

ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

Contract title: Support to strengthening fight against trafficking in Human Beings

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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 offered specifications.

1. PROJECT DESCRIPTION

The purpose of this contract is purchase of vehicles, office furniture, IT equipment, audio-video equipment, as well as surveillance equipment for the Serbian Police authorities, in order to improve their capacities in fight against the trafficking of human beings (THB).

Department for Contracting and Financing of EU Funded Programmes (CFCU) of the Ministry of Finance of the Republic of Serbia is the Contracting Authority responsible for this project. The beneficiary of this Contract (Beneficiary) is the Ministry of Interior.

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2. DELIVERY LOCATIONS

2.1 The delivery addresses for the equipment which is subject of this contract is specified under point 4 of this technical specification/offer. The Supplier shall agree the installation schedule with the Contracting Authority in consultation with the Beneficiary. The Beneficiary shall guarantee the Supplier's free entrance to the buildings and relevant room(s) during the installation works. The Supplier shall be fully responsible for its equipment until the provisional acceptance has been issued.

3. GENERAL PROVISIONS

3.1. General Requirements

- 3.1.2. All the equipment shall be provided brand new, complete with the necessary accessories and/or parts such as to ensure that the unit is capable of operating to the required technical and quality specifications.
- 3.1.3. Equipment which allows upgrading of capacities shall be provided in such a way that upgrades can be performed by installing additional capacity without discarding the already installed capacities.

3.2. Power supply standard

Unless otherwise stated in the Detailed Technical Specifications, all electrical equipment should be powered with 220V, 50Hz AC. All devices must be compliant with Serbian and European Union electrical safety standards and follow EEC CE Marking Directive.

3.3. Post-Completion Documentation

Where required, the Contractor will be responsible for preparation of Technical Post-Completion Documentation describing the system implemented. It should include graphical description of interconnection between various elements, all hardware and software configuration details, start-up scripts and a description of mandatory maintenance procedures to be followed by the Beneficiary during day-to-day operation of the equipment. The Post-completion Documentation will be subject to approval of the Contracting Authority.

ANNEX II – TECHNICAL SPECIFICATIONS

LOT 4: Supply of IT Peripherals and Advanced Optoelectronic Equipment

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1	<p>Printer/Copier/Scanner</p> <p>Quantity: 1</p> <ul style="list-style-type: none"> - Printer/copier <ul style="list-style-type: none"> o colour o paper sizes: A3, A4, A5, B4, B5 o print/copy resolution: 600 dpi o Copy/print A4 colour speed at least 30ppm o copy resolution: 600 dpi o ADF capacity at least 100 sheet o Total capacity of paper trays at least 1000 sheets o duplex printing/ copying - Scanner <ul style="list-style-type: none"> o ADF scanning speed: at least 25 originals per minute o scanning resolution: 600 dpi o scanning sizes supported – at least: A3, A4, A5 o scan destinations: scan to e-mail, scan to network folder o both PDF and JPEG formats must be supported while scanning from front panel to network folder and to e-mail 	<p>Manufacturer:</p> <p>Model:</p>		

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Connectivity <ul style="list-style-type: none"> o USB 2.0 o 10/100BaseT o All necessary interconnection cables including power cable, USB cable and 5 meter UTP cat 5e or 6 patch cord - Consumables: <ul style="list-style-type: none"> o Set of toner cartridges and other necessary elements (e.g. drums, fusers, etc.) necessary for printing at least 75 000 pages in accordance with ISO/IEC 19752. o Above cartridges and elements provided must be the same brand as printer manufacturer. - Fully compatible with operating system on delivered laptops and desktops. Appropriate printer drives must be included. 			
2	<p>Printer/Copier/Scanner, Black and White Quantity: 24</p> <ul style="list-style-type: none"> - Printer/copier <ul style="list-style-type: none"> o Print technology: laser monochrome o Supported paper sizes: A4, A5, B4, B5 o Copy/print resolution: 600 dpi o Copy/print A4 speed at least 30ppm o Total capacity of paper trays at least 500 sheets 	<p>Manufacturer: Model:</p>		

