

**TERMS OF REFERENCE
SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF HARDWARE
REQUIREMENTS FOR THE QBANK AND MARINA COMPETENCY
ASSESSMENT SYSTEM (MCAS)**

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 International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended, and International Agreements or Covenants related thereto.

Considering the implementation of the assessment of competence under STCW Circular Nos. 2018-08 and 2018-09, computer hardware and I.T.-related equipment are needed at the MARINA-STCW Office Examination Room for Merchant Marine Officers.

II. OBJECTIVES

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; and
2. To support the new platform and systems to be implemented by the MARINA through the MARINA Competency Assessment System (MCAS).

III. APPROVED BUDGET FOR THE CONTRACT

The Approved Budget for the Contract (ABC) for the Project is **Four Million Pesos (Php4,000,000.00)** from the General Appropriations Act of 2019 Capital Outlay inclusive of all applicable government taxes and charges.

IV. MARINA Requirements

In addition to the provisions of the Revised IRR of RA 9184, the following are the MARINA requirements:

1. Bidders must have completed a similar contract/project equivalent to fifty percent (50%) of the ABC within two (2) years from the date of submission and receipt of bids;
 2. Completed at least three (3) similar projects in supply, delivery and installation of computer hardware, within the last three (3) years. This should be vouched by a Certificate of Acceptance issued by the end-user;
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3. The Bidders should have been operating in the Philippines for at least five (5) years and is registered with SEC or DTI; and
4. The Bidders must have no pending case(s) against the government.

V. DELIVERABLES

NO.	PARTICULARS	QTY	UNIT
1	Server	4	Units
2	Desktop Computer	62	Units
3	Firewall	1	Unit

VI. TECHNICAL SPECIFICATIONS

1. SERVER (QBank)

- 1.1 Form Factor - 1U Rack /2S
- 1.2 Processor - Intel® Xeon® processor E5-2600 v4 or Equivalent
 Processor sockets: 2
 Chipset: C610
 Internal interconnect: Up to 9.6GT/s
 Cache: 2.5MB per core
- 1.3 Memory / Max - 2 x 16GB RDIMM, 2133MT/s, Dual Rank, x8 Data Width (8/12 max DIMM slots)
- 1.4 HD Capacity - 4 x 500GB 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive (max 8 HDD)
- 1.5 Optical - DVD+/-RW SATA Internal
- 1.6 RAID - 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 Uninterrupted Power Supply
 - Backup time of at least 9 minutes at full load Load capacity of 2000VA
 - Communication: USB/SNMP
 - On-Line UPS System
 - Input and Output Voltage at 230 VAC with 60Hz
 - UPS battery must have at least 1-year warranty
 - User Interface: LCD with audible alarm
 - Outlet Receptacle: 8 IEC C13 Outlets

2. DESKTOP

- 2.1. 7th Generation Intel® Core i3-7130U Processor (3M Cache, 2.70 GHz)
- 2.3. 1TB 5400 rpm SATA
- 2.4. 1TB SATA3 HDD
- 2.5. Wired keyboard & mouse

- 2.6 Intel Graphics
- 2.7 Integrated high-definition, 5.1-channel surround sound
- 2.8 LAN: Gigabit Ethernet
- 2.9 Integrated Widescreen HD 720P pop-up Webcam with Single digital microphone
- 2.10 IO/Ports : 1 USB 2.0, 3 USB 3.1 Gen 1, 1 Universal Audio Jack, 1 RJ-45, 10/100/1000 Ethernet, 1 DC power, 1 HDMI-out
- 2.11 Display : 21.5"
- 2.12 Uninterrupted Power Supply (500 VA)
- 2.13 Pre-loaded with Operating System - Windows 10 SL 64-bit

3. FIREWALL

- 3.1 1000 base platform, Next generation multi-function firewall with application control NAT, IPv6, HA and Web GUI management S/W 1Gbps UTP x 6 ports, built-in, configurable (Max 4 ports for bypass) 1Gbps Fiber x 2 ports, built-in, configurable
- 3.2 Anti-malware protection, Application filtering , ASIC VPN , DMZ port , Firewall protection , Intrusion Prevention System (IPS) , URL filtering , VPN support , Wall mountable , Web threat protection
- 3.3 8x5 tech support; 24x7 phone. Email and onsite support
- 3.4 Warranty and support: 1 year

VII. 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 MARINA, 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

- The bidder must provide a comprehensive training program to qualified staff/employee of the MARINA in installation, configuration, administration of all of the deliverables.
- 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.
- Training and technology transfer should be conducted before final project acceptance.

C. RESPONSIBILITY OF THE BIDDER

- 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;
- The bidder must submit original brochure of all deliverables to MARINA authorized representative.

VIII. PROJECT TIMEFRAME

- The project shall be completed within a period of forty-five (45) calendar days upon receipt of the Notice to Proceed.

IX. INSPECTION AND ACCEPTANCE

- After sales service and support during the warranty period, all reported defects shall be completely/satisfactorily repaired/replaced by the winning supplier; and
- The MARINA shall have the right to reject and return the unit(s) and cancel the corresponding contract if units delivered are defective, incomplete or non-compliant to the specifications herein specified.

X. PAYMENT TERMS

- Payment shall be made fifteen (15) calendar days after inspection and acceptance by the MARINA.