case, subcontractors must submit the documentary requirements under **ITB** Clause 12 and comply with the eligibility criteria specified in the BDS. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Goods shall be disallowed.

8. Procuring Entity's Responsibilities

- a) Whenever the performance of the obligations in this Contract requires that the Supplier obtain permits, approvals, import, and other licenses from local public authorities, the Procuring Entity shall, if so needed by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.
- b) The Procuring Entity shall pay all costs involved in the performance of its responsibilities in accordance with **GCC** Clause 6.

9. Prices

- a) For the given scope of work in this Contract as awarded, all bid prices are considered fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances and upon

prior approval of the GPPB in accordance with Section 61 of R.A. 9184 and its IRR or except as provided in this Clause.

- b) Prices charged by the Supplier for Goods delivered and/or services performed under this Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any change in price resulting from a Change Order issued in accordance with **GCC** Clause 29.

10. Payment

- a) Payments shall be made only upon a certification by the HoPE to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. Except with the prior approval of the President no payment shall be made for services not yet rendered or for supplies and materials not yet delivered under this Contract. Ten percent (10%) of the amount of each payment shall be retained by the Procuring Entity to cover the Supplier's warranty obligations under this Contract as described in **GCC** Clause 17.
- b) The Supplier's request(s) for payment shall be made to the Procuring Entity in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and/or Services performed, and by documents submitted pursuant to the **SCC** provision for **GCC** Clause 6.b), and upon fulfillment of other obligations stipulated in this Contract.
- c) Pursuant to **GCC** Clause b), payments shall be made promptly by the Procuring Entity, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier. Payments shall be in accordance with the schedule stated in the **SCC**.
- d) Unless otherwise provided in the **SCC**, the currency in which payment is made to the Supplier under this Contract shall be in Philippine Pesos.
- e) Unless otherwise provided in the **SCC**, payments using Letter of Credit (LC), in accordance with the Guidelines issued by the GPPB, is allowed. For this purpose, the amount of provisional sum is indicated in the **SCC**. All charges for the opening of the LC and/or incidental expenses thereto shall be for the account of the Supplier.

11. Advance Payment and Terms of Payment

- a) Advance payment shall be made only after prior approval of the President, and shall not exceed fifteen percent (15%) of the Contract amount, unless otherwise directed by the President or in cases allowed under Annex "D" of RA 9184.
- b) All progress payments shall first be charged against the advance payment until the latter has been fully exhausted.
- c) For Goods supplied from abroad, unless otherwise indicated in the **SCC**, the terms of payment shall be as follows:

- (a) On Contract Signature: Fifteen Percent (15%) of the Contract Price shall be paid within sixty (60) days from signing of the Contract and upon submission of a claim and a bank guarantee for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII. Bidding Forms.
- (b) On Delivery: Sixty-five percent (65%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents.
- (c) On Acceptance: The remaining twenty percent (20%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no inspection or acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days of the date shown on the delivery receipt, the Supplier shall have the right to claim payment of the remaining twenty percent (20%) subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the SCC provision on Delivery and Documents.

12. Taxes and Duties

The Supplier, whether local or foreign, shall be entirely responsible for all the necessary taxes, stamp duties, license fees, and other such levies imposed for the completion of this Contract.

13. Performance Security

- a) Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any the forms prescribed in the **ITB** Clause 33.b).
- b) The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the winning bidder is in default in any of its obligations under the contract.
- c) The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance.
- d) The performance security may be released by the Procuring Entity and returned to the Supplier after the issuance of the Certificate of Final Acceptance subject to the following conditions:
 - (a) There are no pending claims against the Supplier or the surety company filed by the Procuring Entity;

- (b) The Supplier has no pending claims for labor and materials filed against it; and
- (c) Other terms specified in the **SCC**.
- e) In case of a reduction of the contract value, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.

14. Use of Contract Documents and Information

- a) The Supplier shall not, except for purposes of performing the obligations in this Contract, without the Procuring Entity's prior written consent, disclose this Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Entity. Any such disclosure shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.
- b) Any document, other than this Contract itself, enumerated in **GCC** Clause a) shall remain the property of the Procuring Entity and shall be returned (all copies) to the Procuring Entity on completion of the Supplier's performance under this Contract if so required by the Procuring Entity.

15. Standards

The Goods provided under this Contract shall conform to the standards mentioned in the **Error! Reference source not found.**; and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the institution concerned.

16. Inspection and Tests

- a) The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Entity. The **SCC** and **Error! Reference source not found.** shall specify what inspections and/or tests the Procuring Entity requires and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- b) If applicable, the inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Entity. The Supplier shall provide the Procuring Entity with results of such inspections and tests.

- c) The Procuring Entity or its designated representative shall be entitled to attend the tests and/or inspections referred to in this Clause provided that the Procuring Entity shall bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- d) The Procuring Entity may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Procuring Entity, and shall repeat the test and/or inspection, at no cost to the Procuring Entity, upon giving a notice pursuant to **GCC** Clause 5.
- e) The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, shall release the Supplier from any warranties or other obligations under this Contract.

17. Warranty

- a) The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials, except when the technical specifications required by the Procuring Entity provides otherwise.
- b) The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- c) In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier for a minimum period specified in the **SCC**. The obligation for the warranty shall be covered by, at the Supplier's option, either retention money in an amount equivalent to at least one percent (1%) of every progress payment, or a special bank guarantee equivalent to at least one percent (1%) of the total Contract Price or other such amount if so specified in the **SCC**. The said amounts shall only be released after the lapse of the warranty period specified in the **SCC**; provided, however, that the Supplies delivered are free from patent and latent defects and all the conditions imposed under this Contract have been fully met.
- d) The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC** and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Procuring Entity.
- e) If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in **GCC** Clause d), the Procuring Entity may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense

and without prejudice to any other rights which the Procuring Entity may have against the Supplier under the Contract and under the applicable law.

18. Delays in the Supplier's Performance

- a) Delivery of the Goods and/or performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Entity in Section VI. Schedule of Requirements.
- b) If at any time during the performance of this Contract, the Supplier or its Subcontractor(s) should encounter conditions impeding timely delivery of the Goods and/or performance of Services, the Supplier shall promptly notify the Procuring Entity in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, and upon causes provided for under **GCC** Clause 22, the Procuring Entity shall evaluate the situation and may extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of Contract.
- c) Except as provided under **GCC** Clause 22, a delay by the Supplier in the performance of its obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to **GCC** Clause 19, unless an extension of time is agreed upon pursuant to **GCC** Clause 29 without the application of liquidated damages.

19. Liquidated Damages

Subject to **GCC** Clauses 18 and 22, if the Supplier fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in this Contract inclusive of duly granted time extensions if any, the Procuring Entity shall, without prejudice to its other remedies under this Contract and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. The maximum deduction shall be ten percent (10%) of the amount of contract. Once the maximum is reached, the Procuring Entity may rescind or terminate the Contract pursuant to **GCC** Clause 23, without prejudice to other courses of action and remedies open to it.

20. Settlement of Disputes

- a) If any dispute or difference of any kind whatsoever shall arise between the Procuring Entity and the Supplier in connection with or arising out of this Contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- b) If after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Procuring Entity or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

- c) Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under this Contract.
- d) In the case of a dispute between the Procuring Entity and the Supplier, the dispute shall be resolved in accordance with Republic Act 9285 (“R.A. 9285”), otherwise known as the “Alternative Dispute Resolution Act of 2004.”
- e) Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and the Procuring Entity shall pay the Supplier any monies due the Supplier.

21. Liability of the Supplier

- a) The Supplier’s liability under this Contract shall be as provided by the laws of the Republic of the Philippines, subject to additional provisions, if any, set forth in the SCC.
- b) Except in cases of criminal negligence or willful misconduct, and in the case of infringement of patent rights, if applicable, the aggregate liability of the Supplier to the Procuring Entity shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

22. Force Majeure

- a) The Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that the Supplier’s delay in performance or other failure to perform its obligations under the Contract is the result of a *force majeure*.
- b) For purposes of this Contract the terms “*force majeure*” and “fortuitous event” may be used interchangeably. In this regard, a fortuitous event or *force majeure* shall be interpreted to mean an event which the Supplier could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Supplier. Such events may include, but not limited to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c) If a *force majeure* situation arises, the Supplier shall promptly notify the Procuring Entity in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Entity in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the *force majeure*.