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Scanner <ul style="list-style-type: none"> o scanning resolution: 600 dpi o original size: A4, A5 o two-sided scanning o scanning to e-mail o document feeder with minimum capacity of 25 pages - Connectivity <ul style="list-style-type: none"> o USB 2.0 o 10/100BaseT o All necessary interconnection cables including power cable, USB cable and 5 meter UTP cat 5e or 6 patch cord - Consumables: <ul style="list-style-type: none"> o Set of toner cartridges and other necessary elements (e.g. drums, fusers, etc.) necessary for printing at least 50 000 pages in accordance with ISO/IEC 19752. o Above cartridges and elements provided must be the same brand as printer manufacturer. - Compatibility with operating system provided with PCs and laptops. Appropriate printer drives must be included. 			
3	<p>High Capacity B/W Printers</p> <p>Quantity: 11</p> <ul style="list-style-type: none"> - Printing A4 speed min. 40 ppm 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Supported media size: at least. A4 - Min. black/white printing resolution min. 600x600 dpi - Automatic two-sided printing - At least 2 paper trays of minimum 250 sheets capacity each - Connectivity: <ul style="list-style-type: none"> o Ethernet adapter min. 1 Gpbs o WLAN 802.11 g/n o Min. 1 USB 2.0 port - All necessary interconnection cables including power cable, USB cable and 5 meter UTP cat 5e or 6 patch cord <p>Consumables:</p> <ul style="list-style-type: none"> o Set of toner cartridges and other necessary elements (e.g. drums, fusers, etc.) necessary for printing at least 50 000 pages in accordance with ISO/IEC 19752. o Above cartridges and elements provided must be the same brand as printer manufacturer <ul style="list-style-type: none"> - Compatibility with operating system provided with PCs and laptops. Appropriate printer drives must be included. 			
4	<p>Desktop Scanner with ADF</p> <p>Quantity: 8</p> <ul style="list-style-type: none"> - Flatbed colour image scanner 	<p>Manufacturer:</p> <p>Model:</p>		

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - ADF capacity at least 50 sheets - Optical Resolution min. 600 dpi - One side scanning speed at 200dpi:at least 20 ppm - Scanning area A4 - Duplex - Connectivity: <ul style="list-style-type: none"> o Min. 1 USB 2.0 port o All necessary interconnection cables including power cable, USB cable <p>Compatibility with operating system provided with PCs and laptops. Appropriate printer drives must be included.</p>			
5	<p>High Speed Scanner with ADF</p> <p>Quantity: 1</p> <ul style="list-style-type: none"> - Flatbed colour image scanner - ADF capacity at least 50 sheets - Optical Resolution min. 600 dpi - One side scanning speed at 200dpi:at least 40 ppm - Scanning area A4 - Duplex - Connectivity: <ul style="list-style-type: none"> o Min. 1 USB 2.0 port o All necessary interconnection cables including power cable, USB cable <p>Compatibility with operating system provided with PCs and laptops. Appropriate printer drives must be included.</p>	<p>Manufacturer:</p> <p>Model:</p>		

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
6	Desktop Projector Quantity: 1 <ul style="list-style-type: none"> - Brightness at least 4000 ANSI lumens - Aspect Ratio: 16:9 - Native Resolution – 1920x1080 - audio speakers at least 10 W mono - Connectivity – at least Analog VGA, HDMI - Supported Video modes at least 720p, 1080i, 1080p 	Manufacturer: Model:		
7	Mobile Projector Quantity: 1 <ul style="list-style-type: none"> - Brightness at least 2500 ANSI lumens - Aspect Ratio: 16:9 or 16:10 - Native Resolution at least 1280x800 - audio speakers - maximum weight: 2.5 kg - Connectivity – at least: <ul style="list-style-type: none"> o Analog VGA, o HDMI o WiFi - Supported Video modes at least 720p, 1080i, 1080p - Carrying bag 			
8	Digital Photo Camera with Lenses Quantity: 3	Manufacturer: Model:		

