

## **TERMS OF REFERENCE**

### **SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF COMPUTER HARDWARE FOR UNIFIED SEAFARER INFORMATION AND MANAGEMENT SYSTEM**

#### **I. BACKGROUND**

The Maritime Industry Authority (MARINA) was created on 01 June 1974 as an attached Agency to the Office of the President (OP) with the issuance of Presidential Decree No. 474, otherwise known as the Maritime Industry Decree of 1974, to integrate the development, promotion and regulation of the maritime industry in the country and the creation of the Ministry (now Department) of Transportation (DOTr) by virtue of Executive Order No. 546, the MARINA was attached to the DOTr for policy and program coordination on 23 July 1979. By virtue of Republic Act No. 10635, the Maritime Industry Authority (MARINA) is established as the "Single Maritime Administration" responsible for the implementation and enforcement of the 1978 International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, as amended, and International Agreements or Covenants related thereto.

#### **II. OBJECTIVE**

The following are the objectives of the project:

1. To upgrade the capability of Computer Hardware and I.T. related equipment of the Maritime Industry Authority-STCW Office
2. To support new platform and systems to be implemented by the MARINA as part of its computerization.

#### **III. APPROVED BUDGET FOR THE CONTRACT**

The Approved Budget for the Contract (ABC) for the project is **TEN MILLION FOUR HUNDRED NINETY FOUR THOUSAND PESOS (P10,494,000.00)** General Appropriations Act of 2018 Capital Outlay and MOOE inclusive of all applicable government taxes and charges.

#### **IV. BIDDER'S QUALIFICATIONS**

1. Bidders must have its ongoing government and or private contracts within the last three (3) years, including contracts awarded but not yet started, if any whether similar or not similar in nature.
2. Bidders must have completed a similar contract/project equivalent to fifty percent (50%) of the ABC within three (3) years from the date of submission and receipt of bids.
3. The Bidder should have been operating in the Philippines for at least three (3) years and is registered with SEC or DTI.
4. The bidders must submit, in addition to the bidding documents and in a separate envelope, A CERTIFICATION, UNDER OATH, CERTIFYING THAT THEY HAVE NO PENDING CASE(S) AGAINST THE GOVERNMENT.

## V. DELIVERABLES

NO.	PARTICULARS	QTY	UNIT
1	Server	3	Units
2	Desktop Computer	70	Units
3	Laser Printer	20	Units
4	Rack (Data) Cabinet	1	Unit
5	Biometric Reader	250	Units
6	Signature Pad	80	Units
7	Web Camera	80	Units

## VI. TECHNICAL SPECIFICATIONS

### 1. SERVER

- 1.1. Form Factor - 1U Rack /2S
- 1.2. Processor - Intel Xeon E5-2620 v3 2.4GHz,15M Cache,8.00GT/s QPI, Turbo, 1.3 HT, 6C/12T (85W) Max Mem
- 1.4 Memory / Max - 4 x 16GB RDIMM, 2133MT/s, Dual Rank, x8 Data Width (8/12 max DIMM slots)
- 1.5 HD Capacity - 6 x 500GB 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive (max 8 HDD)
- 1.6 Optical - DVD+/-RW SATA Internal
- 1.7 RAID - PERC H730P Integrated RAID Controller, 2GB Cache
- 1.8 Onboard NICs - On-Board LOM 1GBE (Quad Port)
- 1.9 Power Supplies - Single, Hot-plug Power Supply (1+0), 550W
- 1.10 Static Rail - Ready Rails, Sliding Rails With Cable Management Arm
- 1.11 Keyboard - USB Keyboard
- 1.12 Mouse - USB Optical Mouse
- 1.13 Warranty - Three (3) years next Business Day On Site
- 1.14 OS – Latest Windows Server
- 1.15 Other Requirements - Two (2) KVA UPS
  - 1.15.a Backup time of at least 9 minutes at full load Load capacity of 2000VA 1800Watts
  - 1.15.b Auto self testing system
  - 1.15.c Communication: USB/SNMP
  - 1.15.d On-Line UPS System
  - 1.15.e Input and Output Voltage at 230 VAC with 60Hz
  - 1.16.f No Load Shutdown
  - 1.16.g Related cables and accessories
  - 1.17.h Comes complete with sealed free-maintenance batteries
  - 1.15.j UPS battery must have at least 1-year warranty
  - 1.15.k User Interface: LCD with audible alarm
  - 1.15.l Outlet Receptacle: 8 IEC C13 Outlets

