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

**Contract Title: Equipping Operating Structure for Operational Programme Human Resources Development**

**Lot 1: Computers and Accessories (ICT Equipment) p 1 / 22**

**Publication reference :** OP HRD 2012-2013/MNE/TA 4.2/3

**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.

**General Requirements:**

The prices inserted into the financial offer shall be the full inclusive price of provision and fitting the relevant pieces of equipment, including all the necessary accessories, cables, installation CDs (if applicable), USB cables (if applicable) and/or parts such as to ensure that the unit is capable of operating to the required technical and quality specifications.

**Unless otherwise specified, the requirements in these Technical Specifications are presented as a minimum standard which the offered goods must meet**.

**Delivery must be at the following institutions:**

|  |  |
| --- | --- |
| **Delivery Address** | **Equipment to be delivered** |
| **Ministry of Labour and Social Welfare of Montenegro**  Directorate for Social and Child Protection  **Adress: Rimski trg 46 (Vektra building), 81000 Podgorica** | **5 notebook computers - type1;**  **1 multifunction laser printer device;**  **1 external hard drive (memory).** |
| **Ministry of Labour and Social Welfare of Montenegro**  Directorate for European Integration, Programming and Implementation of EU Funds  **Adress: Džordža Vašingtona 49, 81000 Podgorica** | **6 notebook computers-type1;**  **2 personal computers (PC) -type 1;**  **1 personal computer for back up- type 2;**  **2 multifunction laser printer device;**  **1 video projector ;**  **1 projection screen;**  **1 A3 printer multifunctional device ;**  **1 digital photo camera;**  **1 dictaphone;**  **1 network Attached Storage (NAS);** |
| **Ministry of Science**  Division for International Programmes and European Integration  **Address: Rimski trg bb (Vektra building), 81000 Podgorica** | **2 personal computers (PC) – type 1;**  **4 notebook computers -type1;**  **1 multifunction laser printer device;**  **2 external hard drive (memory);**  **1 dictaphone.** |
| **Ministry of Education**  Division for International Cooperation and European Integration  **Address: Vaka Đurovića bb, 81000 Podgorica** | **2 notebook computers – type 2;**  **2 multifunction laser printer device;**  **3 external hard drive (memory);**  **1 video projector;**  **1 projector screen ;**  **1 digital photo camera;** |
| **Ministry of Finance**  Directorate for Finance and Contracting of the EU Assistance Funds  **Address: Serdara Jola Piletića bb (TC Palada), 81000 Podgorica** | **4 notebook computers - type1;**  **4 personal computers (PC)- type 1;**  **1personal computer for back up-type 2;**  **1 multifunction laser printer device;**  **1 digital photo camera;**  **1 dictaphone;**  **1 flat TV;**  **1 Network Attached Storage (NAS);** |
| **Ministry of Finance**  National Fund Division  **Address: Serdara Jola Piletića bb (TC Palada), 81000 Podgorica** | **1 notebook computers- type 1** |

**Conformity to regulations and standards:**

Equipment must conform and/or be compatible with standards, or with the commonly accepted best production practices currently in force, including any ISO, IEC or other relevant standards that may apply to each specific category of equipment.

All items and sub-items supplied must comply with all applicable Montenegrin and EU safety standards. Responsibility for obtaining any certificates required for the import and putting into use of equipment supplied rests wholly with the supplier.

