

**PROCUREMENT FOR INSTALLATION OF NETWORK AND INFORMATION
TECHNOLOGY INFRASTRUCTURE FOR DANGEROUS DRUGS BOARD –
MANAGEMENT INFORMATION SYSTEM UNIT**

ABC – Php10,000,000

Item	Specification	Comments
I. GENERAL REQUIREMENTS		
	1. The bidder must be a valid registered organization in existence for a minimum of ten (10) years	
	2. The bidder must have at least five (5) years of experience in the supply, delivery, installation, testing and commissioning of a DATACENTER, from the date of submission and receipt of bids. within the Government Sector	
	3. The bidder must have Philippine Contractors Accreditation Board (PCAB) license	
	4. The bidder must have at least one (1) employee with Certified Data Centre Professional (CDCP)	
	5. The bidder must have at least one (1) Construction Occupational Safety Health officer (COSH) certified by one accredited organization authorized by DOLE	
	6. The bidder must be an active member of the Safety Organization of the Philippines	
	7. The bidder must have at least one (1) Certified Network Administrator or Engineer	
	8. The bidder must have at least one (1) employee with Certified Cabling Installer (any brand)	
	9. The bidder must have Certified Cooling System Specialist or equivalent	
	10. The bidder must have manufactures certificate on all brands and solutions being offered	
	11. The bidder must have a completed Single Largest Contract of similar nature within the last 2 years amounting to at least fifty percent 50% of the ABC of the item being bid.	
	12. The bidder must be Platinum PhilGEPS accredited.	
II. TECHNICAL REQUIREMENTS		
DATA CENTER ELECTRICAL AND MECHANICAL WORKS	One (1) LOT	

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	<p>A. Electrical Labor & Materials FOR UPS Installation</p> <ol style="list-style-type: none">1. General Provisions<ol style="list-style-type: none">a. Mobilizationb. Housekeeping and adequate protection for completed worksc. Daily Disposal of Construction Debrisd. Preparation of construction/contract documents<ol style="list-style-type: none">i. Coordination (e-file/hard copy) plans, shop, drawingsii. Shop drawings, RFAs, RFIsiii. As-built drawings in hard bound (A3 & Blueprintiv. Operating and maintenance manuals (excluding equipment)e. Supervision and coordinationf. Contract close-out (processing and documentation)g. Service equipment, tools, vehicleh. Demobilization2. Electrical materials & works from Data Center to UPS System<ol style="list-style-type: none">a. Wire and Accessories<ol style="list-style-type: none">i. Phelps Dodge THHN Wire, Size: 30mm² (L)ii. Phelps Dodge THHN Wire, Size: 38mm² (N)iii. Phelps Dodge THHN Wire, Size: 8mm² (G)iv. 4 IEC 309 Wall Type Female, 32A, 230V, 3 Prongv. Royal Cord, Size: 5.5mm² x 3Corevi. Main Distribution Panel, Main<ol style="list-style-type: none">▪ 100AT, 400V 3phase, Branches: 24 x 32AT, 1P, 230V with neutral and ground bus bar▪ 5 Cable Tray, size: 6" x 6" x 2.4 mtr.▪ 6 Flexible Metal Conduit, Size: 1-1/2" dia.▪ 7 Flexible Metal Conduit Straight Connector, Size: 1-1/2" dia.▪ 8 10mm dia. Round bar complete fastened to slab by stud bolt and nut "Hilti" or equivalent.▪ 9 Malleable C-clamp complete with base fastened to slab by stud bolt and nut "Hilti" or equivalent.▪ 10 "Unistrut" trapeze hangers complete with 10mm dia. Round bars, fittings and accessories fastened to slab by stud bolt & nut "Hilti" or equivalent.	