23. Termination for Default

- 23.1 The Procuring Entity may rescind or terminate a contract for default, without prejudice to other courses of action and remedies available under the circumstances when, outside force majeure, the Supplier fails to deliver or perform any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Procuring Entity pursuant to a request made by the Supplier prior to the delay, and such failure amounts to at least ten percent (10%) of the contract price;
- 23.2 The Procuring Entity may terminate the contract when, as a result of force majeure, the Supplier is unable to deliver or perform any or all of the Goods, amounting to at least ten percent (10%) of the contract price, for a period of not less than sixty (60) calendar days after receipt of the notice from the Procuring Entity stating that the circumstance of force majeure is deemed to have ceased;
- 23.3 The Procuring Entity shall terminate the contract when the Supplier fails to perform any other obligations under the Contract.
- 23.4 In the event the Procuring Entity terminates this Contract in whole or in part for any of the reasons provided under GCC Clause 23 to 26, the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Entity for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of this Contract to the extent not terminated.
- 23.5 In case the delay in the delivery of the Goods and/or performance of the Services exceeds a time duration equivalent to ten percent (10%) of the specified contract time plus any time extension duly granted to the Supplier, the Procuring Entity may terminate this Contract, forfeit the Supplier's performance security and award the same to a qualified Supplier.

24. Termination for Insolvency

The Procuring Entity shall terminate this Contract if the Supplier is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier.

25. Termination for Convenience

- a) The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The HoPE may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.
- b) The Goods that have been delivered and/or performed or are ready for delivery or performance within thirty (30) calendar days after the Supplier's receipt of

Notice to Terminate shall be accepted by the Procuring Entity at the contract terms and prices. For Goods not yet performed and/or ready for delivery, the Procuring Entity may elect:

- (a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Supplier.
- c) If the Supplier suffers loss in its initial performance of the terminated contract, such as purchase of raw materials for goods specially manufactured for the Procuring Entity which cannot be sold in open market, it shall be allowed to recover partially from this Contract, on a *quantum meruit* basis. Before recovery may be made, the fact of loss must be established under oath by the Supplier to the satisfaction of the Procuring Entity before recovery may be made.

26. Termination for Unlawful Acts

- a) The Procuring Entity may terminate this Contract in case it is determined *prima facie* that the Supplier has engaged, before or during the implementation of this Contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:
 - (a) Corrupt, fraudulent, and coercive practices as defined in **ITB** Clause 3.a)(a);
 - (b) Drawing up or using forged documents;
 - (c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
 - (d) Any other act analogous to the foregoing.

27. Procedures for Termination of Contracts

- a) The following provisions shall govern the procedures for termination of this Contract:
 - (a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Implementing Unit shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;
 - (b) Upon recommendation by the Implementing Unit, the HoPE shall terminate this Contract only by a written notice to the Supplier conveying the termination of this Contract. The notice shall state:

- (i) that this Contract is being terminated for any of the ground(s) afore-mentioned, and a statement of the acts that constitute the ground(s) constituting the same;
 - (ii) the extent of termination, whether in whole or in part;
 - (iii) an instruction to the Supplier to show cause as to why this Contract should not be terminated; and
 - (iv) special instructions of the Procuring Entity, if any.
- (c) The Notice to Terminate shall be accompanied by a copy of the Verified Report;
 - (d) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Supplier shall submit to the HoPE a verified position paper stating why this Contract should not be terminated. If the Supplier fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the HoPE shall issue an order terminating this Contract;
 - (e) The Procuring Entity may, at any time before receipt of the Supplier's verified position paper described in item (d) above withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Supplier's receipt of the notice;
 - (f) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the HoPE shall decide whether or not to terminate this Contract. It shall serve a written notice to the Supplier of its decision and, unless otherwise provided, this Contract is deemed terminated from receipt of the Supplier of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate;
 - (g) The HoPE may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the HoPE; and
 - (h) The Supplier must serve a written notice to the Procuring Entity of its intention to terminate the contract at least thirty (30) calendar days before its intended termination. The Contract is deemed terminated if it is not resumed in thirty (30) calendar days after the receipt of such notice by the Procuring Entity.

28. Assignment of Rights

The Supplier shall not assign his rights or obligations under this Contract, in whole or in part, except with the Procuring Entity's prior written consent.

29. Contract Amendment

Subject to applicable laws, no variation in or modification of the terms of this Contract shall be made except by written amendment signed by the parties.

30. Application

These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of this Contract.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1.a)(g)	The Procuring Entity is <i>Metals Industry Research and Development Center</i> .
1.a)(i)	The Supplier is
1.a)(j)	<p>The Funding Source is</p> <p>The Government of the Philippines (GOP) through <i>FY 2019 Grant-in-Aid Project (Machinery and Equipment Outlay)</i> in the amount of <i>Five Million Five Hundred Thousand Pesos (Php5,500,000.00)</i>.</p> <p>The name of the Project is: “<i>Research on Advanced Prototyping for Product Innovation and Development Using Additive Manufacturing Technologies (RAPPID-ADMATEC)</i>”</p>
1.a)(k)	The Project Site is <i>Metals Industry Research and Development Center (MIRDC)</i> .
2.1	No further instructions.
5.a)	<p>The Procuring Entity’s address for Notices is: <i>Metals Industry Research and Development Center, Gen. Santos Avenue, Bicutan Taguig City, Mary Grace Opon/Kristine Gealan, Tel. No. +632 837-0431 to 38, loc. 443/464, Fax. No. +632 837-0430.</i></p> <p>The Supplier’s address for Notices is:</p>
6.b)	<p><i>List here any additional requirements for the completion of this Contract. The following requirements and the corresponding provisions may be deleted, amended, or retained depending on its applicability to this Contract:</i></p> <p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>For Goods Supplied from Abroad, state “The delivery terms applicable to the Contract are DDP delivered [insert place of destination]. In accordance with INCOTERMS.”</i></p> <p><i>For Goods Supplied from Within the Philippines, state “The delivery terms applicable to this Contract are delivered [insert place of destination]. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</i></p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements.</p>

	<p>The details of shipping and/or other documents to be furnished by the Supplier are as follows:<i>For Goods supplied from within the Philippines:</i></p> <p>Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:</p> <ul style="list-style-type: none"> (i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii) Original and four copies delivery receipt/note, railway receipt, or truck receipt; (iii) Original Supplier's factory inspection report; (iv) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate; (v) Original and four copies of the certificate of origin (for imported Goods); (vi) Delivery receipt detailing number and description of items received signed by the authorized receiving personnel; (vii) Certificate of Acceptance/Inspection Report signed by the Procuring Entity's representative at the Project Site; and (viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site. <p><i>For Goods supplied from abroad:</i></p> <p>Upon shipment, the Supplier shall notify the Procuring Entity and the insurance company by cable the full details of the shipment, including Contract Number, description of the Goods, quantity, vessel, bill of lading number and date, port of loading, date of shipment, port of discharge etc. Upon delivery to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents as applicable with the documentary requirements of any letter of credit issued taking precedence:</p> <ul style="list-style-type: none"> (i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii) Original and four copies of the negotiable, clean shipped on board bill of lading marked "freight pre-paid" and five copies of the non-negotiable bill of lading ; (iii) Original Supplier's factory inspection report; (iv) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate; (v) Original and four copies of the certificate of origin (for imported Goods); (vi) Delivery receipt detailing number and description of items received signed by the Procuring Entity's representative at the Project Site; (vii) Certificate of Acceptance/Inspection Report signed by the Procuring Entity's representative at the Project Site; and
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	<p>(viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site.</p> <p>For purposes of this Clause the Procuring Entity's Representative at the Project Site is <i>[insert name(s)]</i>.</p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <p><i>Select appropriate requirements and delete the rest.</i></p> <ul style="list-style-type: none"> (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods; (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods; (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; (d) 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 (e) 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. <p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p> <p>Spare Parts –</p> <p>The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <p><i>Select appropriate requirements and delete the rest.</i></p> <ul style="list-style-type: none"> (a) such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and (b) in the event of termination of production of the spare parts: <ul style="list-style-type: none"> i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and
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	<p>specifications of the spare parts, if requested.</p> <p>The spare parts required are listed in Section VI. Schedule of Requirements and the cost thereof are included in the Contract Price</p> <p>The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods for a period of <i>[insert here the time period specified. If not used insert time period of three times the warranty period]</i>.</p> <p>Other spare parts and components shall be supplied as promptly as possible, but in any case within <i>[insert appropriate time period]</i> months of placing the order.</p> <p>Packaging –</p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the GOODS’ final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity</p> <p>Name of the Supplier</p> <p>Contract Description</p> <p>Final Destination</p> <p>Gross weight</p> <p>Any special lifting instructions</p> <p>Any special handling instructions</p> <p>Any relevant HAZCHEM classifications</p> <p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Insurance –</p> <p>The Goods supplied under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to</p>
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	<p>manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Procuring Entity.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered <i>force majeure</i> in accordance with GCC Clause 22.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP Deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Patent Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
10.4	Payment shall be made in <i>Philippine Pesos</i> .
10.5	Payment using LC is not allowed.
11.3	The terms of payment shall be <i>15 days after final certificate of acceptance was issued</i> .
13.d)(c)	<i>Specify additional conditions, if any, that must be met prior to the release of the performance security, otherwise, state “No further instructions”.</i>

