

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

**Contract title:** Supply of IT Equipment for the Strengthening Capacities of the Audit Authority

**Publication reference:** 11SER01/06/31

Column 1-2 should be completed by the Contracting Authority  
Column 3-4 should be completed by the Contractor  
Column 5 is reserved for the evaluation committee

Annex III - the Contractor's technical offer

The Contractors 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 Contractor),
- Column 3 is to be filled in by the Contractor and must detail what is offered (for example the words "compliant" or "yes" are not sufficient)
- Column 4 allows the Contractor to make comments on his 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 offered specifications.

## ***Annex II.A General Technical Specifications***

**Project Title:** Supply of IT Equipment for the Strengthening Capacities of the Audit Authority

**Publication Reference:** IISER01/06/31

### **Description of the project**

The subject of the contract is the delivery, installation, putting into operation, inspection, testing and training services by the Contractor of the specified goods for **Audit Authority Office of EU Funds** as the Beneficiary.

The Beneficiary and therefore the delivery address for all goods and services defined in this tender is:

**Kancelarija za reviziju sistema upravljanja sredstvima Evropske unije**

**Vlada Republike Srbije**

**Nemanjina 4, 11000 Beograd**

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**Audit Authority Office of EU Funds**

**Government of the Republic of Serbia**

**Nemanjina 4, 11000 Beograd**

The Incoterm applicable shall be DDP<sup>1</sup> ("Free Domicile") excluding VAT and other import/custom duties and taxes, with completion of delivery within 2 months after the Commencement Date.

### **Technical requirements**

All equipment shall be provided complete with the necessary accessories and/or parts such as to ensure that the unit/system is capable of operating to the required technical and quality specifications. All specifications details listed for each item are the minimum requirements. Any improvements on the specifications or additional features offered should be clearly identified in the Contractor's offer.

### **Power:**

The mains supply voltage in Serbia is 220 V (single-phase) and 380 V AC (three-phase) with neutral, 50 Hz nominal. In addition to power black-outs, the quality and stability of the supplied voltage may undergo fluctuations (plus or minus) of 10%, and all equipment must be capable to operate on mains supply voltage with such fluctuations. All equipment must be designed for direct connection to the standard single phase/three phase power outlets in Serbia.

### **Environmental:**

<sup>1</sup> DDP (Delivered Duty Paid) - Incoterms 2000 International Chamber of Commerce - <http://www.iccwbo.org/incoterms/id3040/index.html>

All equipment in this tender shall be capable of operating under following temperature, humidity and protection level (as defined in EN 60529): Operating temperature: 10° C- 40° C; Relative Humidity (non condensing): 20% - 80%; IP: 20

**Safety:**

All equipment shall have necessary warnings and interlocks on the modules operating/generating more than 30 Volts AC or DC, in accordance with current IEC and EU standards. The Contractor is responsible for advising of any H&S risks associated with equipment provided and of suitable protective measures

**Equipment:**

The items to be provided should not be hybrids, but designed as a unit and shall have a registered brand name. Because of the variety of equipment comprising the required system/s, interoperability/compatibility requirements shall be strictly observed to ensure the delivery of a turn-key system.

Equipment allowing capacity upgrading must be provided in a way that upgrades can be performed by installing additional capacity, without discarding the already installed capacities.

The Contractor shall furnish, install and commission all equipment, fittings and fixings, including final installation and connection and all miscellaneous items of equipment, fixings and fittings in order that the supplies are left in place tested, fully operational and ready for use.

The contractor is responsible to provide and install, if needed, necessary electrical power and/or LAN network cable(s) (UTP) to connect Server rack items (all rack mountable items in this tender) to the one of the Rack mount Ethernet network switches (Layer 2) and then connect that Rack mount Ethernet switch to the beneficiary's existing LAN network.

The Contractor must provide necessary measures to prevent any damage during delivery and installation stage(s). If damage occurs it must be rectified in an appropriate way by the Contractor. Contractor must keep the work site clean and safe against fire and/or other hazards during any/all delivery and installation stage(s) until formal acceptance.

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.

The Contractor must provide evidence of his, or the manufacturer's if the Contractor is not the manufacturer, current Quality Management System Certificate according to ISO 9001 or national equivalent, for each equipment item or group of items.

Contractors are required to demonstrate that offered specifications are responsive to the tender dossier requirements identifying model and manufacturer of each individual item in their technical offer and providing necessary documentation such as catalogues, brochures, manuals and/or booklets that provide detailed technical specifications of equipment being offered thus enabling the contracting authority to check the information provided in the offer.

If not specifically stated otherwise, or not stated at all, all equipment (where compatibility may be an issue) and application software must be compatible with Microsoft Windows 8 and Microsoft Windows Server 2008 R2 server operating systems respectively.