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	<p>B. Electrical and Mechanical Works for the PACU Installation</p> <ol style="list-style-type: none">1. Mechanical Works Copper Pipe<ol style="list-style-type: none">a. 5/8" COPPER PIPE, TYPE Lb. 1/2" COPPER PIPE, TYPE L2. Copper Pipe Fittings<ol style="list-style-type: none">a. 1/2" dia. Elbow, Long radiusb. 5/8" dia., Elbow, Long radiusc. 5/8" dia. Couplingd. 1/2" dia. Coupling3. Refrigerant and Others<ol style="list-style-type: none">a. Refrigerant-r410ab. Nitrogen flushingc. Oxyethylened. Airconditioning pipe cleaninge. Systemf. Silver rodg. Silver fluxh. Welding rodi. Welding apron & glove4. Copper Pipe Insulation (Rubber)<ol style="list-style-type: none">a. 5/8" dia. X 25mm. Thk.b. 1/2" dia. X 25mm. Thk.c. Polyethylene Tape, Whited. Foam Tapee. Pipe Adhesive5. FCU Drainpipe<ol style="list-style-type: none">a. PVC Bule, 25 mm. diab. PVC Insulation, 25 mm. ldx 15mm. Thk.c. P-TRAP for FCUs6. Hanger and Support<ol style="list-style-type: none">a. Angular bar, 1-1/2" x 1-1/2" x 3/16" thk.b. Angular Br, 2-1/2" x 2-1/2" 1/4" thk.c. Full Threaded Round bard. Anchor gripe. Nuts w/ washers 3/8" dia.f. Signal cables #16 AWGg. 2. 1/2" emt pipeh. Painting Worksi. Miscellaneous/consumablesj. Supervisionk. Testing and commissioningl. Mobilization/demobilization	
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UNINTERRUPTIBLE POWER SUPPLY (UPS)	One (1) Unit	
	<p>A. UPS must have the following minimum requirements:</p> <ol style="list-style-type: none"> 1. Key Features <ol style="list-style-type: none"> a. Output power capacity 16.0kWatts /16.0kVA b. Rack Height 42U c. Nominal Output Voltage 230V, 400V 3PH d. Nominal Input Voltage 400V 3PH e. Input Connections Hard Wire 5-wire (3PH + N + G) f. Maximum Input Current 33.0A 2. Output <ol style="list-style-type: none"> a. Max Configurable Power (Watts) 48.0kWatts / 48.0kVA b. Output Voltage Note Configurable for 380: 400 or 415 V 3 Phase nominal output voltage Efficiency at Full Load 95.0 % c. Output Voltage Distortion Less than 2% d. Output Frequency (sync to mains) 50/60 Hz +/- 3 Hz user adjustable +/- 0.1 e. Output Frequency (not synced) 60Hz +/- 0.1% for 60Hz nominal, 50Hz +/- 0.1% for 50Hz nominal f. Other Output Voltages 380, 400, 415 g. Topology Double Conversion Online h. Waveform type Sine wave i. Overload Operation 10 minutes @ 125% and 60 seconds @ 150% j. Output Voltage THD < 2% for 0 to 100% linear load and < 6% for full nonlinear load k. Output Voltage Tolerance +/-1% static and +/- 5% at 100% load step l. Bypass Built-in Static Bypass 3. Input <ol style="list-style-type: none"> a. Input frequency 40 - 70 Hz b. Input voltage range for main operations 340 - 477V c. Efficiency at Full Load 95.0 % d. Input Total Harmonic Distortion Less than 5% for full load e. Type of Input Protection Required gL fuse f. Other Input Voltages 380, 400, 415 g. Maximum Short Circuit Withstand (Icw) 30.0kAmps h. Input Power Factor at Full Load 0.99 4. Batteries & Runtime <ol style="list-style-type: none"> a. Battery type VRLA b. Included Battery Modules 2 c. Typical recharge time 3hour(s) d. Nominal Battery Voltage +/-192 V (split battery referenced to neutral) 	

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	<ul style="list-style-type: none"> e. End of Discharge Maximum Battery Current 55.0A f. Battery Slots Empty 2 g. DC Overcurrent Protection 504A h. Battery Volt-Amp-Hour Capacity 6912 i. End of Discharge Battery Voltage +/-154 V j. Efficiency in Battery Operation 94.0 % k. Maximum Available Short Circuit Current 1kAmps l. Overload Operation m. 10 minutes @ 125% and 60 seconds @ 150% n. Runtime 15 minutes run time 5. Communications & Management <ul style="list-style-type: none"> a. Interface Port(s) DB-9 RS-232, SmartSlot b. Control panel Multi-function LCD status and control console c. Audible Alarm when on battery: distinctive low battery alarm: configurable delays d. Emergency Power Off (EPO) Yes 6. Physical <ul style="list-style-type: none"> a. Maximum Height 1991MM, 199.1CM b. Maximum Width 600MM, 60.0CM c. Maximum Depth 1070MM, 107.0CM d. Net Weight 537.0KG e. Color Black 7. Environmental <ul style="list-style-type: none"> a. Operating Temperature 0 - 40 °C b. Operating Relative Humidity 0 - 95 % c. Operating Elevation 0-999.9meters d. Storage Temperature -15 - 40 °C e. Storage Relative Humidity 0 - 95 % f. Storage Elevation 0-15000meters g. Audible noise at 1 meter from surface of unit 61.0dBA h. Online thermal dissipation 2573.0BTU/hr. i. Protection Class NEMA 1 8. Conformance <ul style="list-style-type: none"> a. Approvals EN 50091-1, EN/IEC 62040-1-1, EN/IEC 62040-2, EN/IEC 62040-3, Eurobat General Purpose, ISO 14001, ISO 9001, VFI-SS-111 b. Standard warranty One (1) year on-site repair or replace with factory authorized Start-Up 9. General <ul style="list-style-type: none"> a. Bypass Connection 5 wire (3PH + N + G) b. Bypass Protection Device 80.0 c. Max Bypass Input Current 80.0A 	
