# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER SALES SERVICE OF EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**

**Lot 1:** Supply, Delivery, Installation, Testing, Maintenance, Training and After Sales Service of **IT and Related Equipment**

**Lot 2**: Supply, Delivery, Installation, Testing, Maintenance, Training and After Sales Service of **Power and Electrical Equipment**

**Lot 3**: Supply, Delivery, Installation, Testing, Maintenance, Training and After Sales Service of **Fire Safety and Related Equipment**

 **p 1 /…**

**Publication reference:** **EuropeAid/140806/IH/SER/MULTI**

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

***(\*\* Annex II.A1, A2 and A3 – Delivery Location/ Quantity/Distribution Schedule is attached at the end)***

**LOT 1: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER-SALES SERVICE OF IT AND RELATED EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**

| **1.****Item number** | **2.****Specifications required** | **3.****Specifications offered** | **4.** **Notes, remarks, ref to documentation** | **5.****Evaluation committee’s notes**  |
| --- | --- | --- | --- | --- |
| **1. TV monitoring screens** **Qty: 36****Delivered at:****Benin (5)** **Cape Verde (5)** **Cote d’Ivoire (5)****Gambia (2),** **Ghana (5),** **Guinea (2),** **Guinea Bissau (2), Liberia (2),****Nigeria (2),** **Senegal (2),** **Sierra Leone (2),** **Togo (2)** | * HD Smart TV combining 8K HDR picture quality,
* Flat Screen
* Display Size: 82 inch
* Connectivity Technology: USB, Bluetooth, Wireless, HDMI Ports: 4
* Display Type: QLED
* Resolution 8K (7,680 x 4,320) of over 33 million pixels—16x the resolution of Full HD 1080p HDTV. (8K AI upscaling / images with 8K-level picture quality, even from non-native 8K sources.
* Dynamic Black Equalizer
* Appropriate Dimensions
* Refresh Rate: 120 hertz (Using FreeSync VRR)
* Including smart features such as One Remote, Bixby voice command or equivalent, on-screen universal guide, SmartThings home appliance and device control, smart speaker
* expandability with Alexa and Google Assistant compatibility or equivalent.

**Application**: TV monitoring screens specially designed for maritime security imagery (coming from satellites) and maritime co-ordinational or operational center environments. |  |  |  |
| **2. Smart LED UHD TV****Qty: 25****Delivered at:****Benin (4)** **Cape Verde (4)** **Cote d’Ivoire (5)****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Display Size: 65 inch
* Intelligent processors
* Dolby Vision and Dolby Atmos or equivalent:
* Cast Capable, USB Drive HDR Playback
* HDMI 4 Digital Optical Audio Out 1
* Wi-Fi Support (2.4 GHz, 5 GHz
* TV must support eAR
* Dolby Atmos or similar via TrueHD via eARC
* Good distortion performance, good frequency

