



## UNODC ROCA

## REQUEST FOR INFORMATION (RFI)

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**Title of the RFI:**

The technical equipment to Nur-Sultan including supply, installation, commissioning, equipment adjustment, basic training / instruction on the use of equipment.

**Date of this RFI:** 28 September 2021

**Closing Date for Receipt of RFI:** 11 October 2021

**RFI Number:** RFIUNODC18952

**Beneficiary Country/Territory:** KAZAKHSTAN

**Commodity/Service category:** Office Equipment & Supplies

**Address RFI response by fax or e-mail to the Attention of:** Ms. Shokhida.Esenbaeva

**Fax Number:** N/A

**E-mail Address:** shokhida.esenbaeva@un.org

**UNSPSC Code:** 43000000,40000000

### DESCRIPTION OF REQUIREMENTS

Technical specification of equipment for the Situation Center

**General description** The technical equipment for the situation center based at the head office of the Border Guard Service of National Security Committee of RK in Nur-Sultan should include the supply, installation, commissioning, equipment adjustment, basic training / instruction on the use of equipment.

The situation center includes a number of subsystems, including devices, a system of video display devices in the form of a video wall, multifunctional multi-monitor workstations for dispatchers and supervisors, complexes for managing video streams of information and display modes, network infrastructure integrated with the central data transmission network of the Border Guard Service, telecommunication subsystems (videoconference, telephony) integrated with local systems of border facilities, sound subsystems, modules for integration with such systems as video surveillance systems, monitoring systems (transport, cargo), data collection and processing systems (container.com, ArcGis), control and access control, GIS, etc.

**Supplier requirements** The supplier must have specialists trained in the installation, integration and technical support of the products and solutions of the supplied system.

The supplier must have all the necessary facilities and tools to perform installation, commissioning, and integration work.



Provide supporting documents in the offer.

The supplier must have experience in installing equipment in situation centers for at least 3 (three) years and licenses (permits) to carry out work in sensitive facilities in accordance with the national legislation of the Republic of Kazakhstan.

Warranty service and service The supplier must provide a written guarantee for the supplied equipment and further technical support for 3 (three) years 12 hours a day, 7 days a week, 365 days a year.

After receiving an oral or written application from the Customer about the detected malfunction, the supplier must ensure the departure of a specialist within 3 (three) hours to the Customer's facility and carry out warranty repairs within a period of no more than 1 (one) day from the moment of registration of the Customer's written application sent by mail or by e-mail, provided that the spare parts and components are available.

When submitting a commercial proposal, include a letter of guarantee on the fulfillment of this requirement.

Deadline To complete the execution and delivery of work to the Customer within 4 (four) months, namely, within 120 (one hundred and twenty) days from the date of signing the contract.

#### #1 INFORMATION DISPLAY SUBSYSTEM, AUDIO AND VIDEO SIGNAL SOURCES AND ARM EQUIPMENT, INTEGRATED CONTROL SUBSYSTEM, SWITCHING SUBSYSTEM

No.	Name of technical equipment / characteristics	Specifications	Quantity (pcs.)
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1	Information display subsystem		
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1.1.	Motorized retractable monitor	1 (one)	
	Permission	Full HD (1920 × 1080)	
	Monitor type	sensory	
	Diagonal	not less than 15.6 "	
	Body design	super thin	
	Fixed tilt function	Desirable	
	Mounting kit for table mounting	Availability is required	
	(special equipment check according to clause 4.2)	Necessarily	

1.2.	Tribune interactive display	1 (one)	
	Diagonal	not less than 21.5 "	
	Monitor type	sensory	
	Format	16: 9	
	Permission	Full HD (1920 x 1080)	
	Viewing angle	Not less than 178 degrees	
	(special equipment check according to clause 4.2)	Necessarily	