<p>PRECISION AIR CONDITIONING UNIT (PACU)</p>	<p>Two (2) Units</p>	

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	<p>A. PACU must have the following minimum requirements:</p> <ol style="list-style-type: none"> 1. Capacity 30,000 btu/hr. or 10kW per unit 2. Key Features <ol style="list-style-type: none"> a. Rack Height 42U b. Nominal Input Voltage 230V 3. Input <ol style="list-style-type: none"> a. Input frequency 60 Hz b. Input Power 4600.0 Watts c. Maximum Overcurrent Protection 40.0A d. Minimum Circuit Amp Capacity 25.0 4. Communications & Management <ol style="list-style-type: none"> a. Control panel Multi-function LCD status and control console b. Audible Alarm Audible and visible alarms prioritized by severity 5. Physical <ol style="list-style-type: none"> a. Maximum Height 1991MM, 199.1CM b. Maximum Width 300MM, 30.0CM c. Maximum Depth 1070MM, 107.0CM d. Net Weight 183.64KG e. Color Black 6. Environmental <ol style="list-style-type: none"> a. Audible noise at 1 meter from surface of unit 88.3dBA 7. Conformance <ol style="list-style-type: none"> a. Approvals cUL Listed, C-tick, CE, UL Listed 8. Standard warranty One (1) year (parts only), 1-year on-site repair 9. General <ol style="list-style-type: none"> a. Air Discharge Patterns Horizontal b. Air Flow 1080.76lps c. Compressor Type Scroll d. Condensate Pump Capacity 0.002lps e. Intake Air Rear Return 	
<p>FIRE SUPPRESSION SYSTEM</p>	<p>One (1) Lot</p>	
	<p>A. Clean extinguishing agent NOVEC fire suppression system</p> <ol style="list-style-type: none"> 1. SCOPE This specification outlines the requirements for a fire detection and total flooding NOVEC Clean Extinguishing Agent NOVEC Fire Suppression System. The work described in this specification consists of all labor, materials, and services necessary and required, to complete and test the fire detection and total flooding (NOVEC) Fire Suppression System 	

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	<p>2. REQUIREMENTS This installation shall be made in accordance with the drawings, specifications, and applicable National Fire Protection Association Standard 2001 and 72. All equipment and devices used shall conform to the requirements of the Underwriter’s Laboratories(UL) Approval List or the Factory Mutual(FM) Approval Guide and VDS approved.</p> <p>3. GENERAL</p> <ul style="list-style-type: none">a. The Contractor shall furnish and install a NOVEC Fire Suppression System complete and ready for operation, including charged storage containers, piping network, nozzles, control units, detectors, manual release stations, abort stations, audible and visual alarms, solenoid, instructional signs, 24 VDC wiring, and any and all other equipment necessary for a complete, operational systemb. The system shall be produced by manufacturer of established reputation and experience who shall have produced similar apparatus for a period of at least two (5) yearsc. The system shall be installed by FACTORY authorized personnel distributor in accordance with manufacturer's guidance, calculation and instruction in the installation of NOVEC Fire Suppression Systemsd. The installing contractor shall be authorized, with available spare parts from the manufacturer for the equipment included in the system so that immediate replacement of components can be made from inventory and, if needed, on an emergency basis. <p>4. SUBMITTALS</p> <ul style="list-style-type: none">a. The following shall be submitted for approval prior to the start of the installation:b. Drawings showing system and remote component locations, piping isometrics, electrical diagrams, elevations, and components detail.c. Manufacturer's data sheets on all components included in the systemd. Manufacturer's Training, Instructional Manuals for the installing Contractor's personnel assigned to install this system.e. As built drawings submitted for review and approval, prior to project completion. <p>5. SYSTEM DESCRIPTION AND OPERATION</p> <ul style="list-style-type: none">a. The system shall be a total flooding NOVEC Fire Suppression System designed to provide a concentration minimum 7% not exceed 9%@20 deg.c in the protected area.	