All software that is delivered in this tender (such as operating system and application software) must be licensed to the beneficiary of this tender (**Audit Authority of the Republic of Serbia**) that will allow trained personnel of the beneficiary to perform software installation, update/upgrade, repair/debug and/or diagnosis/report activities without supplier assistance in the future.

In the case of printers and photocopiers in this tender it is acceptable to achieve paper input capacity asked by combining standard and additional paper input trays, but contractor must clearly state that in the offer.

Where equivalency of offered item against the item's asked specification shall be subject to technical evaluation, the respective documentation of equivalency, and - if appropriate - an assessment by an independent party shall be provided with the offer.

### **Visibility requirements**

All equipment must have a durable self-adhesive EU visibility logo.

The Contractor shall produce a draft of the layout and submit it for approval by the Contracting Authority prior to production/delivery.

The Contracting Authority shall advise the successful bidder on the exact dimension, layout, colour regime and wording/symbols of these self-adhesive stickers upon contract signature.

The Contractor will provide to the Project Manager documentary proof signed by Beneficiary that the EU visibility stickers have been submitted as foreseen above as part of their application for Provisional Acceptance. The design of the EU visibility sticker must be approved by Project manager in advance.

All supplies must comply with the generic Visibility policies in force within the scope of external aid contracts financed from the EU general budget; tenderers will thus be aware that certain visibility rules apply and that the guidelines and manuals concerned may be found in the EUROPEAID website, at: [http://ec.Europa.eu/europeaid/work/visibility/index\\_en.htm](http://ec.Europa.eu/europeaid/work/visibility/index_en.htm)

**Technical documents to be delivered during implementation period:**

Each item set of equipment shall be provided with an original set of users' manuals (printed and / or on a CD/DVD) for all parts of the equipment. These manuals shall be supplied in Serbian and/or English languages.

The obligatory documents for the provisional acceptance.

- Original certificate of origin
- Warranty document, signed and stamped by the manufacturer and/or the supplier
- The Contractor should prove that the equipment proposed is produced by a manufacturer who is accredited by ISO 9001 or an equivalent national standard.

No provisional acceptance can be pronounced without the presence of the complete set of documents. These documents or the declarations for the provision of the documents should be delivered with the bid.

**Warranty:**

The Contractor should warrant that all items delivered shall be free of defects in materials and workmanship for a period of 1 (one) years after provisional acceptance and that in case of reported item malfunction would repair or replace the product at no charge.

Warranty for all items in this tender must be on **"collect and return"** basis, i.e. if an item cannot be repaired on site, the Contractor should organize the transport from the beneficiary's premises to the Contractors service location at its own expense, repair/replace it and return it back to the beneficiary.

The technical offer shall include an **information** of how the warranty will be provided including name of the service organization, contact person(s), postal address, telephone and facsimile number and e-mail address.

**Annex II.B Technical Specifications + Technical Offer****Contract title:** Supply of IT Equipment for the Strengthening Capacities of the Audit Authority**Publication reference:** 11SER01/06/31**LOT 1**

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1	<b>Item name: Notebook</b>  Quantity: 16 pcs <ul style="list-style-type: none"> <li>• Processor: mobile class CPU with minimum 2 (two) cores, 64 bit technology compatible, running at minimum at 2500 MHz native frequency, with minimum of 3 MB of total CPU cache (sum of L1+L2+L3).</li> <li>• Graphics: integrated, minimum 256MB either dedicated or shared memory</li> <li>• Screen : minimum 15"</li> <li>• RAM Memory: 4GB</li> <li>• Hard drive: 320 GB, SATA technology</li> <li>• Optical drive: DVD Dual Layer, Read-Write</li> <li>• Connectivity: Gigabit Ethernet LAN, Wireless LAN</li> <li>• Ports &amp; Expansion: minimum 3xUSB 2.0, Express Card slot or PCMCIA, VGA D-Sub</li> </ul>			