16.a)	<p>The inspections and tests that will be conducted are:</p> <p>One (1) year maintenance with quarterly preventive maintenance visit</p>
17.c)	One (1) year after acceptance by the Procuring Entity of the delivered Goods.
17.d)	<p>The period for correction of defects in the warranty period is:</p> <p>Maintenance / Support</p> <p>One (1) year maintenance with quarterly preventive maintenance visit</p> <p>Warranty</p> <p>One (1) year parts and services</p> <p>One (1) year Workmanship</p>
21.a)	<i>State here “No additional provision.” or, if the Supplier is a joint venture, “All partners to the joint venture shall be jointly and severally liable to the Procuring Entity.”</i>

Section VI. Schedule of Requirements

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

[illegible]

Technical Specifications

Item	Specifications and Requirements	Statement of Compliance
		<p>Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.a)(a)(ii) and/or GCC Clause 2.a)(a)(ii).</p>

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
Item Name:	Detailed Specifications:	
1. COOLING SYSTEM		
1.1 Two (2) units Air Conditioner	<p>2.0HP Single split inverter type wall mounted 220 V 1PH atleast 57 hZ, with wireless remote Cooling Capacity – 16,557 (2,983-17,500) Power Consumption – 1,487 (227-1,718) Energy Efficient / EER – 10.3 (12.5-9.9) Sound Level@ Low – at least 45/35.3/ 23.7 Voltage,Frequency, Phase- 230-59-1 Ozone Friendly Refrigerant : Type- R410-A Physical Data (Indoor Net Dimension) W X H X D- 793 X 287 X 225 Physical Data (Outdoor Net Dimension) W X H X D – 777 X 545 X 287 Pipe Sizes (Liquid / Gas) – ϕ6.35 / ϕ12.7 Maximum Pipe Length – at least 18.5 One year warranty</p>	
2. DATA CENTER, POWER SYSTEM, MONITORING AND CONTROL SYSTEM		
2.1 One (lot) monitoring and control system with provision for anti-static setup and power system for a data center	<p>Control and Monitoring System: Supports Up to 6 intelligent sensor Virtual Sensors monitor power, Modbus, network devices, and other SNMP based equipment. Built-in graphing and data logging, internally or to a remote PC. Platform independent; free firmware upgrades and utilities. Enables Access Control of 2 Doors using single Door Control unit Supports Internal Audio Speaker Supports Internal Microphone Support 6 Full Auto Sense RJ-45 ports At least 3x RJ-45 Expansion Ports Capable of 10/100Mbps Ethernet Port Embedded web server display sensor information and live video from connected cameras Integrates with network management system via SNMPv1 and Encrypted SNMPv3 Stream sensor information directly to cellphone or PDA ability to connect external GPRS/ GSM modem, Bluetooth and Wi-Fi USB adapters. Uses Linux operating system One year warranty</p> <p>Power System: Supply and installation of cable ladders (150mm wide for cable raceway power cable, 300mm wide for cable</p>	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<p>raceway power cable)</p> <p>Supply and Installation of 3-phase electrical power distribution system, electrical cabinet, convenience power outlets, LED lighting fixtures, switches, and all electrical materials and accessories, including feeder line wires and components, royal cords, THHN wires, main and sub breakers and panel boards for the UPS, AC, and other auxiliary systems inside the server room.</p> <p>Raise floor:</p> <p>Supply and installation of raised flooring</p> <p>Supply and installation of 900mm x 2100mm x 12mm glass panel door, top and bottom analog frame</p> <p>Inclusive of painting works (as needed) and finishing, raised flooring, with all restoration works required for a 3m x 4m room</p>	
2.2 One (1) set Door Access Control System	<p>Should be capable to be integrated to monitoring and control system through a software command control application and platform.</p> <p>Capable of higher level of integration to the following system : CCTV Surveillance System, Car Parking, Intrusion System, Elevator / Lift Control, Point.</p> <p>Includes fingerprint controller, Exit reader, power supply in metal enclosure, Mifare Cards.</p> <p>One (1) year Warranty</p>	
2.3 Two (2) pcs. Inline power Meter	23cm power in / out cable with bare ends	
2.4 One (1) pc. Rope water sensor	10 feet with sensing module, standard 18 feet non-sensing cable and 8 feet sensing rope	
2.5 One (1) pc. Single port temperature and Humidity sensor	Extension cable 5ft included	
2.6 One (1) pc. Airlink USB-based GSM/GPRS	Modem for text alert	
3. FIRE SUPPRESSION SYSTEM		
3.1 One (1) lot Fire suppression system	<p>In accordance with the guidelines contained in NFPA 72 (2002), approved by Factory Mutual (FM), ANSI 864, 9th edition, UL Listed to ANSI 864.</p> <p>Capable of suppressing surface burning fire in Class A, B and C hazards. Ozone depleting potential (ODP) is zero</p> <p>Component Specification:</p>	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<ul style="list-style-type: none"> a. Beta cylinder assembly to be filled with at least 65 lbs and 36 lbs agent (1 unit) b. Complete Kit, with accessories, 24VDC c. Discharge Tube, Valve outlet adapter d. 360 degree Discharge Nozzle 8 port (2 Ea) e. Single releasing control Panel f. Back-up Battery. 12VDC (2 units) g. Smoke detector Ionization Sys Sensor h. Smoke detector Photoelectric Sys Sensor i. Standard base two wire (4 units) j. Manual release station (1 unit) k. Abort toggle switch station l. at least 5.5" diameter fire alarm (1 unit) m. Horne strobe system sensor (1 unit) <p>One (1) year warranty</p>	
4. SERVER		
4.1 One (1) set 2U Rackmount Server	<p>Processor: 5198 2.1 Ghz 32-Core Xeon Gold Processors</p> <p>Chipset: Intel C621</p> <p>Memory: at least 118gb DDR4 2666 ECC Registered; 10DIMM slots, Expansion Slots: atleast 3 x PCI-E 3.0 x 6 (FHHL), 2 x PCI-E 3.0 x 6 (LP), 1 x PCI-E 3.0 x14 for Add-on-Module (AOM), 1 x PCI-E 3.0 x 3 NVMe M.2 slot</p> <p>Onboard LAN: 2 x 1GbE LAN ports via Intel C621</p> <p>Onboard Graphics: ASPEED AST2500 BMC</p> <p>Storage Controller: Broadcom 3108 SAS / SATA add-on controller 2GB 1866MHz DDR3 on-card cache</p> <p>Storage: 3 x 4TB SATA Enterprise 7200 RPM RAID 5</p> <p>Drive Bays: atleast 6 x Hot-swap 3.5" SAS/SATA drive bays</p> <p>Power Supply: 998.5 W Redundant PSU Titanium Level (96% Efficiency)</p> <p>Cooling System: 3 x Hot-swap 7cm redundant PWM cooling fans, Format Factor: 2U Rackmount</p> <p>Three (3) years Warranty / 8 x 5 Next Business Days service, parts and labor</p>	
4.2 One (1) lic. Operating System	Windows Sever Datacenter 2019 64Bit English 1pk DSP OEI DVD 24 Core	
5. RACK SYSTEM AND PDUs 42U		
5.1 One (1) set 42U Rack	<p>With 595.5 X1069.5 C/W perforated doors w/ lock and key, slit slide panels, EIA Mounting rails; leveling feet; color black curved front door.</p> <p>A complete rack includes all of the following:</p> <ul style="list-style-type: none"> 1. Rack Frame 2. Top cover 3. Front door 4. Split side panels 	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	5. Cage nuts, washer and screw (48 sets) 6. Vertical cable panels for cable and mounting of PDU (2pcs) 7. Foot levelers (4pcs) 8. Rack Connector (2sets- 4pcs per rack) 9. All connection and accessories and screws 10. Rack basic PDU : at least 30A C20, 18way c13 + 2 way C18 meter, Black 11. Basic PDU, 8x14-14 Socket, 1U, Black Phil flex Royal Cord 3C #10 (55m) Twist Lock Outlet Set 4 sets	
5.2 One (1) set of Console Table and Chair	Standard office table and chair	
6. IT EQUIPMENT & VIDEO CONFERENCING SYSTEM FOR BOARD ROOM, TRAINING ROOM & CONFERENCE ROOM		
6.1 One (1) set Video Conferencing Main Unit	Support Multi-cast. Capable of Dual Network. Support Cascade Mode Application. Capable of Recording with USB Memory Enabling High-Definition Web Conferences. Broadband Stereo Full Duplex Audio. High quality video Full-HD 1080/60p Adjusts data traffic based on network congestion through the use of Rate Control function. With Remote Camera Control With a unique Echo Canceller and with Smooth 2-way conversation with broadband stereo. Easy-to-understand remote lectures and seminars are conducted at multiple sites Connect to a sub-camera to share zoom and still images Compatible with other brand device. With Low Bandwidth Communication Support External Control Interface Communication Method: SIP, H.323 Video Compression Method : H.260.5 (mainstream only), H.263, H.263+, H.263++ (reception only), H.263 High Profile, H.263 Baseline Profile Audio Compression Method: G.711 μ -law, A-law (3.4 kHz@64 kbps) G.722 (7.0 kHz@64 kbps) G.722.1 (7.0 kHz@32 kbps) G.722.1 Annex C (14.0 kHz@48 kbps/24 kbps) MPEG-4 AAC-LD Mono (7.0 kHz@32 kbps, 14.0 kHz@64 kbps, 22.0 kHz@96 kbps) MPEG-4 AAC-LD Stereo (14.0 kHz@64 kbps, 22.0	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	<p>kHz@96 kbps)</p> <p>No. of Channels: G.711/G.722/G.722.1/G.722.1 Annex C: 1</p> <p>MPEG-4 AAC-LD Mono: 1/ MPEG-4 AAC-LD Stereo: 2</p> <p>Remote Camera Control: H.223, H.279 (Zoom/Pan/Tilt/Preset)</p> <p>Dual Stream - Method: H.235 (H.321), BFCP (SIP)</p> <p>Multi-Monitor: atleast 2 displays</p> <p>No. of Applicable Resolution Frames - Main: Max. 1080p 25 frames/second, Sub: Max. 1080p 25 frames/second</p> <p>Encryption: SRTP (AES 126 bit), H.234 (AES 126 bit)</p> <p>Other: H.460</p> <p>Communication Bandwidth: 253 kbps to 22 Mbps</p> <p>Video Compatible Resolutions*1: 176 x 144p, 352 x 240p, 352 x 288p, 512 x 288p, 640 x 480p, 704 x 480p, 704 x 576p, 768 x 432p, 800 x 600p, 1024 x 768p, 1280 x 720p, 1280 x 768p, 1280 x 800p, 1920 x 1080p</p> <p>No. of Frames : Max. 57 frames/second (for H.264 1080p)</p> <p>Screen Display : Full-screen, Picture in Picture, Picture with Picture, Side by Side</p> <p>Audio : Echo canceller, Auto gain control, Stationary noise reduction, Lip synch, Equalizer, Mic mute</p> <p>I/O Terminals</p> <p>Video Input : Camera*2: HDMI main x 1, HDMI sub x 1 Input resolution: 1280 x 720p, 1920 x 1080i, 1920 x 1080p</p> <p>PC : RGB x 1(Mini D-sub 13pin), HDMI x 1*2 Input resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full-HD</p> <p>Video Output : HDMI x 2, HDMI x 1 (For own site/recording video), RCA x 1 (Component) Supported output resolutions: 1918 x 1080i, 1918 x 1080p</p> <p>Audio Input : Digital Boundary Microphone x 1 (KX-VCA001) Max. 4, Analogue Boundary Microphone x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*3*4 x 1 (ø3.5 mm), RCA*5 (Stereo) x 1</p> <p>Audio Output : HDMI*6, Stereo mini-plug*3*7 x 1 (ø3.5 mm), RCA*8 x 1 (Stereo)</p> <p>Network : RJ45 x 2 (1000BASE-T/100BASE-TX Full Duplex)</p> <p>External Control: RS-232C x 1 (Also used for maintenance)</p> <p>Others: USB 2.0*9 x 1, Camera Control Terminal x 1 (Not used)</p> <p>No. of Simultaneous Connection Sites: 16 (Expandable up to 24)</p> <p>Content Sharing: PC (RGB/HDMI), Sub-camera (HDMI sub)</p> <p>USB Host Mode (USB Memory): Updating Software, Recording,</p> <p>Import: Contact List / Profile*10 / Configuration Data /</p>	