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	<ul style="list-style-type: none">i. Agent used shall be NOVEC™ HFC-227ea, heptafluoropropane (CF₃CHF₂CF₃)b. Each protected zone shall have its own NOVEC nozzle(s) with piping networks. Systems utilizing explosive initiators having limited shell life are not acceptable.c. The NOVEC shall be stored in containers and super pressurized with nitrogen up to 55 bar and at 70 degrees Fahrenheit. The containers shall be constructed of high strength alloy steel seamless(No Welding) cylinders of sizes 22L, 26.8L, 40L, 80L, 100L, 150L and 180Ltr or meeting the requirements of the Transportable Pressure Equipment Directive (TPED) for refillable pressure vessels, and must conform to NFPA 2001 standards. The container shall have a pressure gauge for visual inspection and shall be electrically supervised using a pressure switch and shall have low pressure switch that activates upon 10% pressure drop. The container shall be designed to safely vent over pressurization due to high temperaturesd. The NOVEC container shall be securely mounted to the structural frame. The mounting stainless-steel bracket which bands formed to the radius of cylinders with flange for bolting to continuous slot metal framing channel of 12-gauge steel with galvanized. Surface shall be capable of withstanding a load up to 5 times the cylinder weighte. Discharge of NOVEC agent shall be released by brass valve actuator that. mounts directly on the container head operated either electrically (Manual release agent and solenoid valve) or manually (local manual control)f. Cylinder valves shall be back pressure type valves. Operation by release Nitrogen from top of piston, actuate by solenoid valve or mechanical control<ul style="list-style-type: none">i. The electric solenoid valve shall be 24 VDC / 0.5 amps and 2 amps for cylinder valve size 3 inch up.g. NOVEC discharge nozzles shall be one-piece brass construction with female pipe threads and orifice sizes shall be drilled according to software calculationh. Distribution piping shall be Schedule 40 steel pipe, ASTM. A53, Grade A or B, ERW in sizes up to eight (8) inches. Fitting shall be threaded, 300 psi or PN25 malleable iron conforming to ASTM. A197 or BS 143 and ISO 49.i. All Piping must be reamed, blown clear, and swabbed with appropriate solvents to remove burrs, mill varnish, and cutting oil before assembly. The piping network shall be free of particulate matter and oil residue before	
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	<p>installation of nozzles. Teflon tape dope shall be used and shall be applied to male threads. All piping must be solidly anchored to walls, building structure, etc., for support and thrust block</p> <ul style="list-style-type: none"> j. NOVEC discharge time shall not exceed ten (10) seconds and not less than 6 seconds. k. All system functions shall be controlled and supervised by the Suppression Control Panel. l. Control equipment shall be design for FM 200 System and can adjust countdown timer 0 – 60 second. m. Photo electric smoke detector shall be used for automatic detection. The detector shall utilize solid state circuitry, infrared LED light source, and a silicon photo diode receiving element n. Photo electric smoke detector shall be used for automatic detection. The detector shall utilize solid state circuitry, infrared LED light source, and a silicon photo diode receiving element o. Abort or Hold switch shall be dead man type p. Alarm bell shall be used 24 VDC, 90-95 dBA at 1 meter. q. Strobe light and horn shall be used 0.068 amps at 24 VDC, r. If multiple cylinders are used to protect a hazard room, they must be stored in same location connected by pilot activation hoses. All cylinders must be activated by a single manual release during emergency where the cylinder valves are unable to be activated electrically due to malfunction of releasing panel. s. Remote Manual Release Station connected by mechanical wire must be installed outside a protected/cylinder storage room to facilitate emergency release remotely when electrical release devices fail. <p>6. SYSTEM INSTALLATION The NOVEC Fire Suppression System shall be installed in strict accordance with project drawings and specifications, all applicable codes and in a professional workmanlike manner. All system wiring shall be installed in accordance with National Electric Code.</p> <p>7. PRELIMINARY SYSTEM CHECKOUT After the installation is complete, the system shall be thoroughly checked for proper functioning, proper container and piping support, and proper ground, resistance, and detector sensitivity. Each circuit shall be functionally tested, including auxiliary circuits (HVAC shutdown, Shunt Trip power interruption, etc.)</p> <p>8. TRAINING REQUIREMENTS Prior to final acceptance, the contractor shall provide Operation Training for personnel selected by the Owner. Each training</p>	