1.3.	Back-up display	9 (nine)	
	Diagonal	At least 65 "	
	Permission	Ultra HD (3840 x 2160)	
	Brightness	not less than 500 cd / m2	
	Video format support	HEVC	
	Contrast (DFC)	At least 500,000: 1	
	Displayed colors	Better than 1.07 billion, 10 bits	
	Viewing angles (H / V)	178: 178	
	Orientation	Portrait / landscape	
	Interfaces	At least 3 HDMI,	

1 DP

1 DVI

1 audio input

1 USB

1 RJ45

1 RS232C

1 infrared port



Dust protection Necessarily  
 Adjustable tilt angle Necessarily  
 Automatic screen rotation Necessarily  
 Email support Necessarily  
 USB - plugin Necessarily  
 Remote Control Necessarily  
 AV controller compatibility function Necessarily  
 Video conferencing system compatibility function Necessarily  
 Built-in acoustics Necessarily  
 Power Supply built-in  
 Weight without stand Not more than 28.5 kg  
 Swivel wall mount included Necessarily  
 Accessories Remote control

Power cable

HDMI cable

IR receiver

Instructions

Adapter for connection to RS232C input

(special equipment check according to clause 4.2) Necessarily

1.4. Workstation monitors 41 (forty one)

Diagonal 23.8 " - 24 "

Display IPS 1920x1080

Pixel response time No more than 5ms

Connectors Display Port / HDMI / VGA

(special equipment check according to clause 4.2) Necessarily

1.5. Interactive display 2 (two)

Diagonal 55 "

Permission 3840 x 2160

Brightness, cd / m2 300 ± 20 (without glass)

220 ± 20 (with glass)

Contrast 4700: 1

Viewing angles (H / V) 178: 178

Response time No more than 8 ms

Mobile stand with attachment Included

(special equipment check according to clause 4.2) Necessarily

1.6. Ultra short throw projector 1 (one)

LCD technology used 3 P-Si TFT

LCD display Not less than 0.55 "

Original XGA Resolution 1024x768

Basic picture format 4: 3

Support for image formats 16: 9

16:10

Focusing manual

Minimum focal length, mm 3.71

Focal length (digital) Range is not less than 1-1.35

Diagonal image size at minimum distance to the screen, m Not less than 1.42

Diagonal image size at maximum distance to the screen, m Not less than 2.37

(special equipment check according to clause 4.2) Necessarily

1.7. Projector lamp 1 (one)

Lamp type Smart UX60

1.8. Electronic pen for interactive whiteboard Intech IWB M-78W 1 (one)

2. Sources of audio and video signals and workstation equipment



- 2.1. System unit 13 (thirteen)  
 Type of MicroTower  
 CPU Intel Core i5 - 9xxx or better, 3.0 GHz or higher  
 RAM At least 8 GB  
 Optical device DVD + R / RW & CDRW  
 Storage device 1000 GB or more (SSD)  
 Video adapter type Built in  
 Built-in video adapter No worse than Intel UHD Graphics 630  
 Optional accessories Wired mouse, Wired keyboard  
 Operating system Microsoft Windows 10 Pro  
 Network interface Gigabit Ethernet (10/100/1000 Mbps)  
 (special equipment check according to clause 4.2) Necessarily
- 2.2. System unit 5 (five)  
 Type of MicroTower  
 CPU Intel Core i7 - 9xxx or better, 3.0 GHz or higher  
 RAM At least 8 GB  
 Optical device DVD + RW  
 Storage device 256 GB or more (SSD)  
 Video adapter type Built in  
 Built-in video adapter No worse than Intel UHD Graphics 630  
 Optional accessories Wired mouse, Wired keyboard  
 Operating system Microsoft Windows 10 Pro (64-bit)  
 Network interface Gigabit Ethernet (10/100/1000 Mbps)  
 (special equipment check according to clause 4.2) Necessarily
- 2.3. Mini PC 2 (two)  
 CPU No worse than Intel i3  
 Operating system Microsoft Windows 10 Pro (64-bit)  
 RAM 8 GB DDR4 or more  
 Intel Integrated Graphics Necessarily  
 Storage device 256 GB or more (SSD)  
 Power adapters Necessarily  
 Network interface Gigabit Ethernet (10/100/1000 Mbps)  
 (special equipment check according to clause 4.2) Necessarily
3. Switching subsystem
- 3.1. Mobile stand for interactive complex 1 (one)  
 Display diagonal size for diagonals 55 "-80"  
 Maximum load 90.9 kg  
 Height adjustment 1350-1650 mm  
 The presence of a cable channel inside the poles Necessarily  
 Height adjustable shelf Necessarily  
 Locking wheels Necessarily
- 3.2. bracket 9 (nine)  
 Possible size of monitors / interactive tablets for mounting Swivel wall mount for 17 "-24" monitors
- 3.3. Telecommunication rack 1 (one)  
 Form Factor 42U  
 Dimensions (W \* D) 800x1000
- 3.4. Internal hardware and cable management kit Necessarily 1 (one)
- 3.5. Set of cables for grounding and internal power supply Necessarily 1 (one)
- 3.6. Inside Rack Power Management Kit Necessarily 1 (one)
4. Accompanying services
- 4.1. Equipment delivery Delivery to destination:  
 Republic of Kazakhstan, Z10M9Y9,