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Body <ul style="list-style-type: none"> o Full frame o File formats supported: JPEG, RAW o Supporting at least 32 GB memory card, delivered with 2 cards o Video recording format: MPEG-4 AVC/H.264 o sensitivity ISO range at least 100 – 6400 o resolution at least 12 MP o Low Light o LCD screen 3”-3.5” o External Flash Connection o Rechargeable battery o Max shutter speed at least 1/4000 o Focus Type : Auto & Manual - Telephoto Zoom lens <ul style="list-style-type: none"> o focal length range at least 100-400 mm o Maximum Aperture: f/4.5-5.6 o image stabilisation o Autofocus - Wide-angle lens <ul style="list-style-type: none"> o focal length range at least 30 - 70mm o Maximum Aperture: f/2.8 o Autofocus - External flash <ul style="list-style-type: none"> o Distance Range: at least 10m o Recycle Time: max 6 sec 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> ○ Flash-Ready Indicator - Battery charger - Carrying bag 			
9	<p>HD Video Camera</p> <p>Quantity: 5</p> <ul style="list-style-type: none"> - Form Factor: Handheld - Aspect ratio 16:9 - 20 x optical zoom - Video Resolution: HD 1080 - Sensor resolution at least 2.5 megapixel - Low Light - Image Stabilization - LCD screen at least 3" - Recording Media: SD card - Carrying bags for the equipment 	<p>Manufacturer:</p> <p>Model:</p>		
10	<p>Thermal and Night Vision Camera</p> <p>Quantity: 1</p> <ul style="list-style-type: none"> - Handheld camera - Detector Type min. 640 x 480 - E-Zoom at least x 4 (optical or combination optical/digital) - Detect Man (1.8 m × 0.5 m) min. 1000 m - Detect Vehicle (4 m × 1.5 m) min. 3000 m - Power source: battery - Operating time: at least 5 hours - Operating / Storage Temperature min. - 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>-20°C – 35°C / -25°C – 40°C</p> <ul style="list-style-type: none"> - FOV: 6° × 4° or better - Storage for images/video: at least 8 GB - Spare rechargeable batteries 2 pcs - Weight at most 1.6 kg - Carrying bag 			
11	<p>Audio-Video System for Interview Rooms (Turn-Key Solution) Quantity: 3</p> <p>The solution must provide possibility of high quality audio and video recording of the interview performed in the interview room.</p> <p>The cameras must be located in the way minimising blind spots in the room. One of the cameras will cover the central part of the room focusing on the interview desk, the other two will be located in the corners covering the rest of the room. The microphones must be located in the areas of the room allowing for audio recording in the critical places of the room (interview desk (in the central part of the room), child's desk and sofa (in the corners)) as well as ambient of the room.</p> <p>All three solutions must be installed in the rooms (in the Beneficiary premises) which will be of similar size (approx. 16 sq. Meters) and shape (square).</p> <p><u>The ordered solution must be composed of at least following elements:</u></p> <p>a) HD Robotic PTZ Camera with controller (3 piece. per item)</p> <ul style="list-style-type: none"> - Integrated Pan-Tilt 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Pan Range at least $\pm 160^\circ$ - Tilt Range: -30 to 90° or better - CMOS Sensor 1/3" or larger - Optical Zoom : at least 30x - Video Outputs: at least 1 HD-SDI or 3G-SDI - Minimum Illumination: 1.0 Lux or better b) Remote Camera Controller (1 piece. per item) <ul style="list-style-type: none"> o Control over IP of at least 5 cameras o Support for remote control of at least: pan/tilt, zoom, focus, o 3-axis joystick o Same brand as camera c) Video Switcher (1 piece. per item) <ul style="list-style-type: none"> - Video Inputs: at least 4 x HD-SDI /3G-SDI, compliant with offered cameras - Audio input: at least 1 x XLR - Video Outputs: at least 1x SDI type and 1 x HDMI (Multi-View) - Audio Output: SDI embedded - Compliant with the offered Audio console and Video recorder - Monitor at least 21" with embedded speakers and Audio jack for headphones d) Audio Console (1 piece. per item) <ul style="list-style-type: none"> - Input: at least 8 x XLR microphone inputs - At least 8 Microphone Preamplifiers - Output: at least 1 x Aux Sends - Compliant with all offered microphones and video switcher 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>e) Video Studio Recorder (1 piece. per item)</p> <ul style="list-style-type: none"> - Video Inputs: at least 1 x SDI-type compliant with offered video switcher - Audio Input: not necessary -audio embedded in SDI - Built-in LCD display - Recording media: Memory cards (supported at least 32 GB capacity); delivered with at least 2 x memory cards of at least 32 GB each <p>f) Wireless Lavalier Mic System (2 pieces per item)</p> <ul style="list-style-type: none"> - ME 2 Lavalier Microphone: <ul style="list-style-type: none"> o Microphone type: omnidirectional o Microphone Clip - Bodypack Transmitter: <ul style="list-style-type: none"> o Back-Lit LCD o Battery powered, delivered with 2 sets of batteries o Battery life: at least 8 hours o Weight: not more than 170 g - Receiver: <ul style="list-style-type: none"> o DC powered; delivered with AC/DC adapter o Receiver output: balanced XLR <p>g) On-table boundary layer microphone (2 pieces per item)</p> <ul style="list-style-type: none"> - Surface Mount - Cardioid - Output Connectors 1 x 3-Pin XLR 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Sensitivity within range: -28dB - -45 dB h) Modular long gun microphone (2 pieces per item) - Supercardioid, highly directional pickup pattern - Maximum Input Sound Level: 125 dB (THD = 1%) - Frequency response: 40 Hz - 20 kHz (+/- 2.5dB) - Delivered with battery powered powering module: <ul style="list-style-type: none"> o On/Off switch o Battery Life at least 100 hours o XLR output o Delivered with battery i) Modular shotgun microphone (2 pieces per item) - Cardioid Pickup Pattern - Maximum Input Sound Level: 130 dB (THD = 1%) - Frequency response: 40 Hz - 20 kHz (+/- 2.5dB) - Delivered with battery powered powering module: <ul style="list-style-type: none"> o On/Off switch o Battery Life at least 100 hours o XLR output o Delivered with battery j) Headphones (1 piece per item) - Ear Coupling: circumaural 			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<ul style="list-style-type: none"> - Closed Back - Impedance 32 Ohms - Frequency range: 20 Hz (+/-10%) – 20000 Hz (+/-10%) k) Software (as necessary for full control and operation of the delivered solution) <ul style="list-style-type: none"> - Unlimited in time software - Compliant with Windows based PCs l) All cables and connectors necessary for proper operation of the solution 			