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	<p>session shall include emergency procedures, abort functions, system control panel operation, trouble procedures, and safety requirements.</p> <p>9. OPERATION AND MAINTENANCE MANUALS Prior to final acceptance, the Contractor shall provide complete operation and maintenance instruction manuals to the Owner. All aspects of system operation and maintenance shall be detailed, including electrical schematics of all circuits, a written description of the system design, drawings illustrating equipment location, and technical bulletins describing each component.</p> <p>10. (NOVEC) SYSTEM SERVICE / MAINTENANCE The manufacturer shall provide a supplemental service / maintenance / inspections / training seminar proposal for providing certification for owner’s technical personnel.</p> <p>11. WARRANTY All NOVEC system components furnished under this contract shall be guaranteed against defective design, materials, and workmanship for the full warranty period which is standard with the manufacturer and/or supplier, but in no case less than one (1) year from the date of the system acceptance.</p>	
EQUIPMENT CABINET	Two (2) Units	
	<p>A. Equipment cabinet must have the following minimum requirements</p> <ol style="list-style-type: none"> 1. Physical <ol style="list-style-type: none"> a. Maximum Height 1991MM, 199.1CM b. Maximum Width 600MM, 60.0CM c. Maximum Depth 1070MM, 107.0CM d. Net Weight 125.09KG e. Color Black f. Maximum Mounting Depth 915.0MM, 91.49CM g. Minimum Mounting Depth 191.0MM, 19.1CM h. Front Door 16.0gauge i. Vertical Posts 16.0gauge j. Rear Door 18.0gauge k. Roof 18.0gauge l. Side Panels 18.0gauge m. Weight Capacity (static load) 1704.55KG n. Weight Capacity (dynamic load) 1022.73KG 2. Environmental <ol style="list-style-type: none"> a. Protection Class IP 20 3. Conformance <ol style="list-style-type: none"> a. Approvals UL 2416, UL 60950-1 4. Standard warranty <ol style="list-style-type: none"> a. 5-year repair or replace b. Sustainable Offer Status 	

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	<ul style="list-style-type: none"> 5. RoHS <ul style="list-style-type: none"> a. Compliant 6. REACH <ul style="list-style-type: none"> a. REACH: Contains No SVHCs 	
POWER DISTRIBUTION UNIT (PDU)	Four (4) Units	
	<p>A. PDU must have the following minimum requirements:</p> <ul style="list-style-type: none"> 1. Electrical <ul style="list-style-type: none"> a. Acceptable input voltage 220–240 VAC +6%, -10% b. Maximum input current (phase) 32 A VDE c. Input frequency 50/60 Hz d. Input connection 32 A, 3-pin IEC-309 e. Input power 7.4 kVA VDE f. Output voltage 220–240 VAC g. Maximum output current (outlet) IEC-320-C13: 10 A; IEC-320-C19: 16 A VDE h. Maximum output current (phase) 32 A VDE i. Maximum input current (bank) 16 A VDE j. Output connections Thirty-six (36) IEC-320-C13; six (6) IEC-320-C19 k. Overload protection (internal) Two (2) 16 A, 1-pole hydraulic-magnetic circuit breakers 2. Physical <ul style="list-style-type: none"> a. Dimensions (H x W x D) (depth does not include toolless pegs) 179.1 x 5.6 x 4.4 cm (70.5 x 2.2 x 1.7 in) b. Power cord length 3.0 m (10 ft) c. Shipping dimensions (H x W x D) 192.4 x 16.2 x 10.7 cm (75.8 x 6.4 x 4.2 in) d. Weight/shipping weight 6.7 kg (14.8 lb.) / 8.6 kg (19.0 lb.) 3. Environmental <ul style="list-style-type: none"> a. Maximum elevation (above MSL) b. Operating/Storage 0–3 000 m (0–10,000 ft) / 0–15 000 m (0–50,000 ft) 4. Temperature <ul style="list-style-type: none"> a. Operating/Storage –5 to 45°C (23 to 115°F) / –25 to 65°C (–13 to 149°F) 5. Humidity <ul style="list-style-type: none"> a. Operating/Storage 5–95% RH, non-condensing 6. Compliance <ul style="list-style-type: none"> a. EMC verification EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3 b. Safety verification VDE 	

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ENVIRONMENTAL APPLIANCE	One (1) Lot	
	<p>A. Temperature & humidity sensor / water leak detection system</p> <ol style="list-style-type: none"> 1. Specifications <ol style="list-style-type: none"> a. Built-in Access Control Ports b. Appliance includes integrated access control and door contact sensor ports c. Dual Rope Leak Inputs d. Dual rope leak sensor ports allow additional leak detection in two different directions e. Expansive Security and Monitoring f. Supports up to 78 wired sensors, 47 wireless sensors, access control for 26 rack doors, and 4 camera streams downstream of a single IP address g. HD Camera Support h. Supports the new HD, Low Light Camera Pod i. Rack Access Pod Support j. Supports up to 12 Rack Access Pod connected via daisy-chain k. Sensor Pod Support l. Supports up to 12 Sensor Pod connected via daisy-chain 2. Features <ol style="list-style-type: none"> a. Native wireless sensor support b. Manage up to 47 wireless temperature and temp/humidity sensors from a single appliance 3. Environmental <ol style="list-style-type: none"> a. Operating Temperature 0 - 40 °C b. Operating Relative Humidity 0 - 95 % c. Operating Elevation 0-3000meters d. Storage Temperature -15 - 65 °C e. Storage Relative Humidity 0 - 95 % f. Storage Elevation 0-15000meters 4. Conformance <ol style="list-style-type: none"> a. Approvals 2014/30/EU, AS/NZS 3548 (C-Tick) Class A, CE, CSA C22.2 No. 60950-1-03, EMC Directive 2004/108/EC, FCC Part 15 Class A, ICES-003, UL 60950-1, VCCI Class A 	