Must include: * Basic user manual
* Remote control
* Composite breakout adapter / Batteries / Power cable permanently attached to the TV
 |   |  |  |
| **3. Dual channel AIS Base station Receiver (Automatic Identification System)** **Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Dual channel AIS base station receiver and recorder with an internal USB memory stick data storage and TCP/IP interface.
* This AIS should be capable of receiving and saving data transmitted from AIS stations and have it transferred to PC or AIS system via the Internet. The recorder is designed for 24/7 operations. All AIS data strings received can be automatically time stamped. The time can be synchronized via NTP.
* Remote control over IP / Compliant web interface
* Receiver Frequencies: 161.975 MHz (AIS1)
* 162.052 MHz (AIS2)
* Receiver Sensitivity: -107 dBm
* Interfaces: BNC Connector for VHF Antenna
* RJ45 Socket for Data Transfer
* Internal Storage Medium: USB Memory Stick (Typical 8GB)
* Power Supply: Standard: 230 VAC, 0.5 A Fuse
* **Application:** It will be used in a maritime centre located along the coastline of the Gulf of Guinea. to track vessels fitted with AIS transceivers
 |  |  |  |
| **4. Vessel Monitoring System Unit (VMS)****Qty: 17****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (3),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Internationally certified AIS Class B Transceiver
* Real time, zero latency tracking and monitoring
* Dual terrestrial and satellite communication
* Two-way communication – status polling
* Anti-tamper & anti-spoofing technology
* Dynamic transmit encryption
* Integrated vessel activity audit (VAA) system
* Vessel activity and location alert system
* VMS-Connect™ system for enhanced onboard data collection and reporting
* Ruggedized – water, weather, shock & vibration proof
* SOS search & rescue alert
 |  |  |  |
| **5. Data Server****Qty: 20****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (3),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Automated, integrated enterprise storage management
* Chassis format**:** All-in-one (dual controllers, internal drive bays, networking and expansion ports)
* Rack size: 3U / Controllers2 hot-swappable per chassis (Active/active) /goodInternal storage capacity
* Supported expansion enclosures
* HDD: 15K, 10K, 7.2K RPM Functional
* Array configurationsAll-flash, hybrid or HDD arrays
 |  |  |  |
| **6. Desktop Computer** **Qty: 46****Delivered at:****Benin (9),** **Cape Verde (9),** **Cote d’Ivoire (11),****Gambia (1),** **Ghana (9),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Processor Type: Intel Core i5 processor or similar
* RAM (GB): 8
* Hard Disk (GB): 1000
* Operating System: Licensed genuine Windows 10 or similar pre-installed
* Internal Memory(GB): 8
* Weight (kg): -2.KG
* At least Microsoft Office 2019 or similar
 |  |  |  |
| **7. Laptop System with touchscreen****TOTAL Qty: 126****With AZERTY keyboard Operating System & Software in French** **Qty: 59****With QWERTY keyboard Operating System & Software in English** **Qty: 42****With PORTUGUESE keyboard Operating System & Software in Portuguese** **Qty: 25****Delivered at:****Benin (25), 3E, 22F****Cape Verde (25), 5F, 2E,18P****Cote d’Ivoire (35), 19F, 5P, 11E****Gambia (2), 2E****Ghana (25), 7 F, 18E****Guinea (2), 2 F****Guinea Bissau (2), 2P Liberia (2), 2E****Nigeria (2), 2E****Senegal (2), 2F****Sierra Leone (2), 2E****Togo (2) 2F** | * **Hardware**
	+ Intel Core i7, 8th generation or similar.
* **Mobile** **Processor**
	+ 8MB L3 or more Cache memory, Quad core
	+ Bus Speed 4Ghz or higher
	+ 512 GB Solid State Drive or more AND 1TB **Hard Disk Drive**
	+ 16GB DDR3 SDRAM Memory or higher
	+ 13" diagonal FHD SVA anti-glare slim LED-**backlit (1920 x 1080), touchscreen**
