

## ***Technical Specifications***

**Project Title:** CLEAN AND RESILIENT ENVIRONMENT FOR BLUE SEA

**Contract Title:** “Purchase of IT Equipment for MoE and PMT”

**Implementing Agency:** Ministry of Environment

### **Background**

The Clean and Resilient Environment for Blue Sea (CARE4BlueSea) Project (P176163), financed by the World Bank, aims to reduce pollution from land-based sources into the aquatic environment in selected areas of the South-West Coastal Belt of Albania. The Project supports integrated interventions in solid waste management, sanitation infrastructure, non-point source pollution prevention, institutional strengthening, and behavioral change, while aligning with EU environmental directives and national environmental strategies.

The Project is implemented by the Ministry of Environment (MoE) through a dedicated Project Management Team (PMT) and is responsible for coordinating all day-to-day project implementation activities on behalf of MoE. Under **Component 3 – Project Management, Monitoring and Evaluation**, the Project finances management and coordination activities necessary for effective implementation, including operational costs and procurement of IT and Office Equipment for the performance of all relevant activities and tasks.

### **Objectives**

This assignment aims to provide IT and other relevant office equipment for the Project Management Team (PMT) to facilitate daily project implementation.

Below is presented the summary table of all IT equipment and other relevant office equipment. The separate technical specifications and quantities have been further specified in the Technical Specifications for Equipment section.

<b>Nr.</b>	<b>Item</b>	<b>Unit</b>	<b>Amount</b>
<b>1</b>	<b>Workstation PCs (per manufacturer)</b>	<b>pcs</b>	<b>11</b>
<b>2</b>	<b>Advanced Laptops</b>	<b>pcs</b>	<b>4</b>
<b>3</b>	<b>Advanced Multifunction Color MFP Photocopier</b>	<b>pcs</b>	<b>3</b>
<b>4</b>	<b>Basic Multifunction Color MFP Photocopier</b>	<b>pcs</b>	<b>1</b>
<b>5</b>	<b>Webcams</b>	<b>pcs</b>	<b>11</b>
<b>6</b>	<b>Headsets</b>	<b>pcs</b>	<b>13</b>
<b>7</b>	<b>5 Port Switch</b>	<b>pcs</b>	<b>2</b>
<b>8</b>	<b>WIFI Router</b>	<b>pcs</b>	<b>1</b>
<b>9</b>	<b>1000 VA UPS</b>	<b>pcs</b>	<b>11</b>
<b>10</b>	<b>Type 4 Scanner</b>	<b>pcs</b>	<b>1</b>

## TECHNICAL SPECIFICATIONS FOR EQUIPMENT

<b>PERSONAL COMPUTERS - WORKSTATIONS    11 PCS</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Min processor rating according to: cpubenchmark.net:</b>	12000 points
<b>RAM:</b>	16 GB, min. DDR4-2666 MHz, ECC
<b>HDD Size:</b>	(1) x 256 GB SSD Operating system and (2) x 1000 GB HDD
<b>HDD Speed:</b>	7200 RPM SATA 6.0 Gb/s per HDD
<b>Disk Subsystem Controller:</b>	Serial ATA III 6.0 Gb/s, Minimum 4 Serial ATA Interface with RAID 0,1,5,10 Support. (Hard Disk configured to RAID 1)
<b>Graphics Card:</b>	HD Dedicated Graphics Card PCI-E x16, Min. 2 GB Memory; Min. (2) Ports (VGA/DVI/HDMI/DP, adapters included). Recommended and installed by the supplier
<b>Media Device:</b>	DVD+/-RW with Dual Layer DVD+R write capacity (external DVD+/-RW hard drives are also acceptable, does not have to be the same brand as the computer)
<b>Slots:</b>	Minimum (4) PCI-E with at least min. (2) PCI-E x16 and min. (1) M.2 NVMe.
<b>NETWORKING &amp; MANAGEMENT</b>	
<b>Ports:</b>	Min. (8) USB: a. Min. (2) USB in the front; b. Min. (6) USB 3.0 (2) RJ-45, (1) Audio In/Out, (1) Mic. and (1) Headphone (can be one combined port), (1) Video port (can also be an adaptor)
<b>Networking:</b>	(2) 10/100/1000 LAN Gigabit Ethernet Port
<b>Sound:</b>	Integrated Sound Card
<b>Speakers:</b>	Internal speakers or Built-in Monitor
<b>Security Management:</b>	Embedded Security TPM 2.0
<b>Preinstalled Licensed O. S.:</b>	OEM Windows 11 64-bit Professional for Workstations
<b>Keyboard:</b>	Standart Keyboard QWERTY
<b>Mouse:</b>	Minimum 3 Button Scroll Optical
<b>Power Supply:</b>	220 V AC, 50 Hz
<b>Energy Efficiency:</b>	Energy Star
<b>ACCESORIES</b>	
<b>Power Cord:</b>	Yes, European
<b>Recover:</b>	Recover Partition