ACCESS CONTROL SYSTEM	One (1) Lot	
	<p>A. Security door access</p> <ol style="list-style-type: none"> 1. System Server <ol style="list-style-type: none"> a. Monitor, Mouse, Keyboard b. 1TB storage capacity c. 8GB RAM, 166 MHz; DDR4 d. 3.5GHZ Processing speed e. 2GB 128bit GDDr5 Video Card 	

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	<ol style="list-style-type: none"> 2. Door Access Management Software 3. Proximity or RFID Cards: 1,100 pcs 4. Uninterruptible Power Supply 5. Relative Components <ol style="list-style-type: none"> a. UTP Cables, Network, Switch, Data Cabinet and Patch Panel b. PVC pipes, moldings, junction boxes, pull boxes 6. Door Access Control <ol style="list-style-type: none"> a. Display : 2.4-inch TFT LCD Color Screen b. Fingerprint Capacity : 3,000 c. With Card Function d. Card Capacity : 5,000 e. Transaction Capacity : 30,000 f. Sensor : Optical Sensor g. Access Control Interface : 3rd party electric lock, door sensor, exit button, alarm, doorbell h. Power Supply : 12V DC, 3A i. Wiegand Signal : Input, Output, SRB 7. Central Management Dashboard <ol style="list-style-type: none"> a. Guarantee that only authorized individuals gain access to pre-determined locations b. Logs all door access c. Automatic notification for unauthenticated person in restricted areas 	
SURVEILLANCE SYSTEM		
	<p>A. Four (4) Units 4MP Fixed Dome Network Camera</p> <ol style="list-style-type: none"> 1. Features <ol style="list-style-type: none"> a. 1/2.5" Progressive Scan CMOS b. 2688 × 1520@30 fps c. 2.8, 4, 6 mm fixed lens d. H.265+, H.265, H.264+, H.264 e. 120dB WDR f. IR range: up to 40 m g. BLC/3D DNR/ROI/HLC h. IP67 i. Built-in micro SD/SDHC/SDXC card slot, up to 128 GB j. Color: 0.008 lux @ (F1.2, AGC ON), 0 lux with IR k. Color: 0.014 lux @ (F1.6, AGC ON), 0 lux with IR 2. Specifications <ol style="list-style-type: none"> a. Camera <ol style="list-style-type: none"> i. Image Sensor 1/2.5" Progressive Scan CMOS ii. Min. Illumination Color: 0.008 lux @ (F1.2, AGC ON), 0 lux with IR 	

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	<ul style="list-style-type: none"> iii. Color: 0.014 lux @ (F1.6, AGC ON), 0 lux with IR iv. Shutter Speed 1/3 s to 1/100,000 s v. Slow Shutter Yes b. Lens <ul style="list-style-type: none"> i. Focal Length 2.8, 4, 6 mm ii. Aperture F1.6 iii. Focus Fixed iv. FOV 2.8 mm, horizontal FOV: 109°, vertical FOV: 60°, diagonal FOV: 131°; 4 mm, horizontal FOV: 88°, vertical FOV: 46°, diagonal FOV: 105°; 6 mm, horizontal FOV: 53°, vertical FOV: 30°, diagonal FOV: 61° v. Lens Mount M12 c. IR <ul style="list-style-type: none"> i. IR Range Up to 40 m ii. Wavelength 850nm d. Compression Standard <ul style="list-style-type: none"> i. Video Compression <ul style="list-style-type: none"> • Mainstream: H.265/H.264 • Sub-stream: H.265/H.264/MJPEG • Third stream: H.265/H.264 ii. H.264 Type Main Profile/High Profile iii. H.264+ Mainstream supports iv. H.265 Type Main Profile v. H.265+ Mainstream supports vi. Video Bit Rate 32 Kbps to 16 Mbps e. Smart Feature Set <ul style="list-style-type: none"> i. Behavior Analysis Line crossing detection, intrusion detection, object removal detection, unattended baggage detection ii. Exception Detection Scene change detection iii. Face Detection Yes iv. Region of Interest Support 1 fixed region for mainstream and sub-stream f. Image <ul style="list-style-type: none"> i. Max. Resolution 2688 × 1520 ii. Mainstream <ul style="list-style-type: none"> • 50Hz: 25 fps (2688 × 1520, 2304 × 1296, 1920 × 1080) • 60Hz: 30 fps (2688 × 1520, 2304 × 1296, 1920 × 1080) iii. Sub-Stream <ul style="list-style-type: none"> • 50Hz: 25 fps (640 × 480, 640 × 360, 320 × 240) • 60Hz: 30 fps (640 × 480, 640 × 360, 320 × 240) iv. Third Stream 	
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	<ul style="list-style-type: none"> • 50Hz: 25 fps (1280 × 720, 640 × 360, 352 × 288) • 60Hz: 30 fps (1280 × 720, 640 × 360, 352 × 240) <ul style="list-style-type: none"> v. Image Enhancement BLC/3D DNR/HLC vi. Image Settings Rotate mode, saturation, brightness, contrast, sharpness, and white balance adjustable by client software or web browser vii. Target Cropping No viii. Day/Night Switch Day/Night/Auto/Schedule/Triggered by alarm in <p>g. Network</p> <ul style="list-style-type: none"> i. Network Storage Support micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS, SMB/CIFS), ANR ii. Alarm Trigger Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error iii. Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour iv. General Function One-key reset, anti-flicker, three streams, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter v. Firmware Version V5.5.60 vi. API ONVIF (PROFILE S, PROFILE G), ISAPI vii. Simultaneous Live View Up to 6 channels viii. User/Host Up to 32 users, 3 levels: Administrator, Operator and User ix. Client iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500 x. Web Browser IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+ <p>h. Interface</p> <ul style="list-style-type: none"> i. Video Output No ii. Audio 1 input (line in/mic.in), 1 output (line out), terminal block, mono sound iii. Alarm 1 input, 1 output (max. 12 VDC, 30 mA), terminal block iv. Communication Interface 1 RJ45 10M/100M self-adaptive Ethernet port v. On-board storage Built-in micro SD/SDHC/SDXC slot, up to 128 GB vi. Reset Button Yes <p>i. Audio</p>	