	+ Super-Multi 8x DVD-R/RW (External Drive), **Double Layer Support**
	+ Multi-Card 5-in-1 Digital Card Reader
	+ In-built Webcam 2-Megapixel (min)
	+ Ethernet 802.11b,g,n
	+ Bluetooth
	+ Keyboard: AZERTY/QWERTY/PORTUGUESE with numeric pad, backlit
	+ Ports: 4xUSB 3.1 (3Type A, 1Type C), HDMI, VGA, RJ45 Ethernet 1000Mbps, carte SD
	+ Battery: Min 3 Cell Lithium Ion (not less than 8hrs)
	+ Warranty (1/1/1) at least
	+ Laptop bag : House Office Pro
* **Software + licenses**
	+ Operating System: Windows 10 Pro 64 bits preinstalled or similar/ DVD Win 10 Pro 64 bits or similar in French, English & Portuguese;
	+ Microsoft office professional suite 2019 or similar in French, English & Portuguese +License
* - Antivirus latest version, 1 year licensed, 2 years warranty
 |  |  |  |
| **8. Printer** **Qty: 25****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (5),****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Print, copy, scan, fax,
* Web, wireless Print speed ISO. Up to 15 ppm (black); up to 8 ppm (color)
* ePrint; USB; Wireless (Wi-Fi)
* Front USB flash drive port; Print from mobile device Main Function: Wi-Fi: Print, Copy, Scan, Cloud Link
* 2 Cartridges (Black and Colour) Refillable ink tank printer with 2pl (min.) ink droplet size
* Mono Print Speed: Approx. 8.8 ipm¹
* Color Print Speed: Approx. 5.0 ipm¹
* Photo Print Speed: Approx. 5.0 ipm¹
* Borderless Printing: Yes (A4, Letter, 20x25cm, 13x18cm, 10x15cm)
* Maximum Paper Input: Rear tray: Max. 100 sheets (plain paper)
* High Resolution Paper
* Photo Paper / Envelope
* Photo and document scanner
* Scanner Resolution: Approx. 600 x 1200 dpi
* Copy Speed: Approx. 24 sec¹
* sESAT: Approx. 2.5 ipm¹
* Multiple Copy: 21 copies (max.)
* interface Type pc/mac: Hi-Speed USB (B Port)
* Wi-Fi: IEEE802.11 b/g/n
* Wi-Fi Security: WPA-PSK, WPA2-PSK, WEP, Administration password
* Possibility to activate/deactivate the wireless LAN.
* Cloud Printing capability
* Access Point Mode (Direct Connection from smart device)
* Supported Mobile System:
* iOS, Android or similar
* Windows RT mobile operating system or similar
* Power Source: AC 100-240V, 50/60Hz
 |  |  |  |
| **9. Laser Color Printer****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Functions: Print, copy, scan,
* Duplex printing
* Multitasking
* Print speed black: Normal: Up to 38 ppm
* First page out (ready): Black: As fast as 5.6 sec
* Scan digital files directly to email, USB, network folders, and the cloud with preloaded business apps
* Control access to print jobs
* Weight (kg): Approx 15
* optional Job Storage with PIN printing
* At least 2 years warranty
 |  |  |  |
| **10. Monochrome Laser Printers****Qty: 25****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (5),****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Monochrome Laser Multifunction Printer
* print and copy speed up to 40-45 pages per minute
* Produce clear text and clean graphics
* fast monochrome scanning and copying
* duplex auto document feeder
* Scan directly to e-mail, SSH server, USB, SharePoint, cloud services or a network folder to maximize efficiency
* At least 2 years warranty
 |  |  |  |
| **11. Colour Printer & Photocopier****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * 60 to 70 prints per minute.
* High speed multifunctional black and white - with added colour at least 16ppm Compliant with energy saving capacity.
* Large and flexible media supply for the busiest workloads.
* Multifunctional for use as Document Centre Scanner.
* (compliance with European RoHS and WEEE directives).
 |  |  |  |
| **12. Land Mobile VHF Radios****Qty: 4****Delivered at:****Benin (1),** **Cape Verde (1),** **Cote d’Ivoire (1),****Ghana (1)** | * Radio (136-174 MHz VHF)
	+ Channels: 1024 channels w/128 zones
	+ Frequencies: 136-174MHz
* Output power: 50 Watts