<b>MONITOR</b>	
<b>Type:</b>	LCD or LED same brand as the workstation
<b>Size:</b>	≥ 23"
<b>Native Resolution:</b>	1920 x 1080 @ 60 Hz
<b>Contrast Ratio Static:</b>	1000:1
<b>Response Time:</b>	≤ 6 ms
<b>Display Port:</b>	(1) VGA or DVI (can also use an adaptor) and at least one (1) DP/DVI/HDMI
<b>Energy Efficiency:</b>	Energy Star
<b>Power Supply:</b>	220 V AC, 50 Hz
<b>WARRANTY</b>	
<b>Warranty:</b>	3 years

<b>LAPTOPS - ADVANCED 4 PCS</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Min Proc. Rating according to: cpubenchmark.net:</b>	12200 points
<b>Chipset:</b>	Intel or equivalent
<b>RAM:</b>	16 GB, min. DDR4 2666 MHz
<b>SSD Size:</b>	≥ 500 GB SSD
<b>Graphics:</b>	Dedicated Graphics with min. 4 GB Memory
<b>Display:</b>	15.6" FHD LED (1920 x 1080), Anti Glare
<b>Battery:</b>	Min. 60 Wh
<b>NETWORKING &amp; MANAGEMENT</b>	
<b>Ports:</b>	Min. (3) USB ports of which min. (3) USB 3.0/USB 3.1 (1) DP/HDMI (1) Integrated Mic. (1) Integrated HD Web Camera (1/1) Headphone/Microphone Jack or (1) Combo Jack
<b>Networking:</b>	10/100/1000 Mbps LAN (RJ-45); Wireless 802.11ac (Compatible with 802.11b/g/n); Bluetooth min. V4.1;
<b>Sound:</b>	Integrated, (2) x built-in Speakers (stereo)
<b>Preinstalled Licensed O. S.:</b>	OEM Windows 11 64-bit Professional
<b>Keyboard:</b>	QWERTY
<b>Printing Device:</b>	Touch Pad
<b>Security:</b>	Embedded Security TPM 2.0

<b>ACCESSORIES</b>	
<b>Power Cord:</b>	Yes, European
<b>Recharger:</b>	Yes
<b>Mouse</b>	Yes, same brand as the Laptop
<b>Carrying Bag:</b>	Yes, from the manufacturer. Suitable for the laptop and all of its accessories
<b>Recover:</b>	Recover Partition
<b>WARRANTY</b>	
<b>Warranty:</b>	3 years

## **PHOTOCOPY MULTIFUNCTION COLOR MFP ADVANCED 3 PCS**

### **MINIMUM TECHNICAL SPECIFICATIONS**

<b>Model:</b>	Copier, Printer, Scanner
<b>Copy/Print Speed for A4 B&amp;W:</b>	≥ 45 ppm
<b>Monthly Duty Cycle:</b>	200 000 pages
<b>Technology:</b>	Laser Color/B&W
<b>Reduction/Enlargement:</b>	25%-400%
<b>Document Feeder:</b>	RADF/DADF
<b>Paper Trays:</b>	2 (not including bypass)
<b>Input Capacity min:</b>	1000 pages
<b>Output Capacity min Standard:</b>	250 pages
<b>Duplex Copying/Print.:</b>	Yes
<b>Media Sizes:</b>	A3
<b>Memory:</b>	≥ 4 GB
<b>Hard Disk:</b>	≥ 250 GB
<b>Scan Speed:</b>	≥ 45 ppm
<b>Scan Resolution:</b>	600x600 dpi
<b>Maximum Scan Size:</b>	A3
<b>Toner:</b>	Includes Starter Kit
<b>NETWORKING &amp; MANAGEMENT</b>	
<b>Interface:</b>	High Speed USB 2.0
<b>Ethernet:</b>	Yes
<b>ACCESORIES</b>	
<b>Power Cord:</b>	Yes, European
<b>Software/Drivers CD :</b>	Yes
<b>Accompanying moving base to facilitate transport</b>	Yes compatible with machine