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	<p>Encryption Data /</p> <p>Start-up Screen / Delivery Tree List</p> <p>Export: Contact List / Profile*10 / Configuration Data /</p> <p>Encryption Data /</p> <p>Delivery Tree List</p> <p>USB Device Mode: USB Video Class: Version 1.0 USB Audio Class: Version 1.0</p> <p>Network Protocol: TCP/IPv4, TCP/IPv6*11, UDP/IPv4, UDP/IPv6*11, DHCP, DNS, HTTP, HTTPS, TELNET, NTP</p> <p>Network Functions: Packet resending (ARQ), Forward Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary Port Setting, NAT Compatibility, Encryption, IP Precedence/DiffServ Support</p> <p>External Control: Via Web Browser, Control by HTTP CGI, TELNET, RS-232C</p> <p>Connection Modes: IP mode, NAT Traversal mode, IP / NAT Traversal mode</p> <p>Dimensions (width x depth x height): Approx. 318 mm x approx. 267 mm x approx. 59 mm (Excluding projecting parts)</p> <p>Weight: Approx. 3.3 kg (approx. 7.3 lb)</p> <p>Power Input: AC 100-240 V, -1.0 A, 45/55 Hz</p> <p>Power Consumption: Maximum: approx. 70 W, Standby: 0.5 W</p> <p>DC Power Input: DC 24 V, 2.5 A</p> <p>Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)</p> <p>Operating Humidity: 10 % to 90 % (non-condensing)</p> <p>Language: English, German, French, Italian, Spanish, Dutch, Portuguese, Japanese, Russian, Chinese, Arabic</p> <p>With 1 free HDVC Mobile License for 1 year</p> <p>One (1) year warranty</p>	
6.3 Three (3) set Video Conferencing Microphone	<p>Maximum Pickup Range : Approx. 3.5 m (radius)</p> <p>Pickup Method : Stereo / Monaural *11.5</p> <p>"Microphone Unit : Unidirectional ECM microphone parts at least x 3"</p> <p>Number of Connections : Maximum 4 microphones</p> <p>Maximum Input Sound Pressure : 105 dBspl</p> <p>Number of Terminals for Microphone Connection : 2</p> <p>Dimensions : Approx. 118 mm (diameter) x 25 mm</p> <p>Cable Length : Approx. 7.5 m</p> <p>Power Input : Supplied from main unit via proprietary cable</p> <p>Weight : Approx. 275 g</p> <p>Operating Temperature : 0 °C to 40 °C</p> <p>Operating Humidity : 10 % to 90 % (non-condensing)</p> <p>One (1) year warranty</p>	
6.4 One (1) set Extension Cable for Microphone	<p>Dimensions (diameter x length) : 7 mm (cable outer diameter) x 20 m</p> <p>Weight : 1.3 kg</p> <p>Operating Temperature : 0 °C to 40 °C</p>	