* Mounting Bracket
* Microphone / Microphone Hanger
* 3 meters DC Power Cable
* Misc. Hardware (Screws, etc.)
* Digital Conventional
* Digital Trunking: Upgrade available
* LTR®: Built-in
* GPS: Built-in
* Programmable keys: 7
* Waterproof rating: IP55
* Intuitive user interface:
* Analog/digital conventional mixed mode operation
* Status
* Text message / Radio check
* Stun, kill and revive / Call alert
* Remote monitor
* Hands-free communication with built-in Bluetooth®
* Safety features: emergency button, lone worker function, and power OFF emergency function
* Transparent data modem can transmit data at 9600bps over the radio
* Send up to 100-character text messages
* Programmable alerts can vibrate when a specific user call
* Channel voice announcement
* USB port to connect to a PC
* Active Noise Canceling
* Built-in 20W audio amplifier for connecting with external public address systems
* At least 3-year Factory Warranty and three years waterproof warranty
 |  |  |  |
| **13. Handheld VHF radio****Qty: 20****Delivered at:****Benin (5),** **Cape Verde (5),** **Cote d’Ivoire (5),****Ghana (5)** | * Channels: 512 channels w/128 zones
* Output power: 5 Watts
* Frequencies: 136-174
* Digital conventional
* Digital Trunking: Upgrade available
* Analog/digital conventional mixed mode operation
* Programmable keys: 6
* Waterproof rating: IP67
* Vibration function Built-in voice scrambler
* Upgrade to Type-D Trunking
* Over-the-Air Programming with manager software
* Over-the-Air Alias (OAA) sends own name with a call
* Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air
* Individual, group call / Status call and polling
* Short data message / Transparent date mode
* Hands-free communication with built-in Bluetooth®
* Transparent data modem can transmit data at 9600bps over the radio
* Channel voice announcement
* Built-in 2-tone, 5-tone, CTCSS, DTCS & MDC1200 in analog
* VOX (voice operated transmission) function
* Tactical group function / Normal, priority and voting scan / Voting scan for site roaming
* Digital voice scrambler (low level encryption)
* Analog voice scrambler (inversion)
* Radio (136-174 MHz)
* Desktop Charger
* Battery
* Antenna (142-162MHz)
* 3 Year Factory Warranty
 |  |  |  |
| **14. Fixed Mount Marine VHF Radio, class D****Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * 25-Watt Fixed Mount Marine VHF Radio, communication with ships
* Range up to 30 miles
* Built-in GPS Receiver
* Built-in Class D DSC
* Common NMEA Interface
* Compatible with Class B AIS TransceiverFavorite Channel Function
* Emergency/Weather Alert
* Includes Antenna, low-loss coax cable with properly installed connectors / Hand microphone, / DC power cable / Mounting bracket kit
* Waterproof
* Three Years waterproof warranty
* Possible local troubleshooting
* low-loss coax cable with properly installed connectors
 |  |  |  |
| **15. High Frequency Transceivers****Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),** **Togo (1)** | * Output Power: 100W (25W AM)
* RX Frequencies: 0.030-60.00MHz
* Dual receivers, dual spectrum scopes
* Receiver Type: Direct sampling for reducing distortion
* Built-in automatic antenna tuner
* Digital-Up-Conversion (DUC) for clean transmit
* DVI-D connector for an external display
* SD memory card slot for saving data
* I/Q signal output
* Memo pad stores up to 10 operating frequencies and modes
* Quick split function / Quick Dual watch function
* RF gain and squelch control with a knob
* RIT and ΔTX variable up to 9.999 kHz
* UTC/local clock and timer function
* 1 Hz pitch tuning and display
* Dial lock function
* Adjustable main dial brake
* External speaker jacks for Main and Sub receivers
* Screen saver function
* Multi-function meter (S-meter, Power, ALC, COMP, SWR, ID, VD and TEMP)
* Auto tuning step function