1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>connector for external monitor</p> <ul style="list-style-type: none"> <li>• Integrated microphone and speakers</li> <li>• Docking connector</li> <li>• Wireless Optical Mouse</li> <li>• Sturdy (heavy duty) carrying case large enough for notebook, its accessories (cables, power adapter etc.) and one additional compartment for documents.</li> <li>• Additional secondary externally mounted high capacity battery for the notebook, either connected through a docking connector or through a media bay (drop-in replacement for DVD device)</li> <li>• External USB flash memory 32 GB</li> <li>• Category 5e UTP patch cable, flexible, sealed connectors, length 5m</li> <li>• Operating System: Microsoft Windows 8 Professional or equivalent, English language users interface, preinstalled and licensed, installation media (DVD) and documentation included, including the latest service pack, patches and all critical updates</li> <li>• Application software: Microsoft Office 2010 Home and Business edition or equivalent, preinstalled with English language</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	user interface <ul style="list-style-type: none"> <li>Fully licensed recovery DVD/CD, All device drivers on DVD/CD</li> </ul>			
2	<b>Item name: PC Workstation with UPS</b> Quantity: 16 pcs <ul style="list-style-type: none"> <li>Mini-Tower or Desktop Case</li> <li>CPU with minimum two cores, 64 bit technology compatible, minimum 3000 MHz, and minimum 3 MB of CPU cache (total value of all level cache combined)</li> <li>RAM memory : minimum 4 GB</li> <li>Hard drive: minimum 500 GB HDD SATA technology</li> <li>Optical drive : internal DVD±R Dual layer</li> <li>Network: 10/100/1000 MBit Ethernet adapter</li> <li>Connectivity: Min 6 x USB v2.0 ports (min. 2 of those located on Front side of the computer case)</li> </ul>			





1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Graphics adapter min. 256MB RAM, DVI or VGA interface</li> <li>• Sound card onboard</li> <li>• Keyboard (PS/2 or USB type)</li> <li>• Optical mouse with scroll wheel (USB or PS/2)</li> <li>• USB memory stick 32 GB</li> <li>• Category 5e UTP patch cable, flexible, sealed connectors, length 10m</li> <li>• Operating System: Microsoft Windows 8 edition or equivalent, English language users interface, preinstalled and licensed, installation media (DVD) and documentation included, including the latest service pack, patches and all critical updates</li> <li>• Application software: Microsoft Office 2010 Home and Business edition or equivalent, preinstalled with English language user interface</li> <li>• Fully licensed recovery CD/DVD, all device drivers on CD/DVD</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Monitor with following features:</li> <li>• Minimum 22" LCD flatscreen</li> <li>• Adjustable height stand</li> <li>• WIDE screen type</li> <li>• contrast 700:1 or better</li> <li>• brightness minimum 250cd/m<sup>2</sup></li> <li>• viewing angle minimum 160/160 degrees</li> <li>• loudspeakers (integrated or add-on)</li> <li>• DVI or VGA video input (must be the same kind as Video card output of the Workstation)</li> <li>• Matching DVI or VGA video cable, shielded, min. 1.8 (6 foot) meters length</li> <li>• Audio cable, min 1.8m length</li> <li>• Power cable that allows this monitor to be connected to a workstation UPS device</li> <li>• UPS with following features:</li> </ul>			

B

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Intelligent Battery Management</li> <li>• Automatic Voltage Regulation</li> <li>• Overload Indicator</li> <li>• Audio alarms for working on batteries and when overload occur</li> <li>• User Replaceable batteries</li> <li>• Nominal input voltage: 220-230 V</li> <li>Input frequency: 50/60 Hz +/- 3 Hz (auto sensing)</li> <li>Input voltage range for main operations: +/- 5%</li> <li>• Output power capacity: minimum 500 VA</li> <li>• USB connection, software drivers for UPS- Microsoft Windows 8 communication and automatic shut-down on power failure</li> <li>• Minimum 3 battery protected outlets</li> </ul>			
3	<p><b>Item name: External USB hard disc drive</b></p> <p>Quantity: 6 pcs</p>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• USB 2.0 or 3.0 interface</li> <li>• NTFS system compatibility</li> <li>• Minimum 2.5TB capacity</li> <li>• USB cable and AC adapter included (if not powered through USB port)</li> </ul>			
4	<p><b>Item name: Server</b> Quantity: 1 pcs</p> <ul style="list-style-type: none"> <li>• Standard 19" Rack mount server</li> <li>• Dual Processor Capable server architecture</li> <li>• Server class CPU with 4 cores, min 2.5 GHz, 10 MB Cache, 64bit Architecture</li> <li>• Minimum 16GB RAM Memory installed, Upgradeable to minimum 32 GB</li> <li>• SAS Hardware supported RAID 0, 1, 1+0, 5 Controller with battery backed cache</li> <li>• Minimum 6 pcs SAS or SATA Hot Plug/Swap Hard Disk Shelf / Cage Storage System</li> <li>• Delivered with:</li> <li>• 2 x (minimum) 140 GB 10k rpm SAS HDD Hot Plug / Swap (configured as RAID 1) for operating system</li> </ul>			

