

## **TERMS OF REFERENCE**

### **SUPPLY, DELIVERY AND INSTALLATION OF DATA CENTER FACILITY EQUIPMENT, CCTV WITH FACIAL RECOGNITION SURVEILLANCE SYSTEM AND SECURITY DOOR ACCESS SYSTEM FOR THE MARINA CENTRAL OFFICE**

#### **I. Background**

The Maritime Industry Authority (MARINA) is a government agency established pursuant to the Presidential Decree No. 474 and attached to the Department of Transportation (DOTr). In compliance with the Republic Act. No. 9184 known as the "Government Procurement Reform Act", the MARINA will be conducting a public bidding for the Supply, Delivery, and Installation of data center facility equipment, CCTV with facial recognition surveillance system and security door access system for the MARINA Central Office.

#### **II. Objective**

1. To procure data center facility equipment that will provide an environmental stability required by the electronic equipment.
2. To enhance security measures at the MARINA Central Office Building by providing secure door access, CCTV surveillance system with facial recognition for the safety and security of all clients, guests, and employees.

#### **III. Approved Budget for the Contract**

The Approved Budget of the Contract (ABC) is Twenty Million Pesos (PhP20,000,000.00), inclusive of VAT and other applicable government taxes to be charged against 2019 GAA.

#### **IV. MARINA Requirements**

In addition to the provisions of RA 9184 and its IRR, the following are the MARINA requirements.

1. The bidder/s must be continuously operating in the Philippines for the past (3) years;
2. The bidder must have an NFC at least 50% of the ABC;
3. The bidders must have no pending case(s) against the government.

#### **V. Deliverables**

1. Data center facility equipment; one (1) Precision Air-conditioning unit, one (1) temperature and humidity sensor, and one (1) fire suppression system to be installed at Server room (9<sup>th</sup> floor)
2. Twenty-six (26) CCTV with Facial Recognition System
  - Two (2) IP cameras per floor, Twelve (12) floors
  - Two (2) IP cameras for parking area
3. Door Access Control System
  - Forty-nine (49) Door Access

Office of the Administrator, ODAO, ODAP, MFAS Director, PPS Director, LS Director, MISS Director, FS Director, DSS Director, OSS Director, ES Director, MSS Director, SRS Director, MDS

Director, STWC Executive Director, STWC Deputy Executive Director, COA, Glass Double-door/Lobby, Glass Double-door, MDS, Glass Double-door/STCW/3<sup>rd</sup> Floor, Glass Double-door/Board Room, Deck Engine Examination Room, GMDSS Radio Operators Examination Room, Examination and Assessment Division, Certification Room, Board of Examiner Door1, Board of Examiner Door2, Glass Door/STCW/5<sup>th</sup> Floor, Administrative/Financial Division/ STCW/5<sup>th</sup> Floor, Glass Double-Door/Hallway 6<sup>th</sup> Floor, STCW RDD, STCW METTS, Glass Double-Door1/Hallway 7<sup>th</sup> Floor, Glass Double-Door2/Hallway 7<sup>th</sup> Floor, FS, DSS, Hallway Glass Door/8<sup>th</sup>, OSS, MSS/SRS, Glass Double-Door/Hallway 9<sup>th</sup> Floor, PPS/LS/MISS, Glass Double-door/MFAS, Internal Audit Division, Glass Door1/OADM, Glass Door2/OADM, Glass Double-Door3/OADM, Glass Double-door/12<sup>th</sup>, ES

- Centralized door access control management system

## VI. Technical Specifications

### 1. DATA CENTER FACILITY EQUIPMENT

#### a) PRECISION AIR-CONDITIONING UNIT (PACU)

##### ➤ Description:

- One (1) unit, Minimum 52,000 BTU/hr capacity
- Free Blow
- Free Electronics Controlled (EC) Plug-Fans Inverter
- Compressor, Scroll Type
- Air-cooled Direct Expansion

##### ➤ Relative Components

1. Fan Speed Control
2. Efficiency Filter
3. Condensing and Humidifier drain pump
4. Outside Condensing unit
5. Cable trays, EMT pipes, connectors, junction boxes, hangers and support

##### ➤ Labor

Installation of related mechanical and electrical components. Installation of electrical panels, breakers, lugs, wires, and roughing-in materials for electrical supply tapping from nearest source going to indoor and outdoor unit location. Lifting positioning, rigging, testing and commissioning.