<b>WARRANTY</b>	
<b>Warranty:</b>	3 years or 150 000 copies*
<b>*Whichever comes first</b>	
<b>Consumables include the drum and toner</b>	

<b>PHOTOCOPY MULTIFUNCTION COLOR MFP BASIC 1 PC</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Model:</b>	Copier, Printer
<b>Copy/Print Speed for A4 B&amp;W:</b>	≥ 25 ppm
<b>Monthly Duty Cycle:</b>	≥ 100 000 pages
<b>Technology:</b>	Laser Color/B&W
<b>Reduction/Enlargement:</b>	25%-200%
<b>Document Feeder:</b>	RADF/DADF
<b>Paper Trays:</b>	2 (not including bypass)
<b>Input Capacity min:</b>	500 pages
<b>Output Capacity min Standard:</b>	250 pages
<b>Duplex Copying/Print:</b>	Yes
<b>Media Sizes:</b>	A3
<b>Memory:</b>	≥ 4 GB
<b>Hard Disk:</b>	≥ 250 GB
<b>Scan Speed:</b>	≥ 25 ppm
<b>Scan Resolution:</b>	600x600 dpi
<b>Maximum Scan Size:</b>	A3
<b>Toner:</b>	Includes Starter Kit
<b>NETWORKING &amp; MANAGEMENT</b>	
<b>Interface:</b>	High Speed USB 2.0
<b>Ethernet:</b>	Yes
<b>ACCESORIES</b>	
<b>Power Cord:</b>	Yes, European
<b>Software/Drivers CD :</b>	Yes
<b>Accompanying moving base to facilitate transport</b>	Yes, compatible with machine
<b>WARRANTY</b>	
<b>Warranty:</b>	1 Year or 120 000 Copies*
<b>*Whichever comes first</b>	
<b>Consumables include the drum and toner</b>	

<b>WEBCAM 11 PCS</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Model:</b>	Webcam, Min. Full HD 1080P
<b>Autofocus:</b>	Yes
<b>Integrated mic:</b>	Not necessarily
<b>Interface with computer:</b>	USB type A
<b>Field of view:</b>	Min. 78°
<b>Installation:</b>	Automatically (without the need for drivers)
<b>Supported OS:</b>	Windows 11 64-bit Prof. or better, Mac, etc.
<b>Mēnyra e vendosjes:</b>	Above monitor
<b>Cable length:</b>	Min. 1.5 m
<b>Warranty:</b>	6 Months

<b>HEADSET WITH MICROPHONE 13 PCS</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Model:</b>	Over ear with mic
<b>Attributes:</b>	Adjustable fit (flexibility to open or close) Volume control Noise reducing microphone
<b>Connection:</b>	USB Type A
<b>Cable Length:</b>	Min. 180 cm
<b>Compatibility:</b>	Windows, Mac.
<b>Warranty:</b>	6 month

<b>SWITCH 5 PORTS 2PCS</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Type:</b>	Unmanaged 5 Port Gigabit Switch
<b>Number of Ethernet Ports:</b>	5 Gigabit ports
<b>Forwarding modes:</b>	Store-and-forward

<b>IEEE Network Protocols:</b>	IEEE 802.3 Ethernet IEEE 802.3ab 1000BASE-T
<b>Certification:</b>	CE mark
<b>Accessories Included:</b>	Power Supply Power Adapter Quick Install Guide
<b>Warranty:</b>	1 Year