Should include: * Hand Microphone / DC Power Cable
* CW Key Plug / Spare Fuses
* At least, 1 Year Factory Warranty
 |  |  |  |
| **16. Gulf of Guinea Admiralty Charts****Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1** | * 1 Gulf of Guinea Admiralty Chart

(1 Chart per center) |  |  |  |
| **17. Territorial Waters Admiralty Charts****Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1** | * The Coastline showing Territorial Waters of the concerned country from the collection of Admiralty Charts

(1Chart per Center)  |  |  |  |
| **18. Electronic Chart Display and Information System (ECDIS)** **Qty: 4****Delivered at:****Benin (1),** **Cape Verde (1),** **Cote d’Ivoire (1),****Ghana (1)** | * ECDIS Software is an international system which can provide Electronic Navigational Charts of the GoG for all the ECOWAS Maritime centers

 * Subscription charges for three years
 |  |  |  |
| **19. Portable Standing Air Conditioner, Dehumidifier** **Qty: 25****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (5),****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Air conditioner for office use
* Function Remote with Window Kit
* Single exhaust hose:
* AC cooling rate (BTU/hr): 10,000 or 12 000 BTU;
* AC coverage area (sq ft): approx..400
* Cost way portable air conditioner with a temperature setting ranges from 62.6 to 86 degrees F
* Programmable 24-hour on/off timer cools on any schedule
* Rated input: 1150W; rated current: 10.2A
* Low side pressure: 261 PSI; high side pressure: 580 PSI
* Airflow: 300 stere/h
* Noise: 55db
* Cooling capacity: approx. 3kw
* Power supply: 110-120V/60hz;
* rated input: approx. 1,100W; rated current: approx..10.A
* Quick-install kit included for installing on any horizontal or vertical opening window
* 2-way up/down air deflection
 |  |  |  |
| **20. Digital door lock****Qty: 25****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (5),****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Possibility 3 unlock options: M1 card, Pass code or Mechanical Key.
* Max of 100 Codes, 800 Cards, users. Keypad illumination
* Code users must be able to change the code by their own, no need to know master code, the one who knows master code can easily add or delete normal users.
* Password protect function, Possibility many digits before and after the code to open the door, total length must be less than 20 digits
* Double user function,
* Handle Orientation for the lock should be easily Reversible
* Standard Single Latch, backset for 2-3/8" and 2-3/4" both should be available in the packing

Package should include 2 M1 Cards, and 2 Metal Keys and necessary fitting components. |  |  |  |
| **21. CCTV Security system****Qty: 17****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (3),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * 8 Box [CCTV Cameras](https://www.cctvcamerapros.com/High-Resolution-CCD-Camera-p/pro-630dn35.htm)
* High Resolution Cameras
* Camera lenses are varifocal from 3.5-8mm
* [8 Channel Surveillance DVR](https://www.cctvcamerapros.com/960H-Security-DVR-p/idvr-pro8a.htm) w/ 500 GB Hard Drive
* 240 frames per second display (30 fps per channel)
* Possibility remote access from PC, MAC, iPhone, Blackberry & Android
* DVR uses Hardware Compression
* Auto port feature for easy remote access setup
* Dynamic IP support for internet monitoring over DSL or Cable
* Simultaneously live viewing, recording, playback, backup, network, and copy
* Power supply box to connect all cameras to

all cables and connectors for easy installation |  |  |  |
| **22. Medium Safe****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Exterior Dimensions 650 X 445 X 400 HxWxD (mm).
* Interior Dimensions 550 X 365 X 296 HxWxD (mm).
* Fitted with an external power point
* Must be Back or Base fixed
* Double walled steel door and body
* Adjustable shelving
* Fitted with Electronic lock
* Weight max 55 kgs
* Supplied with a shelf
* Supplied with DIY fixing kit
* High level of Fire Protection
* Digital media protection, protects USB, CDs/DVDs, external HDD
* Waterproof as well
* 5 years warranty for office use
 |  |  |  |
| **23. Small Safe****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Exterior Dimensions 410 X 335 X 300 HxWxD (mm)
* Interior Dimensions 343 X 275 X 180 HxWxD (mm)
* Fireproof and Waterproof Safe
* Back and base fixing
* Fitted with solid steel sliding bolts on three sides.
* European regulations Approved Safe
* Weight max 55 kgs
* Must be supplied with a shelf.
* 5 years warranty for office use
 |  |  |  |
| **24. Shredder** **Qty: 28****Delivered at:****Benin (5),** **Cape Verde (5),** **Cote d’Ivoire (5),****Gambia (1),** **Ghana (5),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Trip-cut paper shredder with 8-sheet capacity; Should destroy credit cards, CDs, and DVDs (one at a time)
* Shreds paper into strips
* Overload / Overheat protection
* Auto start and manual reverse to clear paper jams
* 22-cm-wide paper feed; up to 12-litre wastebasket; thermal protection / Measures fitting an office
 |  |  |  |
| **25. Binding Machine****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Binding Machine, 21-Hole, 450 Sheet, Paper Punch Binder
* Starter Kit 100 PCS 3/8'' PVC Comb Bindings,
* Comb Binding Machine for Letter Size / A4 / A5
 |  |  |  |
| **26. Microwave oven****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Smart Inverter / Even Heating /Even Defrosting
* Fast and various Cooking
* Stable Working
* Capacity approx. 42 liters
* Power 1350 Watt
* Electricity Power: 230V/50HZ
* Easy Clean Coating (Antibacterial)
* Display White LED
* Clock / Time Setting
* Child Lock, Quick Start
* Taste Saver
* Color Silver
 |  |  |  |
| **27. Projector screen** **Qty: 17****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (3),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Remote-controlled projector screen with
* electric motor to roll up and down and
* Size: 120" x 120" (diagonal) display
 |  |  |  |
| **28. Binoculars 7x50** **Qty: 23****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (3),****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Water proof marine binoculars with scale
* Individual Focus
* Compass
* Non-slip and ergonomic rubber design for secure grip
* Heavy-duty, shockproof rubber armorIdeal for sea and all-weather conditions
* Specially designed for nautical use
* Includes carrying case and neck strap
* At least 5 year Warranty
 |  |  |  |
| **29. Digital Camera with Intelligent Zoom** **Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * 30.4-megapixel sensor, filming at 4K resolution with seven frames per second of continuous shooting speed.
* Featuring an ISO range of between 100 and 32,000,
* high light sensitivity,
* touch-screen LCD display
* Must include lens and tripod stand
 |  |  |  |
| **30. Personal translator****Qty: 54****Delivered at:****Benin (11),** **Cape Verde (11),** **Cote d’Ivoire (13),****Gambia (1),** **Ghana (11),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Portable Instant Language Translator Device (UV Black)
* Foreign Language Real-Time 2-Way Translations [Support Up to 42 Languages/Voice Operated
* Compatible with iPhone and Android Smartphone operating systems
 |  |  |  |