##### ➤ Others

All other item needed or required to make the PACU operational including all importation taxes, customs brokerage fees, arrester, doc stamps, sea freight, land freight, hauling, rigging, stripping, marine and fire insurance and bank charges.

## **b) FIRE SUPPRESSION SYSTEM**

### ➤ **Description:**

- One (1) FM200 assembly tank to be filled with FM-200 agent (HFC227ea)

### ➤ **Relative Components:**

1. Electric Control Head, 24 VDC
2. Valve Outlet Adapter
3. 360 deg. Discharge nozzle
4. Single Hazard releasing control panel
5. Backup battery, 12VDC, 7AH
6. Smoke Detector Photoelectric
7. Standard smoke detector base two wire
8. Manual release station
9. Abort Toggle switch station
10. 6" Diameter Fire Alarm Bell
11. Horn Strobe
12. Nameplate "Warning"

### ➤ **Labor**

Supply and installation of the electrical conduits, boxes, fitting, wires and anchors and necessary materials including releasing panel and other field devices. Roughing-ins wiring.

Fabrication of FM-200 cylinder tank brackets. FM-200 manifold piping system.

Supply and installation of fittings, BI pipe schedule 40 seamless, pipe brackets and hanger. Supply and installation of FM-200 cylinder and discharge nozzles.

Painting of pipes, brackets and hangers

## **c) Temperature and Humidity Sensor**

- Internet of Things (IoT) technology
- One (1) unit Temperature and Humidity sensor
- Base Unit: Sensor Gateway / 2 external probes
- 8-port power over Ethernet (POE) switch

## **2. CCTV WITH FACIAL RECOGNITION SURVEILLANCE SYSTEM**

- System Server
  - Monitor, Mouse, Keyboard
  - Intel i9 processor
  - RTX 2080Ti 11Gb video card
  - 32Gb DDR4 memory
  - 512SSD + 2Tb storage
- IP Camera
  - Up to 3 mega pixel high resolution
  - Max. 2048 x 1536 @ 30 fps
  - 2.8 mm/4 mm/6 mm/8 mm/12 fixed lens

- H.265, H.265+, H.264, H.264+ support
- RTSP and RTMP support
- IR range up to 30m
- Support on-board storage up to 128GB
- IP67, IK10
- Automated Threat Recognition Capability
  - Instantly identify known threats with face recognition
  - Recognize people from your blacklist and notify security to take action to reduce risks.
  - Recognize whitelist customers so they can experience exclusive VIP service from the moment they arrive.
  - Recognizes fire and smoke
  - Facial expression analysis
  - Recognize visible firearms
- Centralized management dashboard
  - Displays summary of blacklisted and whitelisted persons
  - Displays facial images of captured blacklisted facial images
  - Logs and history of subject movements
  - Web-enable central management system
- Support for Video management System (VMS) or Video streaming server
- Supply and installation of the electrical conduits, boxes, fitting, wires and brackets and all necessary materials including roughing-ins and wiring.

### 3. SECURITY DOOR ACCESS

- System Server
  - ~ Monitor, Mouse, Keyboard
  - ~ 1 TB storage capacity
  - ~ 8GB RAM, 166 Mhz; DDR4
  - ~ 3.5 GHZ Processing speed
  - ~ 2GB 128bit GDDR5 video card
- Door Access Management Software
- Proximity Cards: 1,100
- Relative Components
  - ~ UTP Cables, Network, Switch, Data Cabinet and Patch Panel
  - ~ PVC pipes, mouldings, junction boxes, pull boxes

#### a. Door Access Control

- Display : 2.4-inch TFT LCD Color Screen
- Fingerprint Capacity : 3,000
- With Card function
- Card Capacity : 5,000
- Transaction Capacity : 30,000
- Sensor : Optical Sensor
- Access Control Interface : 3<sup>rd</sup> party electric lock, door sensor, exit button, alarm, doorbell
- Power Supply : 12V DC, 3A
- Wiegand Signal : Input, Output, SRB

**b. Central Management Dashboard**

- Central management dashboard
- Guarantee that only authorized individuals gain access to pre-determined locations
- Logs all door access
- Automatic notification for unauthenticated person in restricted areas

**VII. Delivery Schedule**

1. Seventy-five (75) days upon receipt of the Notice to Proceed (NTP)
2. Deliveries should be made within office hours and on regular working days on or before the stipulated date in the contract unless otherwise specified for valid reason why the same cannot be complied with;
3. MARINA shall impose penalty of 1/10 of 1% of the total value of the undelivered order for each day of delay as liquidated damages after the specified allowable number of days of deliver the units.