- Nur-Sultan, st. Zheltoksan 48. 1 (one) service
- 4.2. Special equipment check Study for compliance with the information security requirements of the Republic of Kazakhstan with the issuance of a certificate (clauses 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 2.2, 2.3) 1 (one) service
- 4.3. Guarantee Service during the warranty period 1 (one) service

## #2: DOCUMENTATION SUBSYSTEM

1. Documentation subsystem
  - 1.1. Color laser printer 4 (four)
    - Format Maximum supported - A3
    - Permission At least 600 dpi
    - Pages per minute (ppm) Not less than 20
    - Memory At least 192MB
    - Frequency Not less than 540Mhz
    - Availability of ports USB 2.0
    - Tray volume At least 100 and 250 sheets
    - Maximum load, page / month 75,000
    - (special check of equipment according to clause 2.2) Necessarily
  - 1.2. Printer Cartridge 8 (eight) sets
    - Cartridge The presence in the kit is required
  - 1.3. Bookbinding machine 2 (two)
    - Maximum binding thickness, sheets 330
    - Maximum number of punched sheets Not less than 15
    - Maximum spring diameter, mm Not less than 38
    - Format up to A3
  - 1.4. Binding spring 4 (four) sets, 1 set of each diameter
    - Format A4
    - Spring diameter from 6 mm; 10 mm; 20 mm; 38 mm
  - 1.5. Cover for binding 200 (two hundred) pcs.
    - Format A4
    - Paper type 250g / m2
    - Colour White
    - Quantity 1 sheet
  - 1.6. Large format plotter 2 (two)
    - Print format A0 +
    - Number of colors 4
    - Connection type USB, Ethernet
    - Printing technology inkjet
    - Scope of application CAD / GIS
    - (special check of equipment according to clause 2.2) Necessarily
  - 1.7. Plotter ink 6 (six) sets
    - Plotter ink The presence in the kit is required
  - 1.8. Schroeder 4 (four)
    - Number of sheets for a single load 12
    - Type of material to be destroyed Paper, thin cardboard (including staples)
    - Container capacity Not less than 19 liters
    - Fragment size No more than 10m2 (safety class not lower than P-6)
    - Work speed up to 300 mm / s
  - 1.9. Laminator 1 (one)
    - Format A4