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unit	Operating Humidity : 10 % to 90 % (non-condensing)	
6.5 One (1) set Video Conference Camera	<p>Effective Pixels: 1918 x 1080i, 1918 x 1080p Pan / Tilt : Pan: $\pm 95^{\circ}$, Tilt: $\pm 19^{\circ}$ Zoom (optical/digital) : 2x / 3x Angle of view (optical zoom) : Horizontal angle of view, 80° (Wide end) – 29.5° (Tele end), Vertical angle of view 65.4° (Wide end) -, 20.5° (Tele end), F1.2 (Wide end) -, F2.1 (Tele end); Presets : at least 10 positions Connection Cable : HDMI Dimensions (width x depth x height) : Approx. 130 mm x approx. 125 mm x approx. 134 mm Weight : Approx. 0.6 kg Operating Temperature : 0 °C to 40 °C Operating Humidity : 10 % to 90 % (non-condensing) One (1) year warranty</p>	
6.6 One (1) set LCD Laser Projector	<p>Technology: Laser LCD. Brightness: at least 5 000 - 5 450 lumens. Power Supply AC 100-240 V, 45.5- 58 Hz Power Consumption: *1 435W (during standby) Approx. 0.4 W (When [STANDBY MODE] is set to [ECO]) Approx. 20 W (When [STANDBY MODE] is set to [NORMAL]) Approx. 47 W(When [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and USB memory is inserted in the terminal) Approx. 115 W(When [QUICK STARTUP] is set to [ON], [IN STANDBY MODE] in [AUDIO SETTING] is set to [ON], maximum audio is output, and the power is supplied from the terminal BTU Value: Max 1,533BTU LCD Panel Panel Size: 17.3 mm (0.76 inches) diagonal (16:10 aspect ratio) LCD Panel Display Method:Transparent LCD panel (x 3, R/G/B) LCD Panel Drive Method: Active matrix method LCD Panel Pixels:2,299,000 (1918 x 1198) x 3, total of 6,899,000 pixels Light Source: Laser Diode Laser class 1(Class3R for US models) Illumination Life of Set: Varies depending on operation mode setting. 20,000 hours at half luminance * IEC62087: 2008 Broadcast contents, Dynamic contrast [2], Temperature: 30°C (86F), Under conditions of 0.15 mg/m 3 of particulate matte Projection Size: 1.02–10.16 m (40–400 inches) diagonally, 16:10 aspect ratio Light output * 5 000 - 5 450 lumens (Input signals: PC, Operating mode: Normal, Dynamic mode) Center-to-Corner Uniformity: 90% Contrast Ratio: *1 2,999,000:1(all white/all black)(Dynamic Contrast 1 or 2) (Input signals: PC, Operating mode: Normal, Dynamic mode) Resolution: WUXGA 1918 x 1198 pixels Scanning Frequency RGB: fH: 15- 91kHz, fV: 24 - 100Hz, dot clock: 162 MHz or less</p>	

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	<p>Scanning frequency YPBPR(YCBCR): 480i (525i): fH 15.73 kHz; fV 59.94 Hz, 576i (625i): fH 15.63 kHz; fV 50 Hz, 480p (525p): fH 31.47 kHz; fV 59.94Hz, 576p (625p): fH 31.25 kHz; fV 50 Hz, 720 (750)/60p: fH 45.00 kHz; fV 60 Hz, 720 (750)/50p: fH 37.50 kHz; fV 50 H z, 1080 (1125)/60i: fH 33.75 kHz; fV 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fV 50 Hz, 1080 (1125)/25p: fH 28.13 kHz; fV 25 Hz, 1080 (1125)/24p: fH 27.00 kHz; fV 24 Hz, 1080 (1125)/24sF: fH 27.00 kHz; fV 48 Hz, 1080 (1125)/30p: fH 33.75 kHz; fV 30 Hz, 1080 (1125)/60p: fH 67.50 kHz; fV 60 Hz, 1080 (1125)/50p: fH 56.25 kHz; fV 50 Hz</p> <p>Scanning Frequency Video: fH: 14.70 kHz / 15.20 kHz fV: 55.55 Hz / 45.5 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]</p> <p>Scanning Frequency HDMI/DIGITAL LINK: · Moving image signal resolution: 480i (525i)*2, 576i (625i)*2, 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p, 1080 (1125)/50p Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace) · Dot clock frequency: 25 MHz to 162 MHz</p> <p>Optical Axis Shift: Vertical ±67%, Horizontal ±35% (Supplied lens/ET-ELS20/ET-ELW20/ET-ELT20/ET-ELT21) Vertical ±60%, Horizontal ±30% (ET-ELW22) NOTE: Optical axis shift function cannot be operated when used with the ET-ELW21.</p> <p>Installation: Ceiling/desk/AUTO, front/rear, 360 degree free installation</p> <p>Speaker: 3.5 cm round-type x 1</p> <p>Maximum Usable Volume Output: 8.5 W (monaural)</p> <p>Terminals HDMI 1 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz)</p> <p>Terminals HDMI 2 In: HDMI 19 pin, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 45 kHz/44.1 kHz/32 kHz)</p> <p>Terminals RGB 1 In: BNC (female) x 4, RGB/Y PB/PR (CB/CR)</p> <p>Terminals RGB 2 In: D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR)</p> <p>Terminals Monitor Out:D-Sub 15 p (female) x 1, RGB/Y PB/PR (CB/CR)</p> <p>Terminals Video In:Pin jack x 1</p> <p>Terminals Audio In 1: M3 stereo jack x 1(L-R)</p> <p>Terminals Audio In 2: M3 stereo jack x 1(L-R)</p> <p>Terminals Audio In 3: Pin jack x 2(L-R)</p> <p>Terminals Variable Audio Out: M3 jack, 0 V[rms] to 2.0 V[rms] variable, output imedance 2.2 k ohms and less</p> <p>Terminals Serial In: D-sub 9 pin, RS-232C compliant, for computer control use</p> <p>Terminals REMOTE 1:D-Sub 9 p (female) x 1, for</p>	

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	<p>external control (parallel) Terminals REMOTE 2:M3 jack x 1(L-R) for link control (for wired remote control) Terminals LAN: RJ-45 x 1 for network connection, 10/100Base-TX, compliant with PLink™(Class 2) Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compliant with PLink™(Class 2), Deep Color, HDCP Terminals VIEWER / PAIRING: USB type-A x 1 Terminals DC Out: USB type-A x 1(DC 5V, 2A(Max)) Power Cord Length:3.0m(9ft 10in) Noise Level: *1 32dB (Operating mode: NORMAL/ECO), 26dB (Operating mode: QUIET) Operating environment Temperature: 0°C (32°F) to 45°C (113°F) The projector cannot be used at an altitude of 2,700 m (8,858') or higher above sea level. The light output may decrease to protect the projector when the operating environment temperature exceeds 36 °C (96.8 °F). Operating Environment Humidity: 20% to 80% (no condensation) One (1) year warranty</p>	
6.7 One (1) pc. Unmanaged PoE fiber switch	Support at least 20+3*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber slot ports, port 1-23 can support IEEE 802.3af/at PoE standard, Built-in 235W power supply. Support 1U/18 inch rack installation.	
6.8 One (1) pc. Router	Supports 802.11ac standard Simultaneous 2.4GHz 300 Mbps and 5GHz 867 Mbps connections for 1198 Mbps of total available bandwidth	
6.9 Two (2) sets Laser Projector	<p>Laser LCD, 4,500 – 4,900 lumens, WUXGA Compact and lightweight body bringing high brightness dynamic image Long lasting laser light source provide consistent brightness 1.3 x zoom and wide horizontal and vertical lens shift for flexible installation Long lasting laser light source and low-maintenance design provide high brightness and superb image quality Light output*1: 4,500 – 4,900 lumens Technology: Laser LCD LCD panel Panel size (mm): 14 mm diagonal (15:9 aspect ratio) LCD panel Panel size (inch): 0.62 inch diagonal (15:9 aspect ratio) LCD panel Display method: Transparent LCD panel (x 3, R/G/B) LCD panel Drive method: Active matrix LCD panel Pixels: 2,304,000 (1918 x 1198) x 3, total of 5,500,000 pixels LENS: 1.6 x Manual zoom (throw ratio 1.09-1.77 :1), F = 1.60-2.12, f = 15.30-24.64 mm Light source: Laser diode</p>	