4. DISTRIBUTION LIST

LOT 4: Supply of IT Peripherals and Advanced Optoelectronic Equipment

Item No.:	SBPOK/Central unit Belgrade	Belgrade Police Unit	Novi Sad Police Unit	Nish police unit	CHTVP Belgrade	Regional Police Depts.	MoI IT Sector	Grand Total

1	1							1
2						24		24
3	5	2	2	2				11
4	4	2	1	1				8
5	1							1
6	1							1
7	1							1
8	1		2					3
9		1	2	2				5
10	1							1
11	1			1	1			3

Appendix I – Verification operations and warranty conditions

Installation: The Contractor will be responsible for installation, configuration and start-up of the supplies delivered in accordance with the directions provided by the Beneficiary. The Contractor will be also responsible for integration of the supplies delivered with the existing infrastructure, if required by the nature of the supplies provided. The Beneficiary reserves the right to delegate 2 of its employees to actively participate in the installation and configuration phase together with the Contractor's implementation team. The Contractor will be responsible for integration of the supplies delivered with the existing networking infrastructure. This may require the update of the configuration of the existing routers, firewalls and switches.

Contractor will be responsible for installation, configuration and start-up of the server operating systems.

Testing: Items shall be tested during the takeover event, where all the required specifications and features shall be accounted for, and full functionality of the items shall be presented.

Training: No specific training is foreseen for the items stated in this Lot, except for the basic introduction to the items.

Warranty: Warranty for this Lot is 12 months, starting from the date of issuance of Provisional Acceptance Certificate.

Commercial warranty: Commercial warranty for this Lot is minimum 12 months, starting from the date of issuance of Final Acceptance Certificate.