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	<ul style="list-style-type: none"> i. Environment Noise Filtering Yes ii. Audio Sampling Rate 8kHz/16 kHz/32 kHz/44.1 kHz/48 kHz iii. Audio Compression G.711/G.722.1/G.726/MP2L2/PCM iv. Audio Bit Rate 64Kbps (G.711)/16Kbps (G.722.1)/16Kbps (G.726)/32-192Kbps (MP2L2) j. General <ul style="list-style-type: none"> i. Operating Conditions -30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing) ii. Power Supply 12 VDC ± 25%, Φ 5.5 mm coaxial plug power PoE (802.3af, class 3) iii. Power Consumption and Current 12 VDC, 0.5 A, max. 5.5 W; PoE (802.3af, 36V to 57V), 0.2 A to 0.1 A, max. 7 W iv. Protection Level IP67, IK10 v. Material Camera body: metal, bubble: plastic vi. Dimensions Camera: Φ 111 × 82.4 mm (Φ 4.4" × 3.2"); Package: 134 × 134 × 108 mm (5.3" × 5.3" × 4.3") vii. Weight Camera: 500 g (1.1 lb.) <p>B. One (1) Unit Plug and Play Network Video Recorder (NVR)</p> <ul style="list-style-type: none"> 1. Features and Specifications <ul style="list-style-type: none"> a. Dual-OS design to ensure high reliability of system running b. ANR technology to enhance the storage reliability when the network is disconnected c. H.265/H.264/H.264+ video formats d. Connectable to the third-party network cameras e. 4 IP cameras can be connected f. Recording at up to 8 MP resolution g. Supports live view, storage, and playback of the connected camera at up to 8 MP resolution h. HDMI/VGA outputs provided i. HDMI Video output at up to 4K (3840 × 2160) resolution j. 1 SATA interfaces connectable for recording and backup k. Storage space effectively saved by 50% to 70% with the use of H.264+ decoding format l. 1 self-adaptive 10M/100Mbps network interface m. 4 independent PoE network interfaces are provided n. Centralized management of IP cameras, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc. o. VCA detection alarm is supported p. Instant playback for assigned channel during multi-channel display mode 	
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	q. Smart search for the selected area in the video; and smart playback to improve the playback efficiency	
STRUCTURED CABLING	One (1) Lot	
	<ol style="list-style-type: none"> 1. The contractor must supply, deliver and install various network equipment, cable and components for a two hundred (214) nodes following best practice. 2. Provision of 4 pair UTP cables from proposed location of workstations to proposed location of homerun point at Data Center. 3. Provision of Data/Voice outlets for 214 Nodes (subject for verification/confirmation by DDB) at proposed location of workstations. 4. Provision of Patch Panels (9 sets, for 214 Nodes) and corresponding Cable Managers 5. Testing, commissioning and Labeling of the Cabling System 	
INSTALLATION AND DEPLOYMENT SERVICE		
	<p>The CONTRACTOR must deliver the following equipment and services within forty-five (45) calendar days from receipt of notice to proceed (NTP):</p> <ol style="list-style-type: none"> 1. Data Center Electrical And Mechanical Works 2. Uninterruptible Power Supply (UPS) 3. Precision Air Conditioning Unit (PACU) 4. Fire Suppression System 5. Equipment Cabinet 6. Power Distribution Unit (PDU) 7. Environmental Appliance 8. Access Control System 9. Surveillance System 10. Structured Cabling System 	
III. TECHNOLOGY KNOWLEDGE TRANSFER		
	<ol style="list-style-type: none"> 1. The Contractor must provide training and certification for three (3) MISU Personnel for the Network Equipment. 2. The Contractor shall conduct training as Essential part of Technology Transfer to prepare and equip DDB MISU personnel in the overall operations and maintenance of its Network Infrastructure and IT Facility. 	

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	<ol style="list-style-type: none"> 3. The Contractor shall submit Program of Instruction (POI) detailing all the training activities to be conducted for review, evaluation and approval of DDB MISU. Hands-on training shall form part of the training program. 4. The Contractor shall provide Operation and Training manuals to each participant. 5. The Training shall be conducted and completed prior to the issuance of Certificate of Turnover and Acceptance. 6. All expenses related to training (e.g. venue, meals, equipment, certificate.) shall be borne by the contractor. 7. Venue of Training shall be determined by DDB MISU. 8. Certificate of Training/s shall be given by the contractor to all participants. 	