**LOT 2: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER-SALES SERVICE OF POWER AND ELCTRICAL EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**

| **1.****Item number** | **2.****Specifications required** | **3.****Specifications offered** | **4.** **Notes, remarks, ref to documentation** | **5.****Evaluation committee’s notes**  |
| --- | --- | --- | --- | --- |
| **1. Stand-by Generator** **Qty: 4****Delivered at:****Benin (1)** **Cape Verde (1)** **Cote d’Ivoire (1)****Ghana (1)** | * 100 KVA Diesel Generator, including all accessories of installation and connection
* Compact design
* Automatic start
* Fully engineered with a wide range of options and accessories
* Provision of main spare parts
* Provide maintenance during 3 first years
* Supplier will be responsible for preparing the concrete base slab for the installation of the new Generator as directed by Contracting Authority.
 |  |  |  |
| **2. Heavy duty Uninterrupted Power Supply****Qty: 16****Delivered at:****Benin (2),** **Cape Verde (2),** **Cote d’Ivoire (2),****Gambia (1),** **Ghana (2),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * 1500 VA - 220VAC
* Input voltage range for mains operation:

160 – 286 V* Input voltage adjustable range for main operation: 151 – 302 V
* Output voltage distortion: ≤5%
* Input/output frequency: 50/60Hz ±3 Hz
* Typical recharge time: 3 hours
* Warranty: 1/1/0
 |  |  |  |
| **3. Automatic Voltage Regulator- Stabilizer** **Qty: 112****Delivered at:****Benin (21),** **Cape Verde (21),** **Cote d’Ivoire (25),****Gambia (3),** **Ghana (21),** **Guinea (3),** **Guinea Bissau (3), Liberia (3),****Nigeria (3),** **Senegal (3),** **Sierra Leone (3),****Togo (1)** | * Automatic Voltage Regulator with several levels of voltage stabilization
* Stabilizer 5000VA, transformers, relay type
* Input and output voltage LED/Meter/LCD display
* Should correct brown-outs as low as 100V and over-voltages as high as 270V to a safe 220V output power.
* High temperature protection
* Circuit breaker protection
* Efficiency must be high until: 98%

