

TERMS OF REFERENCE

SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF COMPUTER HARDWARE FOR VARIOUS MARINA INFORMATION 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.
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 **SEVEN MILLION NINE HUNDRED TWENTY THOUSAND PESOS (P7,927,000.00)** sourced from the 2019 Capital Outlay per the National Expenditure Program (NEP), inclusive of all applicable government taxes and charges.

IV. VENDOR'S QUALIFICATIONS

1. The 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. The bidders must have completed at least three (3) similar projects in the supply, delivery and installation of computer hardware, within the last three (3) years and should be vouched by a Certificate of Acceptance.
3. The bidders 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	63	Units
3	Laser Printer	40	Units
4	Rack (Data) Cabinet	1	Unit
5	Network Attached Storage	2	Units

VI. TECHNICAL SPECIFICATIONS

1. SERVER

- 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 DIMMslots)
- 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 SATAInternal
- 1.6 RAID - Integrated RAID Controller, 2GBCache
- 1.8 Onboard NICs - On-Board LOM 1GBE (QuadPort)
- 1.9 Power Supplies - Single, Hot-plug Power Supply (1+0),550W
- 1.10 Static Rail - Ready Rails, Sliding Rails with Cable ManagementArm

- 1.11 Keyboard - USBKeyboard
- 1.12 Mouse - USB OpticalMouse
- 1.13 - Three (3) years next Business Day OnSite
- 1.14 OS –Latest WindowsServer
- 1.15 Uninterrupted Power Supply
 - 1.4.a Backup time of at least 9 minutes at full load Load capacityof 2000VA
 - 1.4.b Communication:USB/SNMP
 - 1.4.c On-Line UPSSystem
 - 1.4.d Input and Output Voltage at 230 VAC with60Hz
 - 1.15.j UPS battery must have at least 1-yearwarranty
 - 1.15.k User Interface: LCD with audiblealarm
 - 1.15.l Outlet Receptacle: 8 IEC C13Outlets

2. DESKTOP

- 2.1. Intel Core i7 Atleast 7thGen
- 2.2. 6 cores, 12MB, 12T, up to 4.6Ghz, 65w
- 2.3. 8GB (2x4GB), DDR4
- 2.4. 1TB SATA3HDD
- 2.5. DvD-Super multidrive
- 2.6 Intel HD Graphics
- 2.7 Internal Speakers
- 2.8 Integrated high-definition surroundsound
- 2.9 LAN: GigabitEthernet
- 2.10 IO/Ports :
 - 3 x USB 2.0
 - 2 x USB 3.0
 - HDMI-out
 - HDMI-in
 - 3-in-1 card reader (SD, SDHC, SDXC)
 - 10/100/1000 LAN
 - audio/microphone jack
- 2.11 Display : Atleast 23" LEDMonitor

- 2.12 Uninterrupted Power Supply (650 VA)
- 2.13 Pre-loaded with
Operating System - Windows 10 pro 64 bit
Latest Licensed MS office Word, Excel,
Powerpoint)
Anti-Virus (Two (2) Years Subscription)

3. LASER 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. STORAGE (NAS)

- 5.1 14 nm Intel® Celeron® N3150/N3160 1.6 GHz quad-core processor
- 5.2 Hardware Encryption: (AES-NI)
- 5.3 Supports Floating Point Unit
- 5.4 8th generation Intel HD Graphics
- 5.5 TS-453A-4G: 4GB (2 x 2GB)
- 5.6 TS-453A-8G: 8GB (2 x 4GB)
- 5.7 8 GB
- 5.8 2, SODIMM DDR3L-1600 (*For dual-DIMM configurations, you must use a pair of identical DDR3L modules.)
- 5.9 Flash Memory: **512Mb**
- 5.10 Capacity: **8 Tb**
- 5.11 Number of Hard Drives: **4**
- 5.12 Supported disk types: Hot-swappable 3.5" or 2.5" SATA 6Gb/s, SATA 3Gb/s hard drive or SSD
- 5.13 4 x Gigabit RJ-45 Ethernet port
- 5.14 4 x USB 3.0 port (Front:1, Rear:3)
- 5.15 Support USB printer, pen drive, and USB UPS etc.
- 5.16 2 x HDMI, up to 4K 2160P 30Hz Ultra HD support
- 5.17 2 x 6.3mm microphone jacks (dynamic microphones only)
- 5.18 Line Out Jack (for amplifier or headphone amplifier)
- 5.19 Status, USB, HDD 1-4
- 5.20 Mono-LCD display with backlight
- 5.21 System: Power button, USB one-touch-backup button, Reset button

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 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 forty eight (48) hours shall be immediately replaced with a service unit of similar specifications or better at no cost to the MARINA

B. TRANSFER OF TECHNOLOGY

1. The bidder must provide a free training program to qualified staff/employee of the Maritime Industry Authority (MARINA) in installation, configuration, administration of all of the deliverables.
2. Appropriate manuals such as Equipment, User and Operational Manual shall be provided to each participant and written in a 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.

VIII. PROJECT TIMEFRAME

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

IX. TERMS OF PAYMENT

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