
**STRENGTHENING THE CAPACITIES OF THE JUSTICE SECTOR ACTORS TO DELIVER JUSTICE IN
LINE WITH EUROPEAN STANDARDS, IN PARTICULAR TO FIGHT DISCRIMINATION IN THE
REPUBLIC OF MOLDOVA**

Annex I

**IMPLEMENTATION OF HARDWARE INFRASTRUCTURE SUPPORT FOR THE
EQUALITY COUNCIL OF THE REPUBLIC OF MOLDOVA**

BUSINESS REQUIREMENTS

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1 INTRODUCTION

1.1 Purpose of the document

This document presents the detailed business requirements for the support to hardware infrastructure for the Equality Council of the Republic of Moldova.

The hardware will be delivered by the EU/CoE project “Strengthening the capacities of the justice sector actors to deliver justice in line with European standards, in particular to fight discrimination in the Republic of Moldova”.

1.2 Lexicon / Glossary

The list of specific terms and abbreviations used in the document.

Term	Definition
CPU	Central Processing Unit
IPS	In-Plane Switching (screen technology for liquid-crystal displays)
HDD	Hard Disk Drive
PSU	Power Supply Unit
SSD	Solid-State Drive
UPS	Uninterruptible Power Supply
SLA	Service Level Agreement

2 EXECUTIVE SUMMARY

The European Union and the Council of Europe Joint Project on strengthening the capacities of the justice sector actors to deliver justice in line with European standards, in particular to fight discrimination (the Project) is part of the Partnership for Good Governance (phase II). It is a national project for the Republic of Moldova..

As part of these efforts, EU/CoE plans to purchase hardware items selected through a needs assessment carried out by a national expert in November 2020. This assessment has shown what is the actual status of the technical equipment and what are the needs of the Equality Council to increase the efficiency and effectiveness of their performance.

The purpose of this document is to outline the hardware requirements for the necessary items, which in turn will assist the work of the Equality Council.

3 BACKGROUND INFORMATION

3.1 Project scope and Objectives

This project aims to provide detailed hardware equipment specifications for the items selected for purchase in the needs assessment. This equipment will allow for a more efficient and effective work in the activities carried out to prevent and protect against discrimination, to ensure equality and to promote equal opportunities and diversity.

This procurement action, foreseen for 2021, will in some cases replace obsolete technology and in others support the full potential of existing and future software. All items have been included in the needs assessment in consultation with the Equality Council and further discussed while drafting the business requirements.

3.2 Out of Scope

Licenses that the institution would need (e.g. Windows Office package) are out of the scope of the project. Indeed, this has been recommended to avoid compatibility problems with existing licenses already in use in the institutions.

3.3 Presentation of the relevant directorates / departments

The Council for Preventing and Eliminating Discrimination and Ensuring Equality (Equality Council) is an autonomous, unbiased and independent public authority, established in 2013. The Equality Council members don't have a political affiliation and are named by Moldovan Parliament for a period of 5 years. The President of the Council is elected by the Council members. The Equality Council consists of next departments:

- Department of non-discrimination policy
- Department to combat discrimination

3.4 Identified stakeholders, users, roles & responsibilities

The items will be used by the Equality Council staff in their daily basis work activities.

4 BUSINESS REQUIREMENTS

4.1 Detailed Business requirements

The procurement of the technical equipment for the Equality Council of the Republic of Moldova must be performed in accordance with the provided business requirements and technical specification requirements. The type of equipment, number of units and the estimated budget is provided in the current document. The Provider should be commercially available to provide the entire number of units required by the current Business Requirements (hereinafter BR).

4.1.1 Standards

The Goods supplied and the Services provided under this BR shall conform to the authoritative latest industry standards.

4.1.2 Commercial Availability

The Goods supplied under this BR shall be commercially available at the time of signing of the contract. Commercial availability means that such Goods shall have been sold, installed and operationalized.

4.1.3 Packing

The Provider shall provide such packing of the Goods as is sufficient to prevent their damage or deterioration during storage / transit to their final destination. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination and withstand, without limitation, rough handling, exposure to extreme temperatures, salt and precipitation at all points in storage / transit. The Provider shall arrange and pay for the packing of the Goods to the place of destination and the cost thereof shall be included in the Act of Engagement.

4.1.4 Labeling

The Goods supplied under the BR, shall be clearly labeled so as to correspond with the delivered documentation. All networking equipment, cables, connectors, ports, boxes shall be present and clearly labeled.