To be delivered with Spare Fuse and Manual |   |  |  |
| **4. Solar Power Inverter****Qty: 66****Delivered at:****Benin (12),** **Cape Verde (12),** **Cote d’Ivoire (14),****Gambia (2),** **Ghana (12),** **Guinea (2),** **Guinea Bissau (2), Liberia (2),****Nigeria (2),** **Senegal (2),** **Sierra Leone (2),****Togo (2)** | * Desktop computer inverter
* No noise and high efficiency.
* LED indicator light / adjustable switch selector.
* Including a battery lead-acid cell, gel battery or glass fiber clapboard battery (AGM).
* 70A Auto three stage charge (large current, charge, absorb and floating charge).
* Saving energy, no load.
* Everlasting lifetime in extreme environmental conditions including maritime coastal environment.
 |  |  |  |

**LOT 3: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER SALES SERVICE OF FIRE SAFETY AND RELATED EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**

| **1.****Item number** | **2.****Specifications required** | **3.****Specifications offered** | **4.** **Notes, remarks, ref to documentation** | **5.****Evaluation committee’s notes**  |
| --- | --- | --- | --- | --- |
| **1. Industrial wired heat, smoke or carbon monoxide alarm** **system** **Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Wired smoke detector and CO2 alarm type
* At least with an 85dB audible alert.
 |  |  |  |
| **2. 12kg ABC Powder XTR Fire Extinguishers** **Qty: 25****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (5),****Gambia (1),** **Ghana (4),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Suitable for class A, B and C fires, (wood/paper, flammable liquids, electrical and vehicle fires.
* Wall Bracket to be included
* 5 Year Warranty
 |   |  |  |
| **3. Chrome Effect 2 kg Carbon Dioxide Fire Extinguisher - Polished Aluminium****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * Carbon Dioxide extinguishers.
* Suitable for Class B and C Flammable liquid and electrical fires only

At least 5 Year Manufacturer’s Warranty |   |  |  |
| **4. 1 Liter Water Mist Fire Extinguishers****Qty: 33****Delivered at:****Benin (4),** **Cape Verde (4),** **Cote d’Ivoire (5),****Gambia (2),** **Ghana (4),** **Guinea (2),** **Guinea Bissau (2), Liberia (2),****Nigeria (2),** **Senegal (2),** **Sierra Leone (2),****Togo (2)** | * Suitable on Class F & electrical fires
* Corrosion-resistant finish
* Protective plastic base
* To be supplied with wall mounting bracket
* 5 Year Warranty.
 |  |  |  |
| **5. First aid kit+ resuscitation oxygen set + Diagnostic kit****Qty: 21****Delivered at:****Benin (3),** **Cape Verde (3),** **Cote d’Ivoire (4),****Gambia (1),** **Ghana (3),** **Guinea (1),** **Guinea Bissau (1), Liberia (1),****Nigeria (1),** **Senegal (1),** **Sierra Leone (1),****Togo (1)** | * First Aid equipment + Oxygen Bottle and mask + Adult Aneroid Sphygmomanometer with Dual-head Stethoscope Kit
* Manufacturer’s warranty
 |  |  |  |