3

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• 3 x (minimum) 400 GB 10k rpm SAS HDD Hot Plug / Swap (configured as RAID 5) for data</li> <li>• Optical drive minimum: Combo DVD/CD-RW</li> <li>• 3 x PCI Express (Peripheral Component Interconnect Express) Expansion Slots</li> <li>• Dual embedded 10/100/1000 Mbps auto-sensing Ethernet</li> <li>• Minimum 2 USB 2.0 connections</li> <li>• Delivered with two Hot-plug Redundant Power Supplies</li> <li>• Microsoft Windows Server 2008 R2 Standard Edition or equivalent, 30 CAL licenses or equivalent, preinstalled and licensed, installation media (DVD) and documentation included, including the latest service pack, patches and all critical updates</li> <li>• Rack mounting kit</li> </ul>			
5	<p><b>Item name: Data Storage</b> Quantity: 1</p> <ul style="list-style-type: none"> <li>• Standard 19" Rack mount storage</li> <li>• Minimum 8 hot-pluggable SAS or SATA</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>or SSD Hard Disk Drives (HDDs) supported</p> <ul style="list-style-type: none"> <li>• Support for RAID levels 0, 1, 5, 6, 10</li> <li>• Minimum 6 x 1TB HDD installed and configured as RAID 6</li> <li>• Minimum 2x Gigabit RJ-45 Ethernet port</li> <li>• Delivered with two Hot-plug Redundant Power Supplies</li> <li>• Rack mounting kit included</li> <li>• Support for TCP/IP, Microsoft Active Directory, IP access control, Access protection system (with password)</li> <li>• Fully compatible with Windows 2008 R2 server</li> <li>• Configured (with supplied software if necessary, and all cables) and connected to network/server to work as backup for data stored on Server, with minimum daily scheduled backup</li> </ul>			
6	<p><b>Item name: Rack mount UPS</b> Quantity: 1 pcs</p> <ul style="list-style-type: none"> <li>• Standard 19" Rack Mount UPS</li> <li>• Intelligent Battery Management,</li> <li>• Load Meter</li> </ul>			



1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Automatic Voltage Regulation</li> <li>• Overload Indicator</li> <li>• Audible alarms for working on batteries and overload</li> <li>• User Replaceable batteries</li> <li>• Communication port to connect with server</li> <li>• Nominal input voltage: 220-230 V</li> <li>• Input frequency: 50/60 Hz +/- 3 Hz (auto sensing)</li> <li>• Input voltage range for main operations: minimum +/- 5%</li> <li>• Output power capacity: not less than 2500 VA</li> <li>• Waveform type: True (Pure) Sine wave</li> <li>• UPS-Server(s) connection must be compatible with Microsoft Windows 2008 R2 server communication (software, drivers etc.), and configured for automatic shut-down of both servers with logged user notification (as explained in Item: Installation and training)</li> <li>• UPS must have support for future installation of network management module (UPS management trough Ethernet network, via RJ45 connection)</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Minimum of 8 battery protected sockets.</li> <li>• Software for management of the UPS in accordance with server's operating system (compatible with Microsoft Windows 2008 R2 Server)</li> </ul>			
7	<p><b>Item name: Rack mount Ethernet network switch (Layer 2)</b></p> <p>Quantity: 2 pcs</p> <p>24 port 10/100/1000TX stackable managed Gigabit Ethernet switch with:</p> <ul style="list-style-type: none"> <li>• Min 10 Gbps Switch fabric</li> <li>• Min. MAC addresses 8K</li> <li>• Min. Buffer Memory 16MB</li> <li>• Minimum 24 x RJ-45 10/100/1000TX ports</li> <li>• Minimum 2x SFP slots</li> <li>• Broadcast Storm Control</li> <li>• Half/Full Duplex</li> <li>• Auto-negotiation</li> <li>• Integrated stacking modules</li> <li>• Supports minimum 128 VLANs</li> </ul>			