4.1.5 Power

The Goods supplied under this BR, unless otherwise specified, shall be capable of operating normally with single phase AC power, within the range of 220-240V, with the corresponding frequency of 50 Hz, inclusive, and should be protected from over-voltage, overheating and out-of-tolerance current surges.

4.1.6 Documentation

Each appropriate unit of the supplied Goods should be accompanied by the user documentation, the operation manuals, service manuals and other information pertaining to the performance of the Goods, in hard copy format, in soft copy format and in the form of on-line help, before the Goods are taken over by the Purchaser.

4.1.7 Installation and Training

The Provider is responsible for the installation of Configuration Management software, Server Operating System, and provides training for the efficient configuration and management of the system.

The list of required Software is provided where appropriate for each of IT equipment under the technical specification.

4.1.8 Warranty

4.1.8.1 The Provider shall warrant to the Council and the Recipient that the material is as per given specifications as provided in the detailed technical requirements below.

4.1.8.2 The Provider shall further warrant that the Goods supplied have no defect, arising from design, materials, workmanship or from any act or omission of the Contractor that may develop under normal use of the supplied Goods.

4.1.8.3 The Warranty Period shall start as indicated in the Act of Engagement, and for the period indicated in the technical requirements below for each product.

4.1.8.4 The Provider shall, within the prescribed time period, after receipt of such notice, repair or replace the defective / damaged Goods or parts thereof on site, without any cost to the Recipient

4.2 IT Equipment for the Equality Council

No.	Type of equipment*	Number of units
1	Advanced workstation	8
2	Basic workstation	5
3	Monitor	13
4	UPS	13
5	Ultrabook	1
6	Laptop 17-inch	10
7	Laptop 15-inch	5
8	Webcam	20
9	Headset with microphone	20
10	Video conferencing system	1

* Technical specification for each type of equipment is provided under chapter 5. Technical Requirements, subchapter 5.2.

5 TECHNICAL REQUIREMENTS

5.1 General

5.1.1 These specifications describe the requirements for goods. Tenderers are requested to submit with their offers the detailed specifications, drawings, catalogues, etc for the products they intend to supply.

5.1.2 Tenderers must indicate on the specifications sheets whether the equipment offered comply with each specified requirement.

5.1.3 All the dimensions and capacities of the equipment to be supplied shall not be less than those required in these specifications. Deviations from the basic requirements, if any shall be explained in detail in writing with the offer, with supporting data such as calculation sheets, etc. The procuring entity reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products.

5.2 Technical Specifications of the IT Equipment for the Equality Council

No.	Type of equipment/Technical specifications		Number of units
1	Desktop computer (Advanced workstation)		
	Equipment usage	The equipment will be used for the activity of Equality Council members and staff.	8
	Type	All-In-One Advanced workstation	
	Processor	8 cores, 8 threads, min. 3.0 GHz with boost up to 4.7GHz, 12 MB cache	
	Cooler	Stock cooler	
	Motherboard	Standard-ATX, Dual Channel Non-ECC unbuffered DDR4; Ultra-Fast M.2 with PCIe Gen3 X2 & SATA interface; USB 3.1; Gigabit Ethernet; 802.11 b/n/ac (2x2) WiFi card.	
	Memory	16GB DDR4-2666MHz CL15	
	Primary storage	1 x SSD 512GB M.2	
	Video Card	PCI Express x16 3.0; Core clocks: 1455 MHz / 1341 MHz; Memory speed: 7008 MHz; Memory: 4GB GDDR5 (128-bit); Output: DisplayPort (Version 1.4) / HDMI 2.0b / DL-DVI-D	
	Case	Standard-ATX, 120mm exhaust fan	
	Power Supply	650W, 85% power efficiency or higher	
	Software	Pre-installed licensed Windows 10 Pro 64bit operating system with the possibility change of interface language (Romanian/ Russian/ English), with the possibility to Create and join a domain (work network);	
	Input Device	Full size QWERTY USB keyboard (Eng/Rus with factory engraved characters) and USB Mouse	
	Warranty	3 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	