- Heating system      Heated shafts
- Film thickness range (µm)      75-120
- Temperature control      Availability is required
- Liberation / Reverse      Availability is required
- 1.9.1. Film for lamination      1 (one)
- Format A4
- Film thickness (µm)      80
- 1.9.2. Film for lamination      1 (one)
- Format A4
- Film thickness (µm)      100
- 2. Accompanying services
- 2.1. Equipment delivery      Delivery to destination:  
Republic of Kazakhstan, Z10M9Y9,  
Nur-Sultan, st. Zheltoksan 48.      1 (one) service
- 2.2. Special equipment check      Study for compliance with the information security requirements of the  
Republic of Kazakhstan with the issuance of a certificate (clauses 1.1, 1.6).      1 (one) service
- 2.3. Guarantee      Service during the warranty period      1 (one) service

### #3: AIR CONDITIONING SYSTEM

- 1. Air conditioning system
- 1.1. Column air conditioner      2 (two)
- Power, W      Cooling: 15000-16000W
- Heating: 14000-14500 W
- Power consumption, W      Cooling: no more than 5100 W
- Heating: no more than 5100 W
- Noise level, dB      37-41 dB
- Overall dimensions (WxHxD), mm      Unpacked: 180-185 x 52-55 x 40-45 cm
- Net weight      no more than 56 kg
- Compressor type      On-Off
- Freon type      R410A
- Power supply, V / Hz / F      380/50/3
- Pipe diameter, mm      Liquid 1/2
- Gas: 3/4
- Max. line length, m      Not less than 15 m  
(special check of equipment according to clause 2.2)      Necessarily
- 2. Accompanying services



- 2.1. Equipment delivery Delivery to destination:  
Republic of Kazakhstan, Z10M9Y9,  
Nur-Sultan, st. Zheltoksan 48. 1 (one) service
- 2.2. Special equipment check Study for compliance with the information security requirements of the  
Republic of Kazakhstan with the issuance of a certificate (clauses 1.1). 1 (one) service
- 2.3. Guarantee Service during the warranty period 1 (one) service

### SPECIFIC REQUIREMENTS / INFORMATION (IF ANY)

#### NOTE

Information on tendering for the UN Procurement System is **available free of charge** at the following address: <https://www.ungm.org/Public/Notice>

Only the United Nations Global Marketplace (UNGM) has been authorised to collect a nominal fee from vendors that wish to receive automatically Procurement Notices or Requests for Expression Of Interest. Vendors interested in this Tender Alert Service are invited to subscribe on <http://www.ungm.org>

***Vendors interested in participating in a potential future solicitation process should submit the Vendor Response Form of this RFI electronically (through the link available on the next page) before the closing date set forth above.***



# VENDOR RESPONSE

## NOTICE

- Companies can only participate in solicitations of the UN Secretariat after completing their registration (free of charge) at the United Nations Global Marketplace ([www.ungm.org](http://www.ungm.org)).
- Please verify that your company is registered under its **full legal** name on the United Nations Global Market Place ([www.ungm.org](http://www.ungm.org)) and that your application for registration as vendor has been submitted to the **UN Secretariat** in the same site, to be able to participate in any potential solicitation process as a result of this RFI.
- While companies can participate in solicitations after completion of registration at Basic Level, we strongly recommend all companies to register at least at **Level 1** under the United Nations Secretariat prior to participating in any solicitations.

**PLEASE NOTE: You should submit your response to this RFI electronically at:**

<https://www.un.org/Depts/ptd/node/add/interest-expressed?EOI=RFIUNODC18952>

**In case you have difficulties submitting your response electronically, please contact [shokhida.esenbaeva@un.org](mailto:shokhida.esenbaeva@un.org) directly for instructions.**





## RFI INSTRUCTIONS

### 1) Registering as a Vendor with the United Nations

Vendors interested in fulfilling the requirement described above must be registered at the UN Global Marketplace ([www.ungm.org](http://www.ungm.org)) with the UN Secretariat in order to be eligible to participate in any solicitation. Information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>.

#### **Prerequisites for Eligibility**

In order to be eligible for UN registration, you must declare that:

- A. Your company (as well as any parent, subsidiary or affiliate companies) is not listed in, or associated with a company or individual listed in:
  - I. the Compendium of United Nations Security Council Sanctions Lists (<https://www.un.org/sc/suborg/en/sanctions/un-sc-consolidated-list>), or
  - II. the IIC Oil for Food List website or, if listed on either, this has been disclosed to the United Nations Procurement Division in writing.
- B. Your company (as well as any parent, subsidiary or affiliate companies) is not currently removed or suspended by the United Nations or any other UN organisation (including the World Bank);
- C. Your company (as well as any parent, subsidiary or affiliate companies) is not under formal investigation, nor have been sanctioned within the preceding three (3) years, by any national authority of a United Nations Member State for engaging or having engaged in proscribed practices, including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice;
- D. Your company has not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against your company that could impair your company's operations in the foreseeable future;
- E. Your company does not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with the Vendor in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15).
- F. Your company undertakes not to engage in proscribed practices (including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice), with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN.

**For Registered Vendors:** Vendors already registered at the UN Global Marketplace with the UN Secretariat must ensure that the information and documentation (e.g. financial statements, address, contact name, etc.) provided in connection with their registration are up to date in UNGM. Please verify and ensure that your company is registered under its full legal name.

**For Vendors Interested in Registration:** Vendors not yet registered should apply for registration on the United Nations Global Marketplace (<http://www.ungm.org>); information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>. Vendors must complete the registration process prior to the closing date of the RFI. Vendors who have not completed the UNGM registration process with the UN Secretariat before the closing date of the RFI are not considered eligible to participate in the potential solicitation process related to the RFI. We strongly recommend all companies to register at least at Level 1 under the UN Secretariat prior to participating in any solicitations.

**IMPORTANT NOTICE: Any false, incomplete or defective vendor registration may result in the rejection of the application or cancellation of an already existing registration.**

### 2) RFI Process

Vendors interested in participating in the potential solicitation process should forward their information (as requested in the RFI) to UNODC ROCA (UNODC) by the closing date set forth in this RFI. *Due to the high volume of communications UNODC is not in a position to issue confirmation of receipt of RFIs.*

Please note that no further details of the potential solicitation can be made available to the vendors prior to issuance of the solicitation documents.

This RFI is issued subject to the conditions contained in the RFI introductory page available at <https://www.un.org/Depts/ptd/rfi>.



## Technical specification of equipment for the Situation Center

<p><b>General description</b></p>	<p>The technical equipment for the situation center based at the head office of the Border Guard Service of National Security Committee of RK in Nur-Sultan should include the supply, installation, commissioning, equipment adjustment, basic training / instruction on the use of equipment.</p> <p>The situation center includes a number of subsystems, including devices, a system of video display devices in the form of a video wall, multifunctional multi-monitor workstations for dispatchers and supervisors, complexes for managing video streams of information and display modes, network infrastructure integrated with the central data transmission network of the Border Guard Service, telecommunication subsystems (videoconference, telephony) integrated with local systems of border facilities, sound subsystems, modules for integration with such systems as video surveillance systems, monitoring systems (transport, cargo), data collection and processing systems (container.com, ArcGis), control and access control, GIS, etc.</p>
<p><b>Supplier requirements</b></p>	<p>The supplier must have specialists trained in the installation, integration and technical support of the products and solutions of the supplied system. The supplier must have all the necessary facilities and tools to perform installation, commissioning, and integration work.</p> <p>Provide supporting documents in the offer.</p> <p>The supplier must have experience in installing equipment in situation centers for at least 3 (three) years and licenses (permits) to carry out work in sensitive facilities in accordance with the national legislation of the Republic of Kazakhstan.</p>
<p><b>Warranty service and service</b></p>	<p>The supplier must provide a written guarantee for the supplied equipment and further technical support for 3 (three) years 12 hours a day, 7 days a week, 365 days a year.</p> <p>After receiving an oral or written application from the Customer about the detected malfunction, the supplier must ensure the departure of a specialist within 3 (three) hours to the Customer's facility and carry out warranty repairs within a period of no more than 1 (one) day from the moment of registration of the Customer's written application sent by mail or by e-mail, provided that the spare parts and components are available.</p> <p>When submitting a commercial proposal, include a letter of guarantee on the fulfillment of this requirement.</p>
<p><b>Deadline</b></p>	<p>To complete the execution and delivery of work to the Customer within 4 (four) months, namely, within 120 (one hundred and twenty) days from the date of signing the contract.</p>

**LOT 1: INFORMATION DISPLAY SUBSYSTEM, AUDIO AND VIDEO SIGNAL SOURCES AND ARM EQUIPMENT, INTEGRATED CONTROL SUBSYSTEM, SWITCHING SUBSYSTEM**

No.	Name of technical equipment / characteristics	Specifications	Quantity (pcs.)
1	<b>Information display subsystem</b>		
1.1.	<b>Motorized retractable monitor</b>		1 (one)
	Permission	Full HD (1920 x 1080)	
	Monitor type	sensory	
	Diagonal	not less than 15.6 "	
	Body design	super thin	
	Fixed tilt function	Desirable	
	Mounting kit for table mounting	Availability is required	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
1.2.	<b>Tribune interactive display</b>		1 (one)
	Diagonal	not less than 21.5 "	
	Monitor type	sensory	
	Format	16: 9	
	Permission	Full HD (1920 x 1080)	
	Viewing angle	Not less than 178 degrees	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
1.3.	<b>Back-up display</b>		9 (nine)
	Diagonal	At least 65 "	
	Permission	Ultra HD (3840 x 2160)	
	Brightness	not less than 500 cd / m2	
	Video format support	HEVC	
	Contrast (DFC)	At least 500,000: 1	
	Displayed colors	Better than 1.07 billion, 10 bits	
	Viewing angles (H / V)	178: 178	
	Orientation	Portrait / landscape	
	Interfaces	At least 3 HDMI, 1 DP 1 DVI 1 audio input 1 USB 1 RJ45 1 RS232C 1 infrared port	
	Dust protection	Necessarily	
	Adjustable tilt angle	Necessarily	
	Automatic screen rotation	Necessarily	
	Email support	Necessarily	
	USB - plugin	Necessarily	
	Remote Control	Necessarily	
	AV controller compatibility function	Necessarily	
	Video conferencing system compatibility function	Necessarily	
	Built-in acoustics	Necessarily	
	Power Supply	built-in	

	Weight without stand	Not more than 28.5 kg	
	Swivel wall mount included	Necessarily	
	Accessories	Remote control Power cable HDMI cable IR receiver Instructions Adapter for connection to RS232C input	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
1.4.	<b>Workstation monitors</b>		41 (forty one)
	Diagonal	23.8 " - 24 "	
	Display	IPS 1920x1080	
	Pixel response time	No more than 5ms	
	Connectors	Display Port / HDMI / VGA	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
1.5.	<b>Interactive display</b>		2 (two)
	Diagonal	55 "	
	Permission	3840 x 2160	
	Brightness, cd / m2	300 ± 20 (without glass) 220 ± 20 (with glass)	
	Contrast	4700: 1	
	Viewing angles (H / V)	178: 178	
	Response time	No more than 8 ms	
	Mobile stand with attachment	Included	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
1.6.	<b>Ultra short throw projector</b>		1 (one)
	LCD technology used	3 P-Si TFT	
	LCD display	Not less than 0.55 "	
	Original XGA Resolution	1024x768	
	Basic picture format	4: 3	
	Support for image formats	16: 9 16:10	
	Focusing	manual	
	Minimum focal length, mm	3.71	
	Focal length (digital)	Range is not less than 1-1.35	
	Diagonal image size at minimum distance to the screen, m	Not less than 1.42	
	Diagonal image size at maximum distance to the screen, m	Not less than 2.37	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
1.7.	<b>Projector lamp</b>		1 (one)
	Lamp type	Smart UX60	
1.8.	<b>Electronic pen for interactive whiteboard Intech IWB M-78W</b>		1 (one)
2.	<b>Sources of audio and video signals and workstation equipment</b>		
2.1.	<b>System unit</b>		13 (thirteen)
	Type of CPU	MicroTower Intel Core i5 - 9xxx or better, 3.0 GHz or	

		higher	
	RAM	At least 8 GB	
	Optical device	DVD + R / RW & CDRW	
	Storage device	1000 GB or more (SSD)	
	Video adapter type	Built in	
	Built-in video adapter	No worse than Intel UHD Graphics 630	
	Optional accessories	Wired mouse, Wired keyboard	
	Operating system	Microsoft Windows 10 Pro	
	Network interface	Gigabit Ethernet (10/100/1000 Mbps)	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
2.2.	<b>System unit</b>		5 (five)
	Type of	MicroTower	
	CPU	Intel Core i7 - 9xxx or better, 3.0 GHz or higher	
	RAM	At least 8 GB	
	Optical device	DVD + RW	
	Storage device	256 GB or more (SSD)	
	Video adapter type	Built in	
	Built-in video adapter	No worse than Intel UHD Graphics 630	
	Optional accessories	Wired mouse, Wired keyboard	
	Operating system	Microsoft Windows 10 Pro (64-bit)	
	Network interface	Gigabit Ethernet (10/100/1000 Mbps)	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
2.3.	<b>Mini PC</b>		2 (two)
	CPU	No worse than Intel i3	
	Operating system	Microsoft Windows 10 Pro (64-bit)	
	RAM	8 GB DDR4 or more	
	Intel Integrated Graphics	Necessarily	
	Storage device	256 GB or more (SSD)	
	Power adapters	Necessarily	
	Network interface	Gigabit Ethernet (10/100/1000 Mbps)	
	<i>(special equipment check according to clause 4.2)</i>	Necessarily	
3.	<b>Switching subsystem</b>		
3.1.	<b>Mobile stand for interactive complex</b>		1 (one)
	Display diagonal size	for diagonals 55 "-80"	
	Maximum load	90.9 kg	
	Height adjustment	1350-1650 mm	
	The presence of a cable channel inside the poles	Necessarily	
	Height adjustable shelf	Necessarily	
	Locking wheels	Necessarily	
3.2.	<b>bracket</b>		9 (nine)
	Possible size of monitors / interactive tablets for mounting	Swivel wall mount for 17 "-24" monitors	
3.3.	<b>Telecommunication rack</b>		1 (one)
	Form Factor	42U	
	Dimensions (W * D)	800x1000	
3.4.	Internal hardware and cable management kit	Necessarily	1 (one)
3.5.	Set of cables for grounding and internal power supply	Necessarily	1 (one)

3.6.	Inside Rack Power Management Kit	Necessarily	1 (one)
<b>4.</b>	<b>Accompanying services</b>		
4.1.	Equipment delivery	Delivery to destination: Republic of Kazakhstan, Z10M9Y9, Nur-Sultan, st. Zheltoksan 48.	1 (one) service
4.2.	Special equipment check	Study for compliance with the information security requirements of the Republic of Kazakhstan with the issuance of a certificate (clauses 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 2.2, 2.3)	1 (one) service
4.3.	Guarantee	Service during the warranty period	1 (one) service