B



1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• VoIP Support</li> <li>Network management support: <ul style="list-style-type: none"> <li>• SNMP support (MIB, Bridge MIB, Remote network MIB, Private MIB)</li> </ul> </li> <li>Compliant with: <ul style="list-style-type: none"> <li>• 10T Ethernet, 100TX Ethernet, 1000T Ethernet, 1000TX Ethernet, Link Aggregation, VLAN Tagging, IGMP, BootP, DHCP, RMON</li> <li>• Port Security</li> <li>• Port Mirroring</li> </ul> </li> <li>o Voltage 220-240V</li> <li>o Frequency 50-60Hz</li> <li>o Internal power supply, with power cord appropriate for the Serbian sockets</li> <li>o Rack Mounting Kit</li> </ul>			
8	Item name: <b>Server rack</b> Quantity: 1 pcs <ul style="list-style-type: none"> <li>• Standard industry computer 19" rack</li> <li>• Floor standing type</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Rack Height: 42U</li> <li>• Rack Depth min 1000mm</li> <li>• Front and back door perforated for better air circulation</li> <li>• Minimum 2 air ventilators with user adjustable temperature switch for forced air flow inside the rack</li> <li>• Lockable doors, front and back</li> <li>• Removable side panels</li> <li>• Cable access holes on top and bottom of the rack</li> <li>• Power distribution unit for minimum of 8 devices with all necessary cables to connect to UPS and devices in rack</li> <li>• 10 pcs UTP patch cables Category 5e length 3 meters, sealed connectors</li> <li>• 10 pcs UTP patch cables Category 5e length 2 meters, sealed connectors</li> <li>• 10 pcs UTP patch cables Category 5e length 1 meter, sealed connectors</li> <li>• Rack mounted 17" Flat Panel Monitor TFT monitor ("TFT drawer"), rack-mountable; with keyboard and pointing device</li> <li>• Rack mounted 4 port KVM (keyboard – video – mouse) device, delivered with</li> </ul>			

3

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>appropriate set of cables for connection to "TFT drawer", plus 4 set of KVM cables compatible with keyboard, video and mouse connectors on Item nr. 4 "Server"</p> <ul style="list-style-type: none"> <li>• Audible temperature alarm ("siren") triggered on temperature in the server room, in case of cooling system failure in the server room. Alarm trigger temperature must be adjustable either electronically or mechanically. Alarm speaker/ siren must be mounted outside the server room, and montage material as well montage should be included in the price.</li> </ul>			
9	<p><b>Item name: Black and white A4 laser printer</b></p> <p>Quantity: 4 pcs</p> <ul style="list-style-type: none"> <li>• Paper formats: A4, A5, A6, B5, B6, Envelopes, custom paper size</li> <li>• Laser technology, Black and White</li> <li>• Printing speed A4: minimum 30 ppm</li> <li>• First-page-out: maximum 10 seconds</li> <li>• Resolution: 1200 x 1200 dpi</li> <li>• Minimum PCL5e compatible</li> <li>• Memory: minimum 128 MB</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Paper input capacity: minimum 500 paper sheets (in all trays, combined)</li> <li>• Paper output bin capacity: minimum 100 sheets of paper.</li> <li>• Duplex printing in hardware supported</li> <li>• Connectivity: 10/100 Mbps Ethernet and USB 2.0 connection, configured and installed as a network printer</li> <li>• Connection cables for all available connections</li> <li>• All drivers on CD / DVD</li> </ul>			
10	<p><b>Item name: Color A4 laser network printer</b></p> <p>Quantity: 2 pcs</p> <ul style="list-style-type: none"> <li>• Paper formats: A4, A5, A6, B5, B6, Envelopes, custom paper size</li> <li>• Print speed:               <ul style="list-style-type: none"> <li>○ 20 ppm Black and white (minimum)</li> <li>○ 20 ppm Color (minimum)</li> </ul> </li> <li>• Minimum hardware print resolution 600 x 600 dpi</li> <li>• Duplex printing in hardware supported</li> <li>• Minimum 256 MB installed memory</li> <li>• Minimum 500 Sheets of paper in input</li> </ul>			

3

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	trays (combined or single tray) <ul style="list-style-type: none"> <li>• PCL 6, PostScript Level 3 emulation</li> <li>• Connectivity 10/100 Mbps Ethernet and USB port</li> <li>• Cables for all standard connections</li> <li>• All driver software on CD / DVD</li> </ul>			
11	<b>Item name: Scanner A4 with ADF</b> Quantity: 2 pcs <ul style="list-style-type: none"> <li>• ADF minimum 50 sheet capacity</li> <li>• minimum ADF speed 20ppm simplex, 30ipm duplex at 300dpi B&amp;W</li> <li>• min. 600dpi scan resolution</li> <li>• minimum 1000 pages daily scan capacity</li> <li>• Paper double feed detection</li> <li>• USB connection</li> <li>• Compatible with Windows 8</li> <li>• All software and drivers delivered on CD/DVD</li> </ul>			
12	<b>Item name: Portable Scanner</b> Quantity: 10 pcs <ul style="list-style-type: none"> <li>• Powered trough USB port, no need for external AC Power, able to work off-site</li> <li>• Portable</li> <li>• sheet feed duplex scanner</li> <li>• ADF 20 sheet capacity, minimum</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• minimum ADF speed 10ppm B&amp;W and 5ppm Color at minimum 300dpi</li> <li>• minimum 600dpi scan resolution</li> <li>• 500 pages daily scan capacity</li> <li>• USB connection</li> <li>• Compatible with Windows 8</li> <li>• Delivered with all cables, adapters, carrying bag, and software/drivers on a CD/DVD.</li> </ul>			
13	<p>Item name: <b>Fax laser printer</b> Quantity: 2 pcs</p> <ul style="list-style-type: none"> <li>• Paper formats: A4, custom paper size</li> <li>• Min. 50 pages ADF</li> <li>• Paper Capacity: min. 250 pages input, min. 100 pages output</li> <li>• Laser technology, Black and White</li> <li>• Printing speed: minimum 25 ppm</li> <li>• Resolution: 600 x 600 dpi</li> <li>• Memory: minimum 128 MB</li> <li>• Fax memory: minimum 512 pages</li> <li>• Connectivity: USB 2.0 connection</li> <li>• Telephone handset included</li> <li>• Connection cables for all available connections</li> </ul>			