2	Desktop computer (Basic workstation)		
	Equipment usage	The equipment will be used for the activity of Equality Council members and staff.	5
	Type	All-In-One Basic workstation	
	Processor	6 cores, 6 threads, min. 3.0 GHz base frequency, min. 6 MB cache	
	Cooler	Stock cooler	
	Matherboard	microATX, Dual Channel Non-ECC unbuffered DDR4; Ultra-Fast M.2 with PCIe Gen3 X2 & SATA interface; USB 3.1; Gigabit Ethernet; 802.11 b/n/ac (2x2) WiFi card.	
	Memory	2 x 4GB DDR4-2666MHz CL15	
	Primary storage	1 x SSD 512GB M.2	
	Video Card	Integrated	
	Case	MicroATX, 120mm exhaust fan	
	Power Supply	450W, 85% power efficiency or higher	
	Software	Pre-installed licensed Windows 10 Pro 64bit operating system with the possibility change of interface language (Romanian/ Russian/ English), with the possibility to Create and join a domain (work network);	
	Input Device	Full size QWERTY USB keyboard (Eng/Rus with factory engraved characters) and USB Mouse	
	Warranty	3 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
3	Monitor		
	Equipment usage	The monitors will be used with the Advanced and Basic workstations for the activity of Equality Council members and staff.	13
	Minimum Specifications	IPS-based 24" with narrow bezel (1920x1200 Native resolution, Anti-Glare, W-LED); Adjustable stand with Vertical/Landscape Adjustment min. 100mm; Tilt adjustment and Pivot Rotation	
	Warranty	3 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
4	UPS		
	Equipment usage	UPS will be used for the Advanced and Basic workstations	13
	Type	External UPS	
	Output Capacity	min. 500W	
	Output Voltage	220V/230V	

	Frequency	50Hz	
	UPS Output Receptacles	min. 4x UPS and surge protection outlets	
	UPS AC Suppression	min. 300 Joule	
	Warranty	2 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
5	Notebook/Laptop (Ultrabook)		
	Equipment usage	The equipment will be used for the activity of Equality Council members and staff.	
	Type	Ultrabook	
	Processor	min. 8MB cache, 4 cores 8 Threads, min. 1.8 GHz base frequency	
	Memory	min. 16GB DDR4 (1x SODIMM);	
	Storage	min. 256 GB SSD storage	
	Network Interfaces	Gigabit Ethernet; 802.11 b/n/ac (2x2) WiFi card, Bluetooth v5.1	
	Display	13.3" - 14" IPS FHD (1920x1080 Native resolution, Anti-Glare, min. 300:1 contrast, min. 250 nits brightness)	
	Graphics card	min. 2 GB GDDR5, 1665 MHz, 8 Gbps, 128-bit	
	Audio/Multimedia	HD Webcam; Dual-microphone array; integrated stereo speakers	
	Ports	min. 2x USB 3.1 port; min 1x USB Type C port; 1x HDMI 1.4, Audio port	1
	Security	TPM 2.0; Fingerprint reader; Setup/Power On Authentication; Smart Card Reader; Security Lock slot	
	Software	Pre-installed licensed Windows 10 Pro 64bit operating system with the possibility change of interface language (Romanian/ Russian/ English), with the possibility to Create and join a domain (work network);	
	Input Device	Full size QWERTY backlit spill-resistant keyboard (Eng/Rus with factory engraved characters), Clickpad/Touchpad with gestures support;	
	Battery	Battery life min. 10 hours	
	Weight	max. 1.7 kg	
	Warranty	3 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
6	Notebook/Laptop (15-inch)		
	Equipment usage	The equipment will be used for the activity of Equality Council members and staff.	5

	Type	Business Notebook 15-inch	
	Processor	min. 6MB cache, 4 cores 4 threads, min. 1.7 GHz base frequency	
	Memory	min. 8GB DDR4 (1x SODIMM); 1x SODIMM slot must be free; both slots must be accessible and upgradeable	
	Storage	min. 256 GB SSD storage	
	Network Interfaces	Gigabit Ethernet; 802.11 b/n/ac (2x2) WiFi card, Bluetooth v5.1	
	Display	15.6" (1920x1080 Native resolution, Anti-Glare, min. 300:1 contrast, min. 220 nits brightness)	
	Graphics card	integrated	
	Audio/Multimedia	HD Webcam; Dual-microphone array; integrated stereo speakers	
	Ports	min. 2x USB 3.1 port; 1x USB Type C port; Digital video port; VGA port or digital video port to VGA adapter; RJ45, Audio port	
	Security	TPM 2.0; Fingerprint reader; Setup/Power On Authentication; Smart Card Reader; Security Lock slot	
	Software	Pre-installed licensed Windows 10 Pro 64bit operating system with the possibility change of interface language (Romanian/ Russian/ English), with the possibility to Create and join a domain (work network);	
	Input Device	Full size QWERTY backlit spill-resistant keyboard (Eng/Rus with factory engraved characters) and separate numeric keypad; Clickpad/Touchpad with gestures support;	
	Battery	Battery Life min. 5 hours	
	Weight	max. 2.5 kg	
	Warranty	3 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
7	Notebook/Laptop (17-inch)		
	Equipment usage	The equipment will be used for the activity of Equality Council members and staff.	
	Type	Business Notebook 17-inch	
	Processor	min. 6MB cache, 4 cores 4 threads, min. 1.7 GHz base frequency	
	Memory	min. 8GB DDR4 (1x SODIMM); 1x SODIMM slot must be free; both slots must be accessible and upgradeable	10
	Storage	min. 256 GB SSD storage	
	Network Interfaces	Gigabit Ethernet; 802.11 b/n/ac (2x2) WiFi card, Bluetooth v5.1	
	Display	17.3" (1920x1080 Native resolution, Anti-Glare, min. 300:1 contrast, min. 220 nits brightness)	

	Graphics card	min. 2 GB GDDR5, 1665 MHz, 8 Gbps, 128-bit	
	Audio/Multimedia	HD Webcam; Dual-microphone array; integrated stereo speakers	
	Ports	min. 2x USB 3.1 port (1x must be charging); 1x USB Type C port; Digital video port; VGA port or digital video port to VGA adapter; RJ45, Audio port	
	Security	TPM 2.0; Fingerprint reader; Setup/Power On Authentication; Smart Card Reader; Security Lock slot	
	Software	Pre-installed licensed Windows 10 Pro 64bit operating system with the possibility change of interface language (Romanian/ Russian/ English), with the possibility to Create and join a domain (work network);	
	Input Device	Full size QWERTY backlit spill-resistant keyboard (Eng/Rus with factory engraved characters) and separate numeric keypad; Clickpad/Touchpad with gestures support;	
	Battery	Battery Life min. 5 hours	
	Weight	max. 2.7 kg	
	Warranty	3 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
8	Webcamera		
	Equipment usage	The web cameras will be distributed to the staff and members of the Equality Council to be used with the workstations.	
	Resolution	min. 720p/30fps	
	Field of view	min. 60°	
	Connection	USB - A port; compatible with Windows 10	20
	Mounting	Universal mounting clip	
	Warranty	2 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
9	Headset with microphone		
	Equipment usage	The Headset with microphone will be distributed to the staff and members of the Equality Council to be used with the workstations.	
	Frequency response	20Hz to 20kHz (Headset); 100Hz to 16kHz (Microphone)	
	Features	Noise cancelling microphone; On-ears controls	20
	Connection	USB - A port; compatible with Windows 10	
	Warranty	2 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	
10	Video conferencing system		
	Equipment	The equipment will be used in a conference room of the Equality	

usage	Council for online conference calls and meetings.	1
Camera resolution	Ultra-HD imaging system supports: <ul style="list-style-type: none"> ● 4K, 1440p, 1080p, 900p, 720p, and SD at 30fps ● 1080p, 720p at 30fps and 60 fps 	
Field of view	min. 90° (diagonal); min 80° (horizontal)	
Features	Autofocus; Motorized pan, tilt and zoom; Remote control; Video mute/unmute LED indicator	
Mounting	Mounting Kit with cable retainers for all units are included	
Speakers	min. 2 high-performance speakers	
Mic pod	min. 2 microphones with 90Hz – 16kHz frequency response; Background noise suppression; Mute button	
Compatibility and Certifications	Certified for Skype for Business and Microsoft Teams Zoom Certified Fuze Certified Certified for Google Hangouts Meet Hardware Microsoft Cortana® certified Cisco Jabber® and WebEx Compatible Compatible with BlueJeans, BroadSoft, GoToMeeting, Video, and other video conferencing, recording, and broadcasting applications that support USB cameras	
Warranty	2 Years official warranty by Manufacturer. Time and type of warranty must be checked on the official website of the manufacturer.	

6 CRITICAL CONSIDERATIONS

6.1 Assumptions

- Microsoft licences for workstations and for laptops, should be already included.

6.2 Constraints

- All necessary workplace environments for the hardware devices will be made available by the beneficiary institution. In case of change of premises, the institution will take charge of moving and re-installing the equipment;

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