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	<p>Screen size (diagonal) (mm): 0.76 - 7.62 m, 16:10 aspect ratio</p> <p>Screen size (diagonal) (inch): 25-298 in, 15:9 aspect ratio</p> <p>Center-to-corner uniformity*1: 85%</p> <p>Contrast*1: 2,999,000:1 (all white/all black) (Input signals:PC,LIGHT POWER:NORMAL,PICTURE MODE:DYNAMIC,DAYLIGHT WIEW:OFF,DYNAMIC CONTRAST:[1],AUTO POWER SAVE:OFF)</p> <p>Resolution: 1918 x 1198 pixels</p> <p>Optical axis shift Vertical (from center of screen): 0 % - +44 % (Manual)</p> <p>Optical axis shift Horizontal (from center of screen): - 20% - +20% (Manual)</p> <p>Keystone correction range*2: Vertical: $\pm 22^{\circ}$, Horizontal: $\pm 33^{\circ}$</p> <p>Installation: Horizontal/Vertical, free 360-degree installation</p> <p>Terminals HDMI 1/2 IN: HDMI 18-pin x 2 (Compatible with HDCP, Deep Color, 4K/30p signal input)</p> <p>Terminals COMPUTER 1 IN: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR)</p> <p>Terminals COMPUTER 2 IN / MONITOR OUT: D-sub 13-pin (female) x 1 (RGB/YBPBR/YCBCR) (input/output switching)</p> <p>Terminals VIDEO IN: Pin jack x 1</p> <p>Terminals AUDIO 1/2 IN: M3 stereo mini-jack x 2</p> <p>Terminals AUDIO 3 IN: Pin jack (L/R) x 1</p> <p>Terminals VARIABLE AUDIO OUT: M3 stereo mini-jack x 1</p> <p>Terminals SERIAL IN: D-sub 9-pin x 1 for computer control (RS-232C compliant)</p> <p>Terminals LAN: RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ (Class 2)</p> <p>Terminals DIGITAL LINK/LAN: RJ-45 x 1 for network and DIGITAL LINK connection, HDBase-T™ compliant, 100Base-TX, compatible with PLink™ (Class 2), HDCP, Deep Color, 4K/28p signal input</p> <p>Terminals USB CONNECTOR: USB connector (Type A) x 1 for Memory Viewer function, power supply (DC5V, maximum 2A*3), optional wireless module AJ-WM50</p> <p>Power supply: AC 100-240 V AC, 45/55 Hz</p> <p>Power consumption: TBD</p> <p>Built-in Speaker: 10 W (monaural)</p> <p>Operating noise*1: NORMAL: 35dB, QUIET: 27dB</p> <p>Cabinet materials: Molded plastic</p> <p>Filter: Included</p> <p>Filter cleaning cycle: 18,500 hours (0.08 mg/m3 of particulate matter), 9,900 hours (0.15 mg/m3 of particulate matter)</p> <p>Dimensions (W x H x D) (mm): 399 x 115 x 348 mm (Not including protruding parts)397 x 131 x 344 mm (With feet at shortest position)</p> <p>Dimensions (W x H x D) (inch): 15 23/32 x 4 17/32 x 13</p>	

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	11/16 inch (Not including protruding parts)15 23/32 x 5 1/4 x 13 11/16 inch (With feet at shortest position) Weight (kg)*4: 7.2 kg Weight (lbs.)*4:15.87 lbs. Operating environment (°C/M): Operating temperature: 0 °C- 45 °C, operating humidity: 20 %-80 % (no condensation) Operating environment (°F/Feet): Operating temperature: 32 °F -113 °F, operating humidity: 20 %-80 % (no condensation) Applicable software/application: Logo Transfer Software, Multi Monitoring & Control Software, Presenter Light for Windows®, Wireless Projector Apps for iOS/Android™ With Ceiling mount bracket One (1) year warranty	
6.10 Three (3) pcs. 102.5” Motorized Screen (15:9)	Installation Options: Floating Wall Mount / Ceiling Mount / Suspended Mount (using the “L bracket”). Control Options: IR / RF / RS485 + Dry Contact Control / 3-12 Voltage Trigger Control / Central Control / IP. Control - • Colour: Black / White• Aluminum Casing	
6.11 Two (2) sets Amplifier System	Minimum of 61W , 97 Volt Height- rack units (1U=43 mm) in U : 2 Depth (incl front) in mm : at least 293 Emergency power supply: 24 VDC Output power RMS 100 volts in watts : 63 Dynamic output power 100 volts in watts: 63 Output power tapings : 97 – 67 volts – 7 ohms MIC inputs balanced: 2 Line input unbalanced: 1 Priority switch : 1 Chime : yes Priority output : 0 Frequency response (in Hz) : 59 – 17 k Applicable in 100V : yes Net weight product (kg) : 5.39 Depth (build in) in mm : 273 Power supply : 115 - 230 VAC Power consumption (max) in watts : 167 Output power RMS 8 ohms in watts : 63 Minimum impedance load in ohms : 7 Zone outputs : 1 Inputs with Phantom power : 2 Tone control yes VOX mute: yes Emergency input : 0 Priority levels : 2 Cooling system: convection Applicable low impedance : yes Includes one (1) unit Multimedia player system: HDMI Full HD Support; Full HD Video; Full HD Sound; Full HD Microphone	

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	<p>User Contents</p> <ul style="list-style-type: none"> - Fast USB to HDD Transfer - Edit (Rename, Delete, Modify) - Auto Song Numbering assignment <p>Recording function</p> <ul style="list-style-type: none"> - MTV, Chorus, MIDI may be recorded - Transfer Recordings to USB - Edit (Rename, Delete, Modify) - External USB HDDs Supported via USB connectivity <p>Multimedia Function</p> <ul style="list-style-type: none"> - Full Playback Function - avi, rmbv, mkv, mpg, wmv, etc. - mp3, wma, aac, wav, etc. - jpg, bmp, gif, etc. <p>Specifications:</p> <p>Processor: Cortex-A9 1.2GHz Dual core</p> <p>RAM: DDR3, 1GB Memory</p> <p>Operating System: Android 4.2 Jelly Bean</p> <p>Storage: 1TB HDD</p> <p>Microphone Input: Two (2) slots available</p> <p>Microphone Volume: Available</p> <p>Echo Volume: Available</p> <p>USB Compatibility: Two (2) USB 2.0 Port</p> <p>LED Backlit Buttons: Available</p> <p>TV Input Channel: HDMI</p> <p>: Video Out</p> <p>:YPbPr Video Out</p> <p>:Composite Video Out</p> <p>Background Video Input: Two (2) Input Available</p> <p>Audio Output :Analog Audio Out</p> <p>:Optical Audio Out</p> <p>:Coaxial Audio Out</p>	
6.12 Four (4) sets Wall Speaker	<p>Components</p> <p>At least 7" woofer with woven fiberglass cone</p> <p>1" PEI diaphragm tweeter with fluid cooling</p> <p>Contemporary, high-design appearance</p> <p>Built-in InvisiBall® mounting hardware, plus available U-bracket</p> <p>Weather resistant enclosure and transducers</p> <p>Wide 90° x 90° coverage</p> <p>115W power handling (235W program) in direct 7Ω setting, plus built-in 55W 65V/95V multi-tap transformer</p> <p>High fidelity sound character with broad frequency response of 40 Hz – 18 kHz</p> <p>System</p> <p>Frequency Range (-10 dB) - 40 Hz – 18 kHz</p> <p>Frequency Response (±3 dB) - 60 Hz – 15 kHz</p> <p>Power Rating: 235W Continuous Program (2 hrs) 118W</p>	

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	<p>(475W peak), Continuous Pink Noise (2 hrs) 90W (360W peak) Continuous Pink Noise (100 hrs) Maximum Input Voltage – 27.5 V RMS (2 hrs), 55.0 V peak Maximum SPL3 – 112 dB ave. Continuous Pink Noise (118 dB peak) Sensitivity – 91 dB, 1W/1m (ave. 100 Hz – 10 kHz) Coverage Angle - 90° x 90° Directivity Factor (Q) - 7.3 (averaged 1kHz – 16kHz) Directivity Index (DI) – 8.3dB (averaged 1kHz – 16kHz) Nominal Impedance – 7 ohms (THRU setting) Crossover Type - 2nd order low-pass, 1st order high-pass, plus conjugate shaping</p> <p>Circuitry Transformer Taps – 65V: 55W, 25W, 10W, 6.5W 95V: 55W, 25W, 10W Insertion Loss: <0.94 dB at any tap setting Thru Setting: 7Ω nominal Recommended Protective High-Pass – 6 45 Hz high-pass (24 dB/oct) for 8Ω operation plus 15W and 7.5W taps; 55 Hz for 30W tap; 65 Hz for 60W tap</p> <p>Transducers Low Frequency – 198 mm (8 in), woven-fiberglass cone with pure butyl rubber surround with Weather-Edge frame protection, high-temp fiberglass voice coil former, high-temp voice coil wire, optimized cone geometry, linear suspension spider, and FEA optimized motor structure High Frequency – 23 mm (1 in) PEI diaphragm, low-viscosity ferromagnetic fluid, and lightweight Kapton™ voice coil former</p> <p>Physical Enclosure Material - High Impact Polystyrene (HIPS) with 10% glass fill, painted with highly-UV resistant paint on white (-WH) version for maximum UV fade resistance Grille – Highly zinc-plated, finished in durable TGIC polyester powder coating. MTC-28WMG-1 (&-WH) available with Weather-Max™ multi-layer foam and tight-weave mesh vapor barrier backing. Installation – InvisiBall wall-mounting system included. Two 6 mm attachment points (on top and bottom) for optional MTC-28WMG-1 (&-WH) U-bracket. Secondary safety attachment loop point on back panel. Agency Rating – ROHS-compliant; Transformer UL Recognized per UL1876 Dimensions - (H x W x D) 7 386 x 282 x 219 mm (15.2 x 11.1 x 8.6 in); 277 mm (10.9 in) deep total when mounted on InvisiBall wall-mount bracket; Net Weight – 6.8 kg (15.0 lbs) One (1) year warranty</p>	
6.13 Two (2) sets Dual Handheld Microphone	<p>Designed metal housing with distinctive Aesthetic and ergonomic style Interchangeable capsule module with premium condenser Patented capsule suspension design virtually Eliminates</p>	