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1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Compatible with Windows 8</li> <li>• All drivers on CD / DVD supplied</li> </ul>			
14	<p><b>Item name: Multifunction copier</b> Quantity: 2</p> <ul style="list-style-type: none"> <li>• Black and white printer/copier</li> <li>• Must support user identification while copying (support user copy limit, statistics per user etc.), via keypad entry/card or similar.</li> <li>• Laser technology</li> <li>• Copy/Print paper size A5, A4, A3 paper format</li> <li>• Printing resolution: minimum 1200x1200 dpi, support for PCL5e, PCL6</li> <li>• Copying resolution: minimum 600x600 dpi</li> <li>• Scanning resolution: minimum 600 tpi (Black and White / Color)</li> <li>• Copy/Print speed for A4 format - minimum 35 pages per minute, black and white</li> <li>• Minimum 512 MB of memory</li> </ul>			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• Minimum 40GB Hard drive</li> <li>• Duplexing in hardware supported</li> <li>• Paper Capacity installed: minimum 1000 sheets of paper (total in all trays offered)</li> <li>• Connections               <ul style="list-style-type: none"> <li>○ Network interface: Ethernet (Gigabit/Fast Ethernet)</li> <li>○ USB 2.0 connection</li> </ul> </li> <li>• Supported OS: Windows 8, Windows Server 2008R2</li> <li>• Network Protocols supported, minimum: TCP/IP (LPD/Port9100/IPP/SMB/FTP)</li> <li>• Scanning:               <ul style="list-style-type: none"> <li>○ Support for network TWAIN Driver</li> <li>○ Scan speed for A4 paper size: minimum 50 ipm at 300dpi (Black and White / Color)</li> <li>○ Scanned document destinations supported, minimum: E-Mail (SMTP), Server/PC (SMB, FTP)</li> </ul> </li> </ul>			



1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>○ Address Book: LDAP, Local address book</li> <li>○ File formats supported single and multiple page: TIFF, JPEG, PDF</li> <li>• Automatic document feeder installed</li> <li>○ Automatic document feeder capacity: minimum 100 sheets of paper</li> <li>• Document finishing with stapling device installed (finisher/stapler)</li> <li>• Device stand (floor pedestal)</li> <li>• “Turn key” installation (incl. all necessary device and software configuration works) at beneficiary's premises</li> </ul>			
15	<p><b>Item name: Video projector with screen</b></p> <p>Quantity: 1 pcs</p> <ul style="list-style-type: none"> <li>• Projection technology: LCD, DLP or LED</li> <li>• Brightness: 2500 ANSI Lumens minimum</li> </ul>			

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	<ul style="list-style-type: none"> <li>• Contrast minimum 3000:1</li> <li>• Light emitter life minimum nominal 3000 Hours</li> <li>• Possibility of manual (mechanical or electronic) focus/zoom adjusting and keystone correction</li> <li>• Resolution supported (minimum) : VGA, SVGA, XGA (1024x768)</li> <li>• Connectivity: PC VGA analog (D-SUB) and DVI, S-video, composite video (PAL system), audio-in</li> <li>• Connection cables for all available inputs (VGA, HDML, S-Video, composite, audio etc.).</li> <li>• Built-In Speaker</li> <li>• Projector must be ceiling mounting capable, delivered with ceiling mounting kit and connection cables.</li> <li>• Ceiling mountable, retractable projection screen with dimension not smaller than 180x180 cm and not larger than 250x250 cm</li> </ul>			
16	<p><b>Item name: Laser distance meter</b></p> <p>Quantity: 5 pcs</p> <ul style="list-style-type: none"> <li>• Minimum +/- 2 mm accuracy</li> <li>• Laser operated</li> </ul>			