**ANNEX II.A1**

|  |
| --- |
| **LOT 1: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER-SALES SERVICE OF IT AND RELATED EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**  |
| **Item** | **Total Qty** | **Delivery Location/ Quantity/Distribution Schedule** |
| **Benin** | **Cape Verde** | **Cote d’Ivoire** | **Gambia** | **Ghana** | **Guinea** | **Guinea Bissau** | **Liberia**  | **Nigeria** | **Senegal** | **S. Leone** | **Togo** |
| **1. TV monitoring screens** | **36** | **5** | **5** | **5** | **2** | **5** | **2** | **2** | **2** | **2** | **2** | **2** | **2** |
| **2. Smart LED UHD TV** | **25** | **4** | **4** | **5** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **3. Dual channel AIS Base station Receiver (Automatic Identification****System)** | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **4. Vessel Monitoring System Unit (VMS)** | **17** | **2** | **2** | **3** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **5. Data Server** | **20** | **3** | **3** | **3** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **6. Desktop Computer Type: All-In-One** | **46** | **9** | **9** | **11** | **1** | **9** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **7. Laptop System with touchscreen** | **126** | **25** | **25** | **35** | **2** | **25** | **2** | **2** | **2** | **2** | **2** | **2** | **2** |
| **8. Printer**  | **25** | **4** | **4** | **5** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **9. Laser Color Printer** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **10. Monochrome Laser Printers** | **25** | **4** | **4** | **5** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **11. Colour Printer & Photocopier** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **12. Land Mobile VHF Radios** | **4** | **1** | **1** | **1** |  | **1** |  |  |  |  |  |  |  |
| **13. Handheld VHF radio** | **20** | **5** | **5** | **5** |  | **5** |  |  |  |  |  |  |  |
| **14. Fixed Mount Marine VHF Radio, class D** | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **15. High Frequency Transceivers** | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **16. Gulf of Guinea Admiralty Charts** | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **17. Territorial Waters Admiralty Charts** | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **18. Electronic Chart Display and Information System (ECDIS)**  | **4** | **1** | **1** | **1** |  | **1** |  |  |  |  |  |  |  |
| **19. Portable Standing Air Conditioner, Dehumidifier**  | **25** | **4** | **4** | **5** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **20. Digital door lock** | **25** | **4** | **4** | **5** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **21. CCTV Security system** | **17** | **2** | **2** | **3** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **22. Medium Safe** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **23. Small Safe** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **24. Shredder**  | **28** | **5** | **5** | **5** | **1** | **5** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **25. Binding Machine** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **26. Microwave oven** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **27. Projector screen**  | **17** | **2** | **2** | **3** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **28. Binoculars 7x50**  | **23** | **4** | **4** | **3** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **29. Digital Camera with Intelligent Zoom**  | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **30. Personal translator** | **54** | **11** | **11** | **13** | **1** | **11** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |

**ANNEX II.A2**

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| **LOT 2: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER-SALES SERVICE OF POWER AND ELECTRICAL EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**  |
| **Item** | **Total Qty** | **Delivery Location/ Quantity/Distribution Schedule** |
| **Benin** | **Cape Verde** | **Cote d’Ivoire** | **Gambia** | **Ghana** | **Guinea** | **Guinea Bissau** | **Liberia**  | **Nigeria** | **Senegal** | **S. Leone** | **Togo** |
| **1. Stand-by Generator**  | **4** | **1** | **1** | **1** |  | **1** |  |  |  |  |  |  |  |
| **2. Heavy duty Uninterrupted Power Supply** | **16** | **2** | **2** | **2** | **1** | **2** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **3. Automatic Voltage Regulator- Stabilizer**  | **112** | **21** | **21** | **25** | **3** | **21** | **3** | **3** | **3** | **3** | **3** | **3** | **3** |
| **4. Solar Power Inverter** | **66** | **12** | **12** | **14** | **2** | **12** | **2** | **2** | **2** | **2** | **2** | **2** | **2** |

**ANNEX II.A3**

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| **LOT 3: SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE, TRAINING AND AFTER-SALES SERVICE OF FIRE SAFETY AND RELATED EQUIPMENT TO ECOWAS MARITIME CENTERS AND ECOWAS MULTINATIONAL MARITIME COORDINATION CENTERS**  |
| **Item** | **Total Qty** | **Delivery Location/ Quantity/Distribution Schedule**  |
| **Benin** | **Cape Verde** | **Cote d’Ivoire** | **Gambia** | **Ghana** | **Guinea** | **Guinea Bissau** | **Liberia (** | **Nigeria** | **Senegal** | **S. Leone** | **Togo** |
| **1. Industrial wired heat, smoke or carbon monoxide alarm** **system**  | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **2. 12kg ABC Powder XTR Fire Extinguishers** | **25** | **4** | **4** | **5** | **1** | **4** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **3. Chrome Effect 2 kg Carbon Dioxide Fire Extinguisher - Polished Aluminum** | **21** | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
| **4. 1 Liter Water Mist Fire Extinguishers** | **33** | **4** | **4** | **5** | **2** | **4** | **2** | **2** | **2** | **2** | **2** | **2** | **2** |
| **5. First aid kit+ resuscitation oxygen set + Diagnostic kit** | 21 | **3** | **3** | **4** | **1** | **3** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |