

ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

Contract title: “Supply of Equipment for Development of the Operational Integrated Administration a Control System (IACS) (I phase)” – IPA 2021

LOT 1: IT and other related equipment

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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.

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

LOT 1 IT and other related equipment				
1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.1	<u>Ergonomic pad for mouse (50 pieces):</u> - black, - wrist support, - ergonomic gel or memory foam, - substrate surface material: fabric, - optimised for use with optical and laser mouse, - non-slip surface, - dimension minimum: 240mm x 200mm x 4mm.			
1.2	<u>Standard pad for mouse (185 pieces):</u> - black, - non-slip surface, - substrate surface material: fabric, - optimised for use with optical mouse, - dimension minimum: 350mm x 250mm x 3mm.			
1.3	<u>Microprocessor-controlled charger intended for charging batteries NiMH AA and AAA (10 pieces):</u> - charges up to 4 AA or AAA batteries at the same time, - status indicators, - 4 relevant batteries, - battery capacity: min 1900 mAh, - charging time: 2h - 8h, - type of battery: NiMH.			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.4	<u>Mouse – advanced (40 pieces):</u> - sensor Technology: high precision, - supported operating systems: all, - nominal value resolution: min 8000 DPI, - buttons: multi buttons (Left/Right-click, Back/Forward, Middle click...), - response time: min 1ms, - scroll Wheel: Yes, with smart-shift, - ergonomic shape, - wireless technology required: YES, - sensor: laser, - battery included: yes.			
1.5	<u>Mouse – standard (178 pieces):</u> - sensor technology: high precision, - supported operating systems: all, - nominal value resolution: min 1000 DPI, - gliding with noise reduced, - hyper fast scrolling, - wireless technology required: yes, - buttons: multi buttons, - sensor: laser, - frequency: min 2,4 GHz, - battery included: yes.			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.6	<u>Keyboard (34 pieces):</u> - multimedia buttons supported by all operating systems, - connection: USB, - type: Serbian (YU) Latin keyboard, QWERTY + numerical part, - water spill, - membrane type of buttons (soft touch), - backlighting, - multimedia buttons, - black colour.			
1.7	<u>External hard drive HDD 8 TB (2 pieces):</u> - connection/port: USB Type-C, - interface USB 3.2/USB 3.0, - capacity: minimum 8.000 GB.			
1.8	<u>External hard drive SSD 2 TB (2 pieces):</u> - reading speed: from 1050 MB/s to 2000 MB/s and more, - writing speed: from 1050 MB/s to 2000 MB/s and more, - connection/port: USB Type-C, USB 3.2, - anti-shock system, - capacity: minimum 2.000 GB.			
1.9	<u>Rechargeable battery AA (LR6) (60 pieces):</u> - capacity minimum 1300 mAh, - 1,2 V.			

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1.10	<u>Rechargeable battery AAA (LR6) (40 pieces):</u> - capacity minimum 750 mAh, - 1,2 V.			
1.11	<u>Portable Bluetooth speaker (10 pieces):</u> - connection: bluetooth minimum 5.1, - audio output mode: stereo, - power: min 40 W, - frequency response: 65Hz - 20kHz, - min. 16 hours of battery life, - sound pressure SPL: 80 dB, - 30 W RMS woofer, - 10 W RMS tweeter, - waterproof IP67, - USB port, - support deep bass, - black colour.			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.12	<u>Tablet 11"(16 pieces):</u> - screen size: 11", - android operation system, - resolution minimum 1920 x 1200, - processor Octa Core, RAM memory 8 GB, - internal memory 128 GB, - rear camera minimum 8 Mpix with flash, - Bluetooth minimum 5.1, - connecting to a WiFi network, - battery capacity minimum 7000 mAh, - colour black or grey, - protective flip case, - pen for tablet, - protective glass for the screen, - charger, - charging cable.			
1.13	<u>Case with keyboard for tablet 11"(16 pieces):</u> - colour black, - Bluetooth connection with tablet, - flip case.			
1.14	<u>Smart card reader (120 pieces):</u> - connection: USB 2.0, - supported all operating systems, - cards support: bank cards (eBanking), security elements, cards with certificates, ID cards, driving licenses, health cards.			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.15	<u>Notebook standard (145 pieces):</u> <ul style="list-style-type: none"> - CPU: number of cores min 16, - minimum 2,2 GHz base frequency, new generation, - battery capacity: min 80Wh, - memory (RAM) 32GB, - internal memory type: min DDR5, - disk SSD min 1TB, - screen min 16“, - integrated graphics card resolution min 2560 x 1600, - memory graphical card min. 8GB, - ports: 2x USB A, 2x USB C, 1x HDMI 2.1, - WiFi, LAN (RJ45), - integrated Bluetooth, - audio through 3.5mm port, - numerical part keyboard: yes, - integrated web camera, - microphone, speakers, - operative system: No - colour: black/grey/silver. 			
1.16	<u>Backpack for Notebook for notebook screen 16" to 17,5"(185 pieces):</u> <ul style="list-style-type: none"> - precondition: according to notebook for screen min 16" (see Item 1.15 for adequate offer), - backpack, - colour: black/grey/blue, - waterproof material, - number of pockets: minimum 3. 			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.17	<u>Computer Web camera (35 pieces):</u> - full HD 1080 pix camera: 1080 p/30 fps (1920 x 1080 px), - effective resolution: min 4.0 Mpix, - connection: USB, - autofocus, - automatic low light correction, - built-in microphone: range from 1m, - diagonal field of view: 90°/ 78°/ 65°, compatibility: Windows 10 or later, - colour: black/grey/white.			
1.18	<u>Computer headphones with microphone/mic (170 pieces):</u> - microfon is integrated on headphones, - placement: Over Ear, - form Factor: Over Ear, - audio through 3.5mm jack/port, or USB type C, - Bluetooth or USB connection, - headphone type: binaural, - sensitivity: 91±3dB(A), - frequency response 20Hz - 40kHz, - noise control: active sound isolation (noise-cancelling), - colour: black/grey.			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.19	<u>PC Monitor (170 pieces):</u> - screen size: min 27", - screen type: IPS, - resolution min: 2.560 x 1.440 (QHD), aspect ratio: 16:9, - refresh rate: min 120Hz, - lighting: min 350 cd/m2, - native contrast: 2.000:1, - response time: min 5ms, - FRC: yes, - coating: anti-glare, - ports: 1x HDMI, 1x Display Port, USB A, USB-C - curved screen: no, - cable min 1,2 m for laptop connection (HDMI), - cable min 1,2 m for laptop connection (Display Port), - colour: black/gray/white.			
1.20	<u>Power Bank external batteries (50 pieces):</u> - capacity: 20000 mAh, - connectors: 2 x USB, 1 x USB-C (optional: 1x MicroUSB), - external battery charging port: Micro USB / USB Type C.			
1.21	<u>Mobile projector (1 piece):</u> - DLP projection system, - native resolution 1920 x 1080, - full HD resolution format, - illumination: 3.000- 3.800 ANSI lumens, - image size 70" - 150", - image aspect ratio 16:9.			

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1.22	<u>Presenter (1 piece):</u> - laser wireless pointer, - wireless range: aproximaly 20m, - colour black/gray, - page up/down, - connection: Bluetooth and wireless (2,4 GHz)/ or USB.			
1.23	<u>Panel for mobile projector (1 piece):</u> - type: manual, - tripod stand (no on the wall), - for the floor use, - dimension of panel:min 213cm x 213cm, - picture dimension: min 205cm x 205cm.			
1.24	<u>Smart TV (2 pieces):</u> - screen diagonal: 55 (140 cm), - system: Web OS 23, - refresh rate: min 50 Hz, - ports: minimum 3 x HDMI, 2 x USB, RJ-45, - bluetooth: yes, - LAN connection: yes, - Wi-Fi: Wi-Fi (built-in), - aspect ratio: 16:9, - screen resolution: 4K Ultra HD 3840 x 2160 pix - screen technology: direct LED.			

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1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.25	<u>Monitor ultra-wide (10 pieces):</u> - screen size 49" , - screen curvature 1000R, - aspect ratio 32:9, - resolution 5120 x 1440 (DQHD), - ultra-wide: yes, - screen refresh rate 240 Hz, - response time 1 ms (GTG), - lighting 360 - 450 cd/m2, - static contrast 2500:1, - ports: minimum 2 x HDMI 2.1, 1 x DisplayPort 1.4, 2 x USB-A 3.0.			
1.26	<u>Multifunctional color printer (1 piece):</u> - Function: printing, copy, scan, send, fax, - Format: A3, letter, - ADF: yes, - Speed of printing min. 24 ppm one-side for A4 (min. 12 ppm for A3), min. both-sides 12 ppm, - Automatic two-sided printing/copy/scan, - Resolution of printing min. 600x600dpi, copy and scan min. 600x600dpi, - USB port for printing, scan, - Compatible with all operating systems, - Connection USB, LAN, WiFi, - Display: colour touch panel, - Colour scan: yes, - Input capacity paper min. 200 sheets, - Set of toners included.			

LOT 1 IT and other related equipment				
1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.27	<u>Multifunctional printer Black/White (2 pieces):</u> - Function: printing, copy, scan, send, store, fax, - Format:A4, letter, - Display: colour toch panel, - Speed of printing min.30 ppm one-side, both-sides min.12 ppm, - Resolution of printing min. 600x600dpi, copy and scan min. 600x600dpi, - USB port for printing, scan, - Connection: USB, LAN, WiFi, - ADF, - Display: colour touch panel, - Compatible with all operating systems, - Automatic two-sided printing/copy/scan, - Input capacity paper min.1000 sheets, multi-purpose tray x1, min. 2x510sheets cassettes, - Recommended monthly printing volume min. 20,000 sheets, -Toner included.			
1.28	<u>Set of toners for MFP colour (5 pieces)</u> according to ITEM 1.26, LOT 1			
1.29	<u>Toner for MFP Black/White (5 pieces)</u> according to ITEM 1.27, LOT 1			

LOT 1 IT and other related equipment				
1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.30	<p><u>Smart board 65“ (1 piece):</u></p> <p>Compatible with Android, Windows 11 and Mac iOS; WiFi for fast connector for PC and Mac; CPU Minimum 4-core, minimum 1.5 GHz; RAM Minimum 8 GB; ROM Minimum 64 GB; DISPLAY: Size Minimum 65“; Resolution Minimum 3840 × 2160 px, 4K, Touch screen Capacitive multi-touch; Optical anti-blue light supported; Projection mode App free projection, wired projection etc.; Refresh rate Minimum 60 Hz; Automatic brightness adjustment: Yes; Anti-glare: Yes; SPEAKERS: Frequency domain Minimum 20Hz-20KHz; Quantity Minimum 4; Stereo/audio: Yes; NETWORK: Wi-Fi Yes; Bluetooth Minimum 5.0; LAN Possible; TERMINAL INTERFACE: Video input Minimum 2 x HDMI, 1 x USB Type-C port, 1 x; Video output Minimum 1 x built-in screen, 1 x HDMI; Audio input Minimum 1 x built-in microphone array, 1 x 3.5 mm LINE IN, 2 x HDMI audio input; Audio output Minimum 4 x built-in speaker, 1 x 3.5 mm LINE OUT, 1 x HDMI; Other ports Minimum 2x USB 3.0 (Type A), 1x USB 2.0, 1xUSB type C; MICROPHONE: Sound pickup distance Minimum 7m; View angle Minimum 178; Frequency domain Minimum 20 Hz–20 kHz; Enhanced functions Echo cancellation; gain control and external microphones; CAMERA: Integrated wide angle camera; Support videoconferencing in high resolution; WRITING: Precision Up to ±2 mm; Writing Latency Minimum 35ms; Erasing by hand gestures: Yes; Whiteboard saving mode E-mail, USB flash drive, local and other ways; ACCESSORIES: Touch pen 1 and more; Charger/Cable: Yes; Remote: Yes; Manual: Yes; Smart table stand on wheels for easily moving, Share key projection tool LANGUAGE: Serbian Potential; English Yes.</p>			

LOT 1 IT and other related equipment				
1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.31	<p><u>Smart board 75“ (1 piece):</u></p> <p>Compatible with Android, Windows 11 and Mac iOS; WiFi for fast connector for PC and Mac; CPU Min. 4-core, minimum 1.5 GHz; RAM Min. 8 GB; ROM Min. 64 GB; DISPLAY: Size Minimum 65“; Resolution Min. 3840 × 2160 px, 4K; Touch screen Capacitive multi-touch; Optical anti-blue light supported; Projection mode App free projection, wired projection etc.; Refresh rate Min. 60 Hz; Automatic brightness adjustment: Yes; Anti-glare: Yes; SPEAKERS: Frequency domain Min. 20Hz-20KHz; Quantity Minimum 4; Stereo/audio: Yes; NETWORK: Wi-Fi Yes; Bluetooth Min. 5.0; LAN Possible; TERMINAL INTERFACE: Video input Min. 2 x HDMI, 1 x USB Type-C port, 1 x; Video output Min. 1 x built-in screen, 1 x HDMI; Audio input Minimum 1 x built-in microphone array, 1 x 3.5 mm LINE IN, 2 x HDMI audio input; Audio output Minimum 4 x built-in speaker, 1 x 3.5 mm LINE OUT, 1 x HDMI; Other ports Minimum 2x USB 3.0 (Type A), 1x USB 2.0, 1xUSB type C; MICROPHONE: Sound pickup distance Minimum 7m; View angle Minimum 178; Frequency domain Min. 20 Hz–20 kHz; Enhanced functions Echo cancellation, gain control and external microphones; CAMERA: Integrated wide angle camera; Support videoconferencing in high resolution; WRITING: Precision Up to ±2 mm; Writing Latency Minimum 35ms; Erasing by hand gestures Yes; Whiteboard saving mode E-mail, USB flash drive, local and other ways; ACCESSORIES: Touch pen 1 and more; Charger/Cable Yes; Remote Yes; Manual Yes; Smart table stand on wheels for easily moving; Share key projection tool, LANGUAGE: Serbian Potential; English Yes.</p>			

LOT 1 IT and other related equipment				
1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.32	<p><u>Desktop PC (30 pieces):</u> Description: - Procesor: 12C or more 24T or more 4.4Ghz base clock (boost clock 5.6) default TDP 120W, - Procesor cooling: Dual tower air cooler TDP min 250w, - Memory (RAM): minimum 128GB (4x32GB DDR5, 6000MT/s); supported expansion to 256 GB, - Disk: min 2TB SSD NVMe, read/write 7000/6000;Mb/s, additional HDD 8TB SATA3, 3,5“, - Discrete graphical card: min 24 GB GDDR6 (RAM) or equivalent, - Base clock speed 1200 MHz; Memory bus 256bit or more, - Ports (for 2 monitors supported): HDMI port and DisplayPort; 2.1 port or; 2xHDMI port or 2x DisplayPort 2.1 port; 4 x USB 3 ports; 1 x USB C 3 ports, - Motherboard: with support for above CPU, min 4 slots for RAM memory, - Integrated sound card with audio and microphone outputs (3.5mm), - Integrated WiFi and bluetooth minimum 5.0, - Integrated LAN (RJ45), - Computer case: minimum 2 x cooling FANs (140mm, 25db or lower), - PSU 1000W or more.</p>			

LOT 1 IT and other related equipment				
1. Item number	2. Specifications required	3. Specifications offered	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1.33	<u>Notebook advanced (25 pieces):</u> <ul style="list-style-type: none"> - CPU: Procesor number of cores min 16, min 2.2 GHz (5.4 GHz), new generation, - Memory (RAM) 32GB, DDR5, - Disk SSD 1TB, NVMe, - Screen min 16“, anti glare, Integrated graphics card resolution QHD min 2560 x 1600, - Memory graphycal card min. 8GB, - Ports: 2x USB A, 2x USB C, 1x HDMI 2.1, - WiFi, LAN (RJ45), Bluetooth, - Network card Gigabit LAN 10/100/1000 Mbps, - Audio through 3.5mm port, - Numerical part keyboard: yes, - Integrated web camera, microphone, speakers, - Integrated battery min. 80WHr, - Operative System: No, - Colour: black/gray/silver. 			
1.34	<u>USB flash memory (190 pieces):</u> <ul style="list-style-type: none"> - Capacity: min 128 GB, - Material: metal, plastic, - Supported all operating system, - USB A port and C port, - Transfer speed: min. 500MB/s, - Colour: black /grey /silver. 			

Verification operations:

Installation: Directorate for Agrarian Payments will be responsible for installation, configuration and start-up of the equipment.

Commercial warranty: minimum 12 months after issuance of FAC.

Response time: 3 working days (on-site response time within 3 working days from the date of the failure of equipment during minimum 12 months after issuance of FAC).

Repair time: 10 working days (10 working days repair time during minimum 12 months after issuance of FAC).

Annex 1

DISTRIBUTION LIST

Item	Quantity (pcs)	Place and address of delivery/acceptance
Item N° 1.1: Ergonomic pad for mouse	Item N° 1.1: 50	All equipment within Lot 1 will be delivered to Sector for Coordination, International Cooperation and IACS (DAP). Further distribution of the equipment at local level will be based on the projects' needs and properly documented. Address: 70/I and III Beogradska Street, Belgrade.
Item N° 1.2: Standard pad for mouse	Item N° 1.2: 185	
Item N° 1.3: Microprocessor-controlled charger intended for charging batteries NiMH AA and AAA	Item N° 1.3: 10	
Item N° 1.4: Mouse – advanced	Item N° 1.4: 40	
Item N° 1.5: Mouse – standard	Item N° 1.5: 178	
Item N° 1.6: Keyboard	Item N° 1.6: 34	
Item N° 1.7: External hard drive HDD 8 TB	Item N° 1.7: 2	
Item N° 1.8: External hard drive SSD 2 TB	Item N° 1.8: 2	
Item N° 1.9: Rechargeable battery AA (LR6)	Item N° 1.9: 60	
Item N° 1.10: Rechargeable battery AAA (LR3)	Item N° 1.10: 40	
Item N° 1.11: Portable Bluetooth speaker	Item N° 1.11: 10	
Item N° 1.12: Tablet 11"	Item N° 1.12: 16	
Item N° 1.13: Case with keyboard for tablet 11"	Item N° 1.13: 16	
Item N° 1.14: Smart card reader	Item N° 1.14: 120	
Item N° 1.15: Notebook standard	Item N° 1.15: 145	
Item N° 1.16: Backpack for Notebook for notebook screen 16" to 17,5"	Item N° 1.16: 185	

Item N° 1.17: Computer Web camera	Item N° 1.17: 35	
Item N° 1.18: Computer headphones with microphone/mic	Item N° 1.18: 170	
Item N° 1.19: PC Monitor	Item N° 1.19: 170	
Item N° 1.20: Power Bank external batteries	Item N° 1.20: 50	
Item N° 1.21: Mobile projector	Item N° 1.21: 1	
Item N° 1.22: Presenter	Item N° 1.22: 1	
Item N° 1.23: Panel for mobile projector	Item N° 1.23: 1	
Item N° 1.24: Smart TV	Item N° 1.24: 2	
Item N° 1.25: Monitor ultra-wide	Item N° 1.25: 10	
Item N° 1.26: Multifunctional colour printer	Item N° 1.26: 1	
Item N° 1.27: Multifunctional printer Black/White	Item N° 1.27: 2	
Item N° 1.28: Set of toners for MFP color	Item N° 1.28: 5	
Item N° 1.29: Toner for MFP Black/White	Item N° 1.29: 5	
Item N° 1.30: Smart board 65"	Item N° 1.30: 1	
Item N° 1.31: Smart board 75"	Item N° 1.31: 1	
Item N° 1.32: Desktop PC	Item N° 1.32: 30	
Item N° 1.33: Notebook advanced	Item N° 1.33: 25	
Item N° 1.34: USB flash memory	Item N° 1.34: 190	