**LOT 1 – Computers and Accessories (ICT Equipment)**

| **1.**  **Item Number** | **2.**  **Specifications Required** | | | | **3.**  **Specifications Offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation Committee’s notes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **Item name: PERSONAL COMPUTER (PC) – type 1** | | | | | | |
| **Quantity: 8 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Processor** | | No. of cores: 2  Clock speed: 2.6 GHz  Threads: 4  Cache size: 3MB  Instruction set: 64 bit  Support for 32GB of RAM | |  |  |  |
| **Number of Processor:** | | 1 | |  |  |  |
| **RAM Memory:** | | 8 GB DDR3L-1333/1600 | |  |  |  |
| **Hard Disk Drive:** | | 128 GB SSD | |  |  |  |
| **Optical drive:** | | DVD+/-RW, SATA | |  |  |  |
| **LAN:** | | Integrated 10/100/1000 Gigabit Ethernet LAN | |  |  |  |
| **Graphics:** | | On motherboard | |  |  |  |
| **Interfaces:** | | 1 USB 3.0, at least 2 front USB,,Digital port (same as monitor), VGA, Internal card slots, Sound card: Yes | |  |  |  |
| **Keyboard:** | | YU or standard Serbian/Latin keyboard layout, USB | |  |  |  |
| **Mouse:** | | Optical USB | |  |  |  |
| **Display:** | | 22-inch, anti-glare display, 1920x1080 resolution. Integrated speakers. | |  |  |  |
| **Manuals:** | | User manual in Montenegrin or English | |  |  |  |
| **Operating system:** | | Preinstalled licensed Windows 10 Pro 64bit or equivalent | |  |  |  |
| **Warranty:** | | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | |  |  |  |
| **2.** | **Item name: PERSONAL COMPUTER (PC) - type 2** | | | | | | |
| **Quantity: 2 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Processor** | | No. of cores: 2  Clock speed: 3.0GHz  Threads: 4  Cache size: 3MB Instruction set: 64 bit Support for 32GB of RAM | |  |  |  |
| **Number of Processor:** | | 1 | |  |  |  |
| **RAM Memory:** | | 16 GB DDR3 SDRAM | |  |  |  |
| **Hard Disk Drive:** | | 2 x 2 TB, 7200 rpm, SATA, RAID | |  |  |  |
| **Optical drive:** | | DVD+/-RW, SATA | |  |  |  |
| **LAN:** | | Integrated 10/100/1000 Gigabit Ethernet LAN | |  |  |  |
| **Graphics:** | | On motherboard | |  |  |  |
| **Interfaces:** | | 1 USB 3.0, at least 2 front USB,, Digital port (same as monitor),, VGA | |  |  |  |
| **Keyboard:** | | YU or standard Serbian/Latin keyboard layout, USB | |  |  |  |
| **Mouse:** | | Optical USB | |  |  |  |
| **Display:** | | 22-inch, anti-glare display, 1920x1080 resolution. Integrated speakers. | |  |  |  |
| **Manuals:** | | User manual in Montenegrin or English | |  |  |  |
| **Operating system:** | | Preinstalled licensed Windows 10 Pro 64bit or equivalent | |  |  |  |
| **Warranty:** | | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | |  |  |  |
| **3.** | **Item name: NOTEBOOK COMPUTER - type 1** | | | | | | |
| **Quantity: 20 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Processor:** | No. of cores: 2  Clock speed: 3.0 GHz  Threads: 4  Cache size: 3MB  Instruction set: 64 bit Support for 32GB of RAM | | |  |  |  |
| **Number of Processors:** | 1 | | |  |  |  |
| **RAM Memory:** | 4 GB DDR3, 2 slots one empty | | |  |  |  |
| **Hard Disk Drive:** | 240 GB SSD | | |  |  |  |
| **Optical drive:** | DVD+/-RW | | |  |  |  |
| **Communication:** | Ethernet LAN (10/100/1000 NIC) | | |  |  |  |
| **Graphics:** | 1 GB dedicated GDDR5 video memory | | |  |  |  |
| **Audio:** | Stereo speakers, stereo headphone/line out | | |  |  |  |
| **Camera:** | 720p HD webcam integrated in Notebook Screen | | |  |  |  |
| **Wireless:** | 802.11 b/g/n | | |  |  |  |
| **Bluetooth:** | Bluetooth 4.0 | | |  |  |  |
| **Interfaces:** | 3x USB 3.0 ports, VGA, HDMI, stereo microphone in, stereo headphone/line out, power connector, RJ- 45/Ethernet, ExpressCard/34 slot  Card Reader- SD (Secure Digital), MMC (Multimedia Card). | | |  |  |  |
| **Other:** | Touchpad, Keyboard (YU or standard Serbian/Latin ) | | |  |  |  |
| **Bag:** | Included - for 15.6" laptop | | |  |  |  |
| **Display:** | 15,6 " diagonal LED, anti-glare 1920x1080 resolution | | |  |  |  |
| **Operating system:** | Preinstalled licensed Windows 10Pro 64bit or equivalent | | |  |  |  |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  |
| **4.** | **Item name: NOTEBOOK COMPUTER – type 2** | | | | | | |
| **Quantity: 2 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Processor:** | No. of cores: 2  Clock speed: 3.0GHz  Threads: 4  Cache size: 3MB  Instruction set: 64 bit Support for 32GB of RAM | | |  |  |  |
| **Number of Processors:** | 1 | | |  |  |  |
| **RAM Memory:** | 4 GB DDR3, one slot free | | |  |  |  |
| **Hard Disk Drive:** | 120GB SSD | | |  |  |  |
| **Communication:** | Ethernet LAN (10/100/1000 NIC) | | |  |  |  |
| **Audio:** | Stereo speakers, stereo headphone/line out | | |  |  |  |
| **Camera:** | 720p HD webcam integrated in Notebook Screen | | |  |  |  |
| **Wireless:** | 802.11 b/g/n | | |  |  |  |
| **Bluetooth:** | Bluetooth 4.0 | | |  |  |  |
| **Interfaces:** | 1x USB 3.0 ports, 2x USB 2.0,VGA, HDMI, stereo microphone in, stereo headphone/line out | | |  |  |  |
| **Other:** | Touchpad, Keyboard (YU or standard Serbian/Latin ) | | |  |  |  |
| **Bag:** | Included - for 11" laptop | | |  |  |  |
| **Display:** | 11" diagonal LED, anti-glare 1366x768 resolution | | |  |  |  |
| **Operating system:** | Preinstalled licensed Windows 10Pro 64bit or equivalent | | |  |  |  |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  |
| **5.** | **Item name: A3 PRINTER / MULTIFUNCTIONAL DEVICE** | | | | | | |
| **Quantity: 1 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Page size:** | A3 | | |  |  |  |
| **Print mode:** | black/white | | |  |  |  |
| **Printing speed:** | 20 ppm (A4 format) | | |  |  |  |
| **Duplex:** | Automatic duplex | | |  |  |  |
| **Print Resolution:** | 600 x 600 dpi | | |  |  |  |
| **Monthly duty cycle** | 60.000 pages | | |  |  |  |
| **Automatic Document Feeder (ADF)** | Installed | | |  |  |  |
| **Scan** | Colour & black/white | | |  |  |  |
| **Cartridges:** | 1 toner set included | | |  |  |  |
| **Connectivity:** | USB 2.0 port, Integrated 10/100/1000 Ethernet LAN | | |  |  |  |
| **RAM Memory:** | 128 MB | | |  |  |  |
| **Operating system:** | Supported Windows 10 or equivalent | | |  |  |  |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  |
| **6.** | **Item name: MULTIFUNCTION LASER PRINTER DEVICE** | | | | | | |
| **Quantity: 7 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Page size:** | A4 | | |  |  |  |
|  | **Print mode:** | Black&white / colour | | |  |  |  |
| **Printing speed:** | 25ppm | | |  |  |  |
| **Duplex:** | Automatic duplex | | |  |  |  |
| **Resolution:** | Printing: 1000 x 1000dpi  Copying: 600 x 600dpi | | |  |  |  |
| **Cartridges:** | 1 toner set (CMYK) included, 2000 pages (based on ISO/IEC 19752) | | |  |  |  |
| **Tray:** | 2 trays | | |  |  |  |
| **Connectivity:** | USB 2.0 port | | |  |  |  |
| **Memory:** | 100 MB | | |  |  |  |
| **Monthly duty cycle:** | 20000 pages | | |  |  |  |
| **Scanner specifications:** | Scanner type: Flatbed, Automatic document feeder (ADF); Colour scanning supported; Scan file format supported: JPEG, TIF, PDF, Scan resolution, optical: 1200 dpi; Automatic document feeder scan speed: 15 ppm | | |  |  |  |
| **Operating system:** | Supported Windows 10 or equivalent | | |  |  |  |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  |
| **7.** | **Item name: VIDEO PROJECTOR** | | | | | | |
| **Quantity: 2 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Projection technology:** | LCD, DLP or LED | | |  |  |  |
| **Brightness:** | 3000 ANSI Lumens (standard), 2400 ANSI Lumens (ECO) | | |  |  |  |
| **Contrast ratio:** | 3000: 1 | | |  |  |  |
| **Light emitter life (Lamp life):** | 3000 Hours | | |  |  |  |
| **Resolution:** | Native XGA (1024 x 768) | | |  |  |  |
| **Projection mode:** | Font, Rear, Front-Ceiling, Rear-Ceiling | | |  |  |  | |
| **Audio:** | One Internal Speaker with 2 watts Output | | |  |  |  | |
| **Remote control:** | IR remote control with laser pointer | | |  |  |  | |
| **Digital zoom:** | 2x | | |  |  |  | |
| **Input interface:** | Analog RGB/Component Video (D-sub) x 1; Composite Video (RCA) x 1, S-Video (Mini DIN) x 1; HDMI/MHL (Video, Audio, HDCP) x 1; PC Audio (stereo mini jack) x 1 | | |  |  |  | |
| **Output interface:** | Analog RGB (D-sub) x 1; PC Audio (Stereo mini jack) x 1; | | |  |  |  | |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  | |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  | |
| **8.** | **Item name: PROJECTION SCREEN** | | | | | | | |
| **Quantity: 2 pcs** | | | |  |  |  | |
| **Manufacturer’s name:** | | | |  |  |  | |
| **Product type, model:** | | | |  |  |  | |
| **Size:** | 180 x 180cm  (Max. 250 x 250 cm) | | |  |  |  | |
| **Type:** | Tripod | | |  |  |  | |
| **Type surface:** | high contrast projection | | |  |  |  | |
| **Colour:** | Matte white surface | | |  |  |  | |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  | |
| **9.** | **Item name: EXTERNAL HARD DRIVE** | | | | | | | |
| **Quantity: 6 pcs** | | | |  |  |  | |
| **Manufacturer’s name:** | | | |  |  |  | |
| **Product type, model:** | | | |  |  |  | |
| **Interface:** | USB 3.0 | | |  |  |  | |
| **System:** | AntiShock, back up software | | |  |  |  | |
| **Capacity:** | 1 TB | | |  |  |  | |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  | |
| **10.** | **Item name: FLAT TV** | | | | | | | |
| **Quantity: 1 pcs** | | | |  |  |  | |
| **Manufacturer’s name:** | | | |  |  |  | |
| **Product type, model:** | | | |  |  |  | |
| **Size:** | 42-inch | | |  |  |  | |
| **Resolution:** | HD video 1080p | | |  |  |  | |
| **Backlight:** | LED | | |  |  |  | |
| **Connectivity:** | WiFi integrated | | |  |  |  | |
| **Technology:** | DVB-T2 | | |  |  |  | |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  | |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  | |
| **11.** | **Item name: DICTAPHONE** | | | | | | | |
| **Quantity: 3 pcs** | | | |  |  |  | |
| **Manufacturer’s name:** | | | |  |  |  | |
| **Product type, model:** | | | |  |  |  |
| **Capacity:** | | | 4 GB internal storage, with Expandable microSD up to 64GB |  |  |  |
| **Connectivity:** | | | USB, microphone input |  |  |  |
| [**Recording format**](https://www.google.me/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwi7oKmG143LAhUBPywKHZfPACAQFggZMAA&url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FRecording_format&usg=AFQjCNFfk7xzCoMiu_ZDqOgszKWl5ZKKOQ&bvm=bv.114733917,d.bGg)**:** | | | WMA / MP3 |  |  |  |
| **Recording time:** | | | 1600 h (LP) |  |  |  |
| **Battery:** | | | 2x AAA |  |  |  |
| **Other:** | | | built-in mono microphone, adjustable playback speed, Low-Cut filter, voice filter |  |  |  |
| **Warranty:** | | | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions |  |  |  |
| **12.** | **Item name: DIGITAL PHOTO CAMERA** | | | | | | |
| **Quantity: 3 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Sensor resolution:** | 16 Mpixel | | |  |  |  |
| **Sensitivity:** | ISO AUTO 100-2500 | | |  |  |  |
| **Optical zoom:** | 20 x optical zoom | | |  |  |  |
| **Display:** | LCD 3- inch diagonal | | |  |  |  |
| **Manuals:** | User manual in Montenegrin or English | | |  |  |  |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  |
| **13.** | **Item name: NETWORK ATTACHED STORAGE (NAS)** | | | | | | |
| **Quantity: 2 pcs** | | | |  |  |  |
| **Manufacturer’s name:** | | | |  |  |  |
| **Product type, model:** | | | |  |  |  |
| **Number or bays:** | 4 | | |  |  |  |
| **Hard disk drive installed:** | 2 x 2 TB, 7200 rpm, SATA | | |  |  |  |
| **LAN:** | Integrated 10/100/1000 Gigabit Ethernet LAN | | |  |  |  |
| **Memory** | 1 GB | | |  |  |  |
| **Interfaces:** | min 1 x USB 3.0 | | |  |  |  |
| **Operating system:** | Preinstalled, licensed | | |  |  |  |
| **Warranty:** | One year after provisional acceptance in accordance with the conditions laid down in Article 32 of General Conditions | | |  |  |  |