## **2. DESKTOP**

- 2.1. Intel Core i7 Atleast 3.6GHz, Atleast 7th Gen
- 2.2. Intel B250 Express Chipset
- 2.3. 4GB DDR4 2400 up to 32GB (8gb per Dimm)
- 2.4. 1TB SATA3 HDD
- 2.5. DvD-Super multi drive
- 2.6 Intel HD Graphics 630
- 2.7 Integrated high-definition, 5.1-channel surround sound
- 2.8 LAN: Gigabit Ethernet
- 2.9 IO/Ports : 2 x USB 3.0, 4 x USB 2.0, mic (stereo, 3.5mm), headphone (stereo, 3.5mm) Ethernet (RJ-45), VGA, HDMI, Line-in, line-out, mic-in
- 2.10 Display : Atleast 23" LED Monitor
- 2.11 Uninterrupted Power Supply (1 KVA)
- 2.12 Pre-loaded with
  - Operating System - Windows 10 SL 64-bit
  - Latest Licensed MS office (Word,Excel,Powerpoint)
  - Anti-Virus (Two (2) Years Subscription)

## **3. PRINTER**

- 3.1 Printing Technology - Laser
- 3.2 Maximum Resolution - 2400 x 600 dpi
- 3.3 Print Speed - Simplex: 33 ppm, Duplex: 7 ppm
- 3.4 First Print Out Speed - 15 seconds
- 3.5 Printing –Duplex Printing Capable
- 3.6 Duty Cycle - Monthly: 60,000 pages
- 3.7 Paper Handling - Input Tray 1, Multipurpose Tray, Output Tray
- 3.8 Paper Capacity - Input Tray 1: 250 sheets, Multipurpose Tray: 50 sheets and Output Tray: 150 sheets
- 3.9 Interface - USB 2.0, Ethernet, Wi-Fi and NFC
- 3.10 Processor - 800 MHz
- 3.11 Memory - 512 MB
- 3.12 Compatible Operating Systems – Windows, Mac OS X, macOS and Linux
- 3.13 Control Panel - 2.7" / 6.75 cm touchscreen LCD
- 3.14 Power Requirements - 110-120 VAC, 50/60 Hz

## **4. RACK (DATA) CABINET**

- 4.1 42 U Height
- 4.2 Must have removable tail-bars at both top and bottom of the rear of the rack
- 4.3 Can Accommodate four full height PDU's at rear of rack
- 4.4 Tool less PDU Mounting kit
- 4.5 Must include the 1U KVM Console with 18.5" LED Display
- 4.6 Must Include the PDU to support all the Devices (Server, Storage, Switches)

## 5. FINGER PRINT BIOMETRIC CAPTURING

- 5.1 Image Resolution: 500 DPI
- 5.2 Image Size: 300 x 400 pixels
- 5.3 Platen Size: 18.2 mm x 22.9 mm
- 5.4 Effective Sensing Area: 15.24 mm x 20.32 mm
- 5.5 Fingerprint Capture Speed: 0.2 ~ 0.5 second with Smart Capture™
- 5.6 Operating Temperature: -20° ~ 65°C
- 5.7 Operating Humidity: 90% or less RH, noncondensing
- 5.8 Dimensions / Weight: 58.5 x 53.9 x 31.6 mm / 98 g
- 5.9 Supply Voltage / Max. Current: 5 V DC / 150 mA
- 5.10 Interface: USB 1.1 Full-Speed, USB 2.0 Hi-Speed
- 5.11 Water-Resistance / Dust-Resistance: IP65 rated
- 5.12 Supported Standards: FIPS 201 (PIV-071006), INCITS 378, ISO/IEC 19794-2, ISO/IEC 19794-4, Mobile ID FAP 20, NIST SP 800-76
- 5.13 Certifications: FCC, CE, KCC, RoHS, FBI PIV, GSA FIPS 201 APL, STQC