## Wifi ROUTER 1 PC

### MINIMUM TECHNICAL SPECIFICATIONS

<b>Type:</b>	Router Wireless Wi-Fi Gigabit
<b>Operation Mode:</b>	Wireless router mode Access point mode Media bridge mode
<b>Class:</b>	Min. AX 3200
<b>WiFi Standards:</b>	IEEE 802.11a/b/g/n/ac/ax
<b>Network Standard:</b>	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax, IPv4, IPv6
<b>Ports:</b>	(1) Gigabit WAN Port (4) Gigabit LAN Ports
<b>WAN Connection Type:</b>	Automatic IP, Static IP, PPTP, L2TP
<b>Transfer rate:</b>	Min. 570 Mbps
<b>Routing Protocols:</b>	IPSec, L2TP or PPTP
<b>Band:</b>	Dual Band: 2.4 GHz & 5 GHz
<b>Antennas:</b>	Built-In or External
<b>Security Features:</b>	WEP 64/128-bit WPA2-Personal & Enterprise (AES/TKIP) WPS
<b>LED indicators:</b>	Yes
<b>Buttons:</b>	WPS Button Reset Button
<b>Power Supply:</b>	AC Input: 110 - 240 V AC (50/60 Hz)
<b>Accessories Included:</b>	Quick Start Guide CD-ROM with documentation External Antennas (Optional) Ethernet Cable Power adapter Power cord

<b>Warranty:</b>	1 Year
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## UPS 1000VA      11 PCS

### MINIMUM TECHNICAL SPECIFICATIONS

<b>OUTPUT</b>	
<b>Power:</b>	1000 VA
<b>Power Factor:</b>	≥0.8
<b>Wave Form:</b>	Sinusoidale
<b>Nominal Voltage:</b>	220-240 V AC
<b>Frequency:</b>	50 +/- 5%
<b>Volt, Regul. (On Battery):</b>	+/-10%
<b>Output Connectors:</b>	≥ (4) IEC 320 C13-C14 (from battery)
<b>INPUT</b>	
<b>Nominal Voltage:</b>	220 - 240 V AC +/- 1%
<b>Frequency:</b>	50 Hz
<b>Voltage Window:</b>	170 - 270 V AC
<b>AVR:</b>	Yes
<b>Input Connectors:</b>	(1) IEC 320 C14
<b>NETWORKING &amp; MANAGEMENT</b>	
<b>Shutdown Software:</b>	Yes
<b>Led Indicators:</b>	For all states
<b>Audible Indicators:</b>	For all states
<b>Interface:</b>	(1) DB9 Serial or USB
<b>Protection:</b>	Overload, Discharge, and Overcharge Protection
<b>BATTERY</b>	
<b>Transfer time:</b>	≤4 ms
<b>Back-Up Time:</b>	≥6 min. at full capacity
<b>Battery Type:</b>	2 bateri x 12 V DC 7 Ah Lead-Acid
<b>ACCESSORIES</b>	
<b>Power Cord:</b>	(1) European IEC-C13
<b>PC Power Cord:</b>	(2) IEC 320 C13 - IEC 320 C14
<b>Data Cable:</b>	(1) DB9 Serial - DB9 Serial or USB - USB
<b>WARRANTY</b>	
<b>Warranty:</b>	2 Years

<b>SCANNER      1 PC</b>	
<b>MINIMUM TECHNICAL SPECIFICATIONS</b>	
<b>Tipi Type:</b>	CCD or CIS, or Equivalent
<b>Format:</b>	A3
<b>Resolution</b>	: 2400 dpi
<b>Scan Mode:</b>	Simplex and Duplex
<b>Media Feeder Type</b>	: Flatbed and ADF
<b>ADF Capacity:</b>	100 Pages
<b>Scanning Speed:</b>	40 ppm / 80 ipm (200 dpi), p̄r A4
<b>Power Supply:</b>	220 V AC, 50 Hz
<b>Functions:</b>	Single and Multi-page, TIFF, JPEG, RTF, PDF, Searchable PDF
<b>NETWORKING &amp; MANAGEMENT</b>	
<b>Interface:</b>	High Speed USB 2.0 or Ethernet
<b>Compatible O.S.:</b>	Win. 11 or newer
<b>Drivers + OCR Software:</b>	Yes
<b>ACCESORIES</b>	
<b>Power Supply + Cord:</b>	Yes, European
<b>CD/DVD Drivers and Software:</b>	Yes
<b>Data Cable:</b>	(1) USB Cable
<b>WARRANTY</b>	
<b>Warranty:</b>	2 Years