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	<ul style="list-style-type: none"> <li>• Able to measure distance of minimum 30 meters</li> <li>• Able to perform basic calculations: surface size etc.</li> <li>• Portable, pocket size</li> <li>• Battery operated</li> </ul>			
17	<p><b>Item name: GPS Device</b></p> <p>Quantity: 5 pcs</p> <ul style="list-style-type: none"> <li>• LCD size: min. 4" touch screen</li> <li>• Internal storage memory, minimum 4 GB</li> <li>• Ability to record GPS location (longitude/latitude) in own memory</li> <li>• Memory expansion slot for memory cards</li> <li>• built-in loudspeaker</li> <li>• USB connection</li> <li>• Rechargeable battery</li> <li>• Supplied with all necessary cables and adapters for use / charge in a car (12V)</li> <li>• Navigation software with minimum updated map of Serbia</li> </ul>			
18	<p><b>Item name: Digital photo camera</b></p> <p>Quantity: 10 pcs</p> <ul style="list-style-type: none"> <li>• Minimum 10MP resolution</li> </ul>			

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	<ul style="list-style-type: none"> <li>• Minimum 5x Optical zoom</li> <li>• ISO 800 sensitivity supported</li> <li>• USB connection</li> <li>• Memory card 16GB included</li> <li>• Rechargeable battery and charger included</li> <li>• Carrying soft-pouch included</li> </ul>			
19	<p><b>Item name: Network Attached Storage – NAS device</b></p> <p>Quantity: 2 pcs</p> <ul style="list-style-type: none"> <li>• Either 19" rack mount with rack mounting material provided or stand alone with shelf for 19" rack mounting provided</li> <li>• Minimum 5 hot-pluggable, hot-swap SAS or SATA or SSD Hard Disk Drives supported</li> <li>• Minimum support for following RAID levels 0, 1, 5, 6</li> <li>• Minimum 5 x 1TB HDD installed and configured as RAID 6</li> <li>• 2x Gigabit RJ-45 Ethernet port with support for load-balancing, multiple IP addresses and link failover.</li> <li>• Auto power on when power has been restored (in case of power failure).</li> </ul>			

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	<ul style="list-style-type: none"> <li>Fully supported Microsoft Windows Server 2008R2 or compatible,</li> <li>Support for https protocol, ftp with SSL/TLS, and volume-based Encryption</li> <li>Support for network / IP access control, access control protection system, access list and/or policy based IP access security,</li> <li>Support for email alerts feature</li> <li>Support for automated, scheduled, smart (incremental, differential etc.) secure encrypted remote backup/replication (one NAS to another) over WAN link, either in firmware or through supplied software</li> <li>One device configured (with supplied software if necessary) and connected to network to work as backup for data stored on the Server, with minimum daily scheduled backups, and other device delivered configured as remote secure and encrypted backup device of the first one (network parameters will be supplied to the contractor during installation)</li> </ul>			
20	<b>Item name: Digital video recorder surveillance system with installation</b>			

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	<p>Quantity: 1 pcs</p> <ul style="list-style-type: none"> <li>• Digital video recorder capable to record video from minimum 4 cameras</li> <li>• System should be robust and capable of working in 24x7 environments</li> <li>• Supplied with minimum 22" TFT/LCD screen (monitor)</li> <li>• Support for SATA drives, and supplied with at least 2 GB in hard drive capacity (single or multiple drives)</li> <li>• DVR must support H.264 video compression, and minimum D1 (or 4CIF) recording and playback in minimum 25 frames per second.</li> <li>• DVR system must have VGA and TV (BNC) synchronous video output (PAL system)</li> <li>• DVR must support "smart" video detection such as video loss, movement detection, and camera blank.</li> <li>• DVR must support minimum continuous, manual and motion detection type of recording</li> <li>• Must support password for operation, setup and remote access</li> <li>• System must support video signal loss</li> </ul>			



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	<p>alarm.</p> <ul style="list-style-type: none"> <li>• DVR must support transfer of recorded material to USB memory devices and download through LAN.</li> <li>• DVR should be delivered with 3 cameras, with all necessary connection cables and mounting kit (ceiling or wall).</li> <li>• All cameras will be indoor mounted, high sensitivity, with automatic white balance and should be of high resolution – fully compatible with D1 resolution of the DVR</li> <li>• One camera should be mounted to monitor office entrance, one should monitor down the office corridor, and third one should be installed in the server room, monitoring access to the servers, therefore lens and coverage of the camera offered should be adjusted to the role and position of the camera. This is provisional layout of the camera locations:</li> </ul>			