IV. PROVISION OF DOCUMENTATION		
	<ol style="list-style-type: none"> 1. The Contractor shall provide a complete documentation, one (1) soft copy and two (2) printed copies, for every deliverable and at every end of each milestone which must be submitted to the DDB for approval. DDB shall own all documents and shall reserve the right to reproduce at no additional cost. 2. The documentation must be written in English with concise and high-quality presentation to include but not limited to the following: <ol style="list-style-type: none"> a. Technical Manuals <ol style="list-style-type: none"> i. As built Document ii. Infrastructure Diagrams and Topology iii. Troubleshooting and Installation Guides iv. Single Line Diagram v. System/Operation Manual b. Operations and Maintenance Manuals 	
V. WARRANTY AND AFTER-SALES SUPPORT		
	<p>The CONTRACTOR shall guarantee one (1) year exclusive warranty on all installed materials and equipment against factory defects and workmanship. Warranty provision on upgrades and patches to be installed is free of charge during the warranty period. Conduct of an annual preventive maintenance during the warranty period for all the components of the solution. The CONTRACTOR shall be responsible for all costs related to the warranty period.</p>	
VI. CONFIDENTIALITY OF DATA		
	<ol style="list-style-type: none"> 1. The CONTRACTOR shall document detailed procedures/techniques in identifying systems security risks and breach (es) and how such shall be handled. 	

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	<ol style="list-style-type: none"> 2. All project staff of CONTRACTOR shall be required to sign a non-disclosure agreement. 3. The DDB system, its components, parts and all products, product samples and specifications, data, ideas, technology, and technical and non-technical materials, all or any of which may be derived from any of the foregoing (all of which, individually and collectively, referred to as “Proprietary Information”) are confidential and proprietary to the Dangerous Drugs Board. 4. The CONTRACTOR agrees to hold the Proprietary Information in strict confidence. CONTRACTOR furthermore agrees not to reproduce, transcribe, or disclose the Proprietary Information to third parties without prior written approval of the Dangerous Drugs Board. 5. To ensure the confidentiality of all information that will come to the knowledge of the CONTRACTOR and its employees detailed with the DDB, the CONTRACTOR and its employees assigned therein shall be considered agents of the DDB. The contract that will be executed hereto shall categorically provide that the CONTRACTOR and its employees, as agents of the DDB, shall uphold strict confidentiality of any information in compliance with RA 10173 otherwise known as “Data Privacy Act of 2012” 	
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VII. TERMS OF PAYMENT

	<ol style="list-style-type: none"> 1. Network and IT Infrastructure Facility– Thirty Five percent (35%) <ol style="list-style-type: none"> 1.1. All materials, equipment and labor necessary for the construction of the IT Infrastructure facility including all civil works, security access pass, air-conditioning unit and other accessories/appurtenances 1.2. Statement of Account/Sales Invoice/Billing Statements 1.3. Inspection and Acceptance Report issued by Inspection Committee and Acceptance Committee 1.4. Certificate of Acceptance and Operability issued by DDB. 2. Delivery of equipment and materials, structured cabling, fixing, installation of cables, conduit, outlets racks ladders, and other components (active components) – Thirty five percent (40%) <ol style="list-style-type: none"> 2.1. All materials to be used in the installation and cabling. Installed cables, conduit, and components and tested and working cable lines. 2.2. Statement of Account/Sales Invoice/Billing Statements 2.3. Inspection and Acceptance Report issued by Inspection Committee and Acceptance Committee 	
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	<p>2.4. Certificate of Acceptance and Operability issued by DDB.</p> <p>3. Training of Personnel – Twenty percent (15%)</p> <p>3.1. Training of DDB MISU personnel for the completed Network and IT Infrastructure Facility.</p> <p>3.2. Statement of Account/Sales Invoice/Billing Statements</p> <p>3.3. Certificate of Acceptance issued by DDB</p> <p>4. Project Documentation and Sign Off – Ten percent (10%)</p> <p>4.1. Statement of Account/Sales Invoice/Billing Statements</p> <p>4.2. Certificate of Acceptance issued by DDB</p>	
VIII. PRE-TERMINATION OF THE CONTRACT		
	<p>1. The contract for Supply, Delivery, And Installation of Network and Information Technology Infrastructure for Dangerous Drugs Board – Management Information System Unit may be pre-terminated by DDB for any violation of the terms of the contract. In case of pre-termination, the CONTRACTOR shall be informed by DDB thirty (30) days prior to such pre-termination.</p> <p>2. In case of pre-termination, the CONTRACTOR shall be liable to an additional liquidated damages equivalent to one percent (1%) of the contract price as provided for in the Government Accounting and Auditing Manual (GAAM) and forfeiture of the Performance Security.</p>	