## 6. SIGNATURE PAD

- 6.1 LCD Screen
  - 6.1.1 Display Type: F-STN Positive Reflective
  - 6.1.2 Screen: Diagonal 50096.0 x 60.0 mm (4.5 inch - 3.77 x 2.36 inch) or better
  - 6.1.3 Resolution: 320 x 200 pixels
- 6.2 Pad and Pen
  - 6.2.1 Technology: Electromagnetic Resonance (EMR) or better
  - 6.2.2 Active Area: 95.98 x 59.98mm, 3.77 x 2.36 inch or Manufacturer standard size
  - 6.2.3 Resolution: 2540 lpi (non-interpolated)
  - 6.2.4 Communication Interface: USB
  - 6.2.5 Pen: Active EMR Pen
  - 6.2.6 Pen tether Opening: Yes
  - 6.2.6 Connectivity: USB Cable Locking System
  - 6.2.7 Installer: Installer provided

## 7. WEB-CAMERA

- 7.1 Image Sensor: 1/4" CMOS, 640x480pixels
- 7.4 Frame Rate: 30fps@640x480, @600x800, @320x240, @160x120
- 7.5 Lens F=2.4,f=4.9mm
- 7.6 View Angle: 54 degree
- 7.7 Focus Range: Automatic focus, 30cm to infinity
- 7.8 Exposure Control: Automatic
  - 7.8.1 White Balance: Automatic
  - 7.8.2 Still Image Capture Res.: 1280X960,600x800, 640X480, 352x288, 320x240, 160x120
  - 7.8.3 Microphone for WebCam Built in Microphone
  - 7.8.4 Flicker Control: 50Hz, 60Hz and None
  - 7.8.5 Computer Port USB port

## **VIII. OTHER REQUIREMENTS**

### **A. WARRANTY AND AFTER-SALES SUPPORT**

1. One (1) year on parts, labor
2. On-site support shall be provided for the delivered within twenty-four (24) hours from verbal/written notification by the END-USER AGENCY, with cut-off time at 2:00 pm per working day. Verbal/ written notifications received after 2:00 pm will be addressed by suppliers the following working day.
3. Within the warranty period, machines that cannot be repaired within twenty-four (24) hours shall be immediately replaced with a service unit of similar specifications or better.
4. Provide service unit, which is equivalent to or higher than the defective unit, in case of pull-out, at no cost to the MARINA.

### **B. TRANSFER OF TECHNOLOGY**

1. The bidder must provide a comprehensive training program to qualified staff/employee of the Maritime Industry Authority (MARINA) in installation, configuration, administration of all of the deliverables.
2. Appropriate manuals (e.g. Equipment, User, Operational Manuals...etc) shall be provided to each participant and written in a very simple manner that everybody can understand.
3. Training and Technology Transfer should be conducted before final project acceptance.

### **C. RESPONSIBILITY OF THE BIDDER**

1. All installation and configuration must be done inside the MARINA premises. The bidder shall Format hard disk in the manner of 40% for the system disk and 60% data disk;
2. The bidder must submit original brochure of all deliverables.

## **XII. PROJECT TIMEFRAME**

- The project shall be completed within a period of Sixty (60) days upon receipt of the Notice to Proceed.

## **XIII. TERMS OF PAYMENT**

Payment shall be made within fifteen (15) working days upon issuance of Final Acceptance.