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21	<p>see illustration provided in the specification of this item.</p> <p><b>Item name: Installation and Training</b> Quantity: 1 pcs.</p> <p><b>Installation:</b></p> <ul style="list-style-type: none"> <li>• All workstations and notebooks shall be installed and activated operating system, application software (incl. Microsoft Office), antivirus software, activated and registered to the beneficiary, joined to AD, in "ready to use" condition.</li> <li>• Rack should be fully assembled, with all rack mountable items in this tender installed inside, connected to network, configured and ready to use. All rack installation material (such as bolts, nuts etc.) and accessories are to be previewed by the Contractor and should be supplied by the contractor and should be included in the price of this item.</li> <li>• Server should be physically installed in the rack, RAID arrays configured (mirroring for System partition, RAID5 for Data partition) Windows 2008 R2 Server or equivalent and antivirus software installed, Active Directory</li> </ul>			

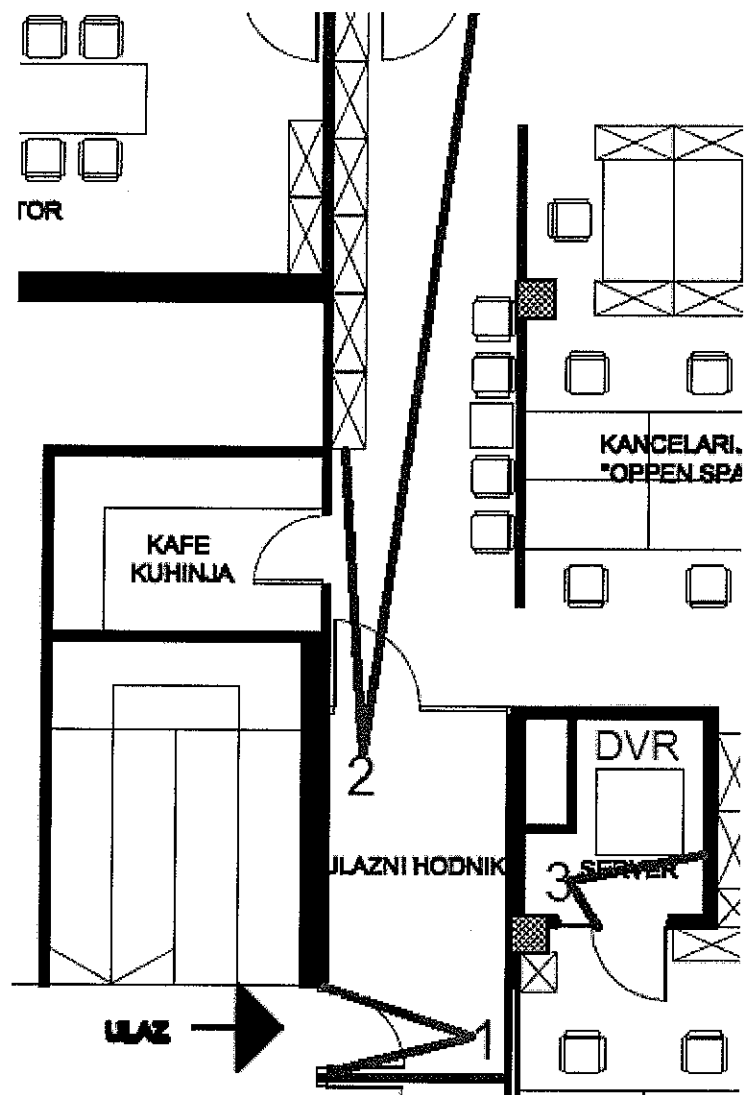
3

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>(AD) configured (most basic model with single domain / site, and both servers as domain controllers), beneficiary's users created (approx. 25 users) in AD, all network printers created and published in AD, network scanners configured and appropriate software/folders installed on server. One common shared drive for all users should be created on server and all users should be given access to it. Also, each user should have created his own private area on the server that only can be accessed by that user.</p> <ul style="list-style-type: none"> <li>• Contractor also must configure automatic Server shutdown of server with connected user notification in case of power failure that last half the time of UPS run time with load level of connected devices in the rack.. If additional hardware / software is needed for this to be achieved, it should be included in the offer for item <b>Server</b> in this tender.</li> </ul> <p><b>Training:</b></p> <p>On-site training, minimum 2 days training for 4 nominated beneficiary staff, on basic Active Directory and LAN administration:</p> <ul style="list-style-type: none"> <li>• How to create user</li> </ul>			

3

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> <li>• How to delete user</li> <li>• How to assign basic user rights in AD</li> <li>• How to create shared folder on server</li> <li>• How to set access rights on shared folder</li> <li>• How to create and maintain AD published network printer/scanner</li> <li>• How to connect/disconnect AD user to a specific network printer/scanner</li> <li>• How to scan on networked scanner/multifunction printer/copier</li> </ul>			





13