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	vibration and handling noises Built-in high-efficiency antenna Backlit LCD displays all operational parameter information Provides precise and rapid frequency sync to the receiver Technical Specifications Frequency Range – UHF 478 – 931 MHz Bandwidth – 21 MHz Oscillation Mode – PLL Synthesized RF Output Power - 9 ~ 27mW (country dependent) Deviation - < ± 40 kHz Spurious Emissions < -53 dBc LCD Display - Group, Channel, Battery status & error codes Max. SPL – 135 dB SPL Battery Type - 2 x AA alkaline Operating Time – Min. 12 hours (Low Power) Current Consumption – Approx. 92 mA Dimensions - (Ø x L) 51 x 234 mm 2 x 9.2 " Net Weight - Approx. 251 g 8.9 oz	
6.14 One (1) lot Speaker cable transparent #16 AWG, Interconnector	(XLR Male to XLR Female 1m), 3.5mm stere plug-2 X RCA Plug (1.5m)	
7. PABX EQUIPMENT		
7.1 One (1) set PBX Main Unit	Support Multi-site networking. SIP Networking for Low cost. Flexible expansion by adding activation key. Support small to large communication system. Up to maximum 992 (with DXDP 1152) Extensions. Built-in support for Advanced IP extensions as well as standard SIP phones. Easy Migration to IP SIP trunking Integrated SIP telephony via ITSPs* and other SIP trunk Providers. It is a high intuitive PC Based application suit that blend powerful point and click telephony. Wireless Mobility Solutions. Built-in and Optional Voice Mail Processing system. Reduced Total Cost of Ownership.	
7.2 Two (2) sets 24-Port SLT Extension Card	Physical Extension Cards with Caller ID and Message Lamp Card	
7.3 One (1) set 8-port Digital Extension Card	Physical Extension Cards	

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7.4 One (1) set Power Supply unit	L-Type	
7.5 One (1) set Back-up battery Cable	included	
7.6 One (1) set 16-ch VoIP DSP Card	16 channel digital signal processor card with one 4 channel IP trunk SHGW4 activation key and one 8 channel IP proprietary telephone IPPT8 activation key pre-installed Compliant with ITU-T G.729a and G.711 codec methods Mounts on IPCMPR card	
7.7 Three (3) sets 3-Line LCD Digital Proprietary Telephone	3-Line Backlight LCD Display; 24 Flexible CO Buttons Full Duplex Speakerphone; EHS Support Specifications: Main LCD Display (Lines/Characters) – 3/16 LCD Backlight- Yes Flexible CO Keys – 24 Navigator Keys- Yes Soft Keys – 4 Call Log Incoming/Outgoing Calls- Yes / Yes Speakerphone - Yes (Full Duplex) Headset Port – Yes Electric Hook Switch (EHS)*1 – Yes Dimensions (mm) *2 (Width x Depth x Height) High Position267x170x180Low Position267x187x155Weight (g)*31070ColorBlack, White	
7.8 One (1) set 1-Line Digital Proprietary Telephone	1-line Graphical LCD with backlighting; 8 freely programmable function keys; Speaker Phone, handset and headset with full duplex; Available in black and white colour Specification: LCD Type - Graphic LCD Dots (W x H) 160 x 18 LCD Line 1 LCD Character 16 LCD Backlight Yes (On/Automatic/Off) Headset Yes (2.5 mm audio jack) Full Duplex Electronics Hook Switch (EHS) No Speakerphone Yes (Full Duplex) External Expansion 1 DXDP port Bluetooth (for Headset) No DXDP Yes XDP No Data Transmission Capability PBX to DPT: Cable fÓ0.5	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	mm 500 m DPT to DPT: Cable fÓ0.5 mm 50 m Wall Mount Kit Yes (Option) Dimension (W x D x H mm) LOW: 205 x 160 x 170 FF Keys 8 Soft Keys No 0-9, *, # Keys Yes Redial Key Yes Flash/Recall Key Yes Hold Key Yes SP-Phone Key Yes Auto Answer/Mute Key Yes Auto Dial/Store Key Yes Transfer Key Yes Intercom Key Yes Pause Key - Yes CONF Key - Yes FWD/DND Key No Message Key Yes Navigator Key No 4-Directions Key Yes Cancel Key No LED Message/Ringer Lamp Yes (Green/Red) LED FF Keys Yes (Green/Red) LED Intercom Yes (Green) LED SP-Phone Yes (Red) LED Auto Answer/Mute Yes (Red) LED Auto Dial/Store Yes (Red) LED CONF No LED FWD/DND Yes (Red) Message/Ringing Lamp Yes OHCA Yes Bluetooth Headset Adapter No Auto Redial No Off-Hook Monitor Yes Handset/Headset Mic Mute Yes Speakerphone Mic Mute Yes Phone Directory Yes Feature Access No Outgoing Call Log Yes Incoming Call Log Yes Audio Codec Yes (G.711) USB Unit I/F No System Programming No Station Programming Yes*1 Electric Volume Headset 6 levels Electric Volume Handset 6 levels Electric Volume Speakerphone 8 levels Electric Volume Ringer 4 + Off LCD Contrast 4 levels Tones/Music Ring Tone 8 Tones/Music on Hold No (Tone) Footnote *1 To operate by PROGRAM Key or PAUSE	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
	Key	
7.9 One (1) set 4-Ch IP Trunk	4-Channel H.323/SIP Gateway Activation Key	
7.10 Twelve (12) sets Basic Single Line Telephone	Integrated Telephone System Choice of Five Colors: black, white, red, dark blue and grey; Wall Mountable; Last Number Redial; Timed Flash Electronic Volume Control; 3-Step Ringer Selector Switchable Tone/Pulse Settings Specifications: Dial Mode: Tone (DTMF)/pulse Redial: One-touch (32 digits) Flash: 600 ms Power Source: Telephone line Dimensions (H x W x D): 96 mm x 150 mm x 200 mm Weight: 475 g	
7.11 One (1) set AVR 1000W	included	
7.12 Three (3) sets 12V Battery	included	
7.13 Five (5) sets Krone Terminal	included	
7.14 Three (3) sets Amphenol Cable with Head	included	
8. Supply and installation of IT equipment for the data center and other ICT equipment. Including (Refrigerant piping type M hard drawn copper pipe) and	included	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center	Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.	
ACCU to FCU electrical power supply (THHN Philflex) with PVC flexible conduit. 1" diameter PVC condensate drain pipe including insulating using 3/8" thick rubber insulation wrapped with polyethylene tape. Installation of FM200. installation of fire suppression control panel, programming and configuration. Installation of monitoring and access control system, configuration, testing and commissioning. PABX installation, tracing, termination, programming and testing. Tracing, termination and programming for HD visual communication system, projectors and audio system. Testing and commissioning of all equipment,	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
miscellaneous and consumables and training of all the system and integration.		
9. OTHER REQUIREMENTS		
	9.1 To ensure the quality of service, the contractor shall submit the following documents:	
	Supplier must have at least five (5) years of experience in supply, delivery, installation, testing and commissioning of network equipment and structured cabling system / Data Center Solution.	
	Supplier must have completed at least one (1) similar projects in supply, delivery, installation, testing and commissioning of network equipment and Data Center Solution.	
	The supplier shall submit implementation time-line that reflects all the milestones in Gantt chart.	
	Supervised by a Certified License Electronics and Communication Engineer.	
	Supplier must have at least Three (3) Certified Data Center Professionals (CDCP) duly employed by the company for at least 5 years and above.	
	Managed by a registered Project Manager (PM) and shall submit a certificate issued by the Project Management Institute (PMI).	
	Contractors must have Philippine Contractors Accreditation Board (PCAB) licenses required by Republic Act 4566 to perform telecommunications/communications installations.	
	The contractor shall be responsible for all required permits.	
9.2 Maintenance / Support	One (1) year maintenance with quarterly preventive maintenance visit	
9.3 Warranty	One (1) year parts and services One (1) year Workmanship	
9.4 Training	Operations and Maintenance Training prior to the acceptance of the project. Including lectures and actual demonstration for at least 8 hours for minimum of ten (10) participants.	

Item Description: One (1) Lot IT System (Server, Switch, LAN, WAN, etc.), Monitoring and Control System with provision for anti-static setup and power system for a data center		Statement of Compliance
Purpose: To support day-to-day operation of delivery units and information exchange among AMCEN's customers, partners and stakeholders.		
9.5 Delivery / Project Duration	Project must be completed within 120 days upon receipt of Notice to Proceed	
9.6 Operations & Maintenance Manual (English)	Included	

Section VIII. Bidding Forms

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Bid Form

Date: _____
Invitation to Bid¹ N°: _____

To: *[name and address of Procuring Entity]*

Gentlemen and/or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[description of the Goods]* in conformity with the said Bidding Documents for the sum of *[total Bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in **BDS** provision for **ITB** Clause 18.b) and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:²

Name and address of agent	Amount and Currency	Purpose of Commission or gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____
(if none, state "None")		

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

¹ If ADB, JICA and WB funded projects, use IFB.

² Applicable only if the Funding Source is the ADB, JICA or WB.

We certify/confirm that we comply with the eligibility requirements as per **ITB** Clause 5 of the Bidding Documents.

We likewise certify/confirm that the undersigned, *[for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of Name of Bidder, has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the Name of Project of the Name of the Procuring Entity]* *[for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the Name of Bidder, to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for Name of Project of the Name of the Procuring Entity]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Dated this _____ day of _____ 20_____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

For Goods Offered From Abroad

Name of Bidder _____. Invitation to Bid³ Number _____. Page ____ of _____.

[illegible]

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

³ If ADB, JICA and WB funded projects, use IFB.

For Goods Offered From Within the Philippines

Name of Bidder _____. Invitation to Bid⁴ Number __. Page . of ____.

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and Insurance and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

⁴ If ADB, JICA and WB funded projects, use IFB.

Contract Agreement Form

THIS AGREEMENT made the ____ day of _____ 20____ between *[name of PROCURING ENTITY]* of the Philippines (hereinafter called “the Entity”) of the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called “the Supplier”) of the other part:

WHEREAS the Entity invited Bids for certain goods and ancillary services, viz., *[brief description of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Supplier’s Bid, including the Technical and Financial Proposals, and all other documents/statements submitted (*e.g.* bidder’s response to clarifications on the bid), including corrections to the bid resulting from the Procuring Entity’s bid evaluation;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract;
 - (f) the Performance Security; and
 - (g) the Entity’s Notice of Award.
3. In consideration of the payments to be made by the Entity to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Entity to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract
4. The Entity hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the time and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

Signed, sealed, delivered by _____ the _____ (for the Entity)

Signed, sealed, delivered by _____ the _____ (for the Supplier).

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. *Select one, delete the other:*

If a sole proprietorship: I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. *Select one, delete the other:*

If a sole proprietorship: As the owner and sole proprietor, or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached duly notarized Special Power of Attorney;

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. **Select one, delete the rest:**

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the following responsibilities as a Bidder:
- a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20___ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of *[month]* *[year]*.

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ *[date issued]*, *[place issued]*

IBP No. _____ *[date issued]*, *[place issued]*

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

* This form will not apply for WB funded projects.

Bank Guarantee Form for Advance Payment

To: *[name and address of PROCURING ENTITY]*
 [name of Contract]

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause 10 of the General Conditions of Contract to provide for advance payment, *[name and address of Supplier]* (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of *[amount of guarantee in figures and words]*.

We, the *[bank or financial institution]*, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding *[amount of guarantee in figures and words]*.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the PROCURING ENTITY and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[date]*.

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

BID SECURING DECLARATION FORM

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

X-----X

BID SECURING DECLARATION **Invitation to Bid:** *[Insert Reference number]*

To: *[Insert name and address of the Procuring Entity]*

I/We⁵, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - (b) I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - (c) I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

⁵ Select one and delete the other. Adopt the same instruction for similar terms throughout the document.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of
[month] [year] at [place of execution].

[Insert NAME OF BIDDER'S AUTHORIZED
REPRESENTATIVE]
[Insert Signatory's Legal Capacity]
Affiant

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place
of execution], Philippines. Affiant/s is/are personally known to me and was/were identified
by me through competent evidence of identity as defined in the 2004 Rules on Notarial
Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government
identification card used], with his/her photograph and signature appearing thereon, with no.
_____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

STATEMENT OF SINGLE LARGEST COMPLETED GOVERNMENT OR

**PRIVATE CONTRACTS, WHICH ARE SIMILAR IN NATURE AND COMPLEXITY TO
THE CONTRACT TO BE BID**

Business Name: _____

Business Address: _____

Name of Contract	a. Own Name b. Address c. Telephone Nos.	a. Date of the Contract	Kinds of Goods	a. Amount of Contracts	a. Date of Delivery
GOVERNMENT					
PRIVATE					

Note: This statement shall be supported with:

1. Notices of Award and/or Notices to Proceed/ Contract
2. Official Receipts issued for the contract
3. Certificate of Acceptance, if applicable

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____

**STATEMENT OF ALL ON-GOING GOVERNMENT & PRIVATE CONTRACTS,
INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED, IF ANY,
WHETHER SIMILAR OR NOT ARE SIMILAR IN NATURE AND COMPLEXITY TO
THE CONTRACT TO BE BID**

Business Name: _____

Business Address: _____

Name of Contract	a. Own Name b. Address c. Telephone Nos.	a. Date of the Contract	Kinds of Goods	Value of Outstanding Contracts	Expected Delivery Date
GOVERNMENT					
PRIVATE					

Note: This statement shall be supported by the Notices of Award and/or Notices to Proceed/Contract.

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____

STATEMENT OF NFCC COMPUTATION

Date: _____

The BAC Chairman
Metals Industry Research and Development Center

Contract to be Bid : _____

Contract to be Bid : _____

The undersigned duly authorized representative of the Bidder, for and in behalf of the Bidder hereby submits this statement of Net Financial Contracting Capacity (NFCC) in relation with the Application for Eligibility to Bid:

Current Assets ₱ _____

Less: Current Liabilities _____

Net Current Assets

Multiply by: 15 _____

Less: Value of On-going Contracts &
Awarded contracts yet started ₱ _____

NFCC ₱ _____

Name of Authorized Signatory

Signature

(Name of Bank)

COMMITTED LINE OF CREDIT CERTIFICATE

Date: _____

METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

Gen.Santos Avenue,
Bicutan, Taguig City

CONTRACT/PROJECT : _____
COMPANY/FIRM : _____
ADDRESS : _____
BANK/FINANCING INSTITUTION : _____
ADDRESS : _____
AMOUNT : _____

This is to certify that the above Bank/Financing Institution with business address indicated above, commits to provide the (Supplier/Distributor/Manufacturer/Contractor), if awarded the above-mentioned Contract, a credit line in the amount specified above which shall be exclusively used to finance the performance of the above-mentioned contract subject to our terms, conditions and requirements.

The credit line shall be available within fifteen (15) calendar days after receipt by the (Supplier/Distributor/Manufacturer/Contractor) of the Notice of Award and such line of credit shall be maintained until issuance of Certificate of Acceptance by MIRDC

This Certification is being issued in favor of said (Supplier/Distributor Manufacturer/ Contractor) in connection with the bidding requirement of METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER for the above-mentioned Contract. We are aware that any false statements issued by us make us liable for perjury.

This committed line of credit cannot be terminated or cancelled without the prior written approval of METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER.

Name and Signature of Authorized Financing Institution Office

Official Designation

Concurred By:

Name & Signature of (Supplier/Distributor/Manufacturer/Contractor's) Authorized Representative

Official Designation

SUBSCRIBED AND SWORN TO BEFORE ME this _____ day of _____ at _____, Philippines. Affiant exhibited to me his/her competent Evidence of Identity (as defined by the 2004 Rules on Notarial Practice _____ issued _____ at _____, Philippines.

NOTARY PUBLIC

Doc. No. : _____
Page No. : _____ Book No. : _____ Series of _____.

(Note: The Amount committed should be machine validated)

Republic of the Philippines



Government Procurement Policy Board