## LOT 2: DOCUMENTATION SUBSYSTEM

<b>1.</b>	<b>Documentation subsystem</b>		
1.1.	<b>Color laser printer</b>		4 (four)
	Format	Maximum supported - A3	
	Permission	At least 600 dpi	
	Pages per minute (ppm)	Not less than 20	
	Memory	At least 192MB	
	Frequency	Not less than 540Mhz	
	Availability of ports	USB 2.0	
	Tray volume	At least 100 and 250 sheets	
	Maximum load, page / month	75,000	
	<i>(special check of equipment according to clause 2.2)</i>	Necessarily	
1.2.	<b>Printer Cartridge</b>		8 (eight) sets
	Cartridge	The presence in the kit is required	
1.3.	<b>Bookbinding machine</b>		2 (two)
	Maximum binding thickness, sheets	330	
	Maximum number of punched sheets	Not less than 15	
	Maximum spring diameter, mm	Not less than 38	
	Format	up to A3	
1.4.	<b>Binding spring</b>		4 (four) sets, 1 set of each diameter
	Format	A4	
	Spring diameter	from 6 mm; 10 mm; 20 mm; 38 mm	
1.5.	<b>Cover for binding</b>		200 (two hundred) pcs.
	Format	A4	
	Paper type	250g / m2	
	Colour	White	
	Quantity	1 sheet	
1.6.	<b>Large format plotter</b>		2 (two)
	Print format	A0 +	
	Number of colors	4	
	Connection type	USB, Ethernet	
	Printing technology	inkjet	
	Scope of application	CAD / GIS	

	<i>(special check of equipment according to clause 2.2)</i>	Necessarily	
1.7.	<b>Plotter ink</b>		6 (six) sets
	Plotter ink	The presence in the kit is required	
1.8.	<b>Schroeder</b>		4 (four)
	Number of sheets for a single load	12	
	Type of material to be destroyed	Paper, thin cardboard (including staples)	
	Container capacity	Not less than 19 liters	
	Fragment size	No more than 10m2 (safety class not lower than P-6)	
	Work speed	up to 300 mm / s	
1.9.	<b>Laminator</b>		1 (one)
	Format	A4	
	Heating system	Heated shafts	
	Film thickness range (µm)	75-120	
	Temperature control	Availability is required	
	Liberation / Reverse	Availability is required	
1.9.1.	<b>Film for lamination</b>		1 (one)
	Format	A4	
	Film thickness (µm)	80	
1.9.2.	<b>Film for lamination</b>		1 (one)
	Format	A4	
	Film thickness (µm)	100	
<b>2.</b>	<b>Accompanying services</b>		
2.1.	Equipment delivery	Delivery to destination: Republic of Kazakhstan, Z10M9Y9, Nur-Sultan, st. Zheltoksan 48.	1 (one) service
2.2.	Special equipment check	Study for compliance with the information security requirements of the Republic of Kazakhstan with the issuance of a certificate (clauses 1.1, 1.6).	1 (one) service
2.3.	Guarantee	Service during the warranty period	1 (one) service

**LOT 3: AIR CONDITIONING SYSTEM**

<b>1.</b>	<b>Air conditioning system</b>		
1.1.	<b>Column air conditioner</b>		2 (two)
	Power, W	Cooling: 15000-16000W Heating: 14000-14500 W	
	Power consumption, W	Cooling: no more than 5100 W Heating: no more than 5100 W	
	Noise level, dB	37-41 dB	
	Overall dimensions (WxHxD), mm	Unpacked: 180-185 x 52-55 x 40-45 cm	
	Net weight	no more than 56 kg	
	Compressor type	On-Off	
	Freon type	R410A	
	Power supply, V / Hz / F	380/50/3	
	Pipe diameter, mm	Liquid 1/2 Gas: 3/4	
	Max. line length, m	Not less than 15 m	
	<i>(special check of equipment according to clause 2.2)</i>	Necessarily	
<b>2.</b>	<b>Accompanying services</b>		
2.1.	Equipment delivery	Delivery to destination: Republic of Kazakhstan, Z10M9Y9, Nur-Sultan, st. Zheltoksan 48.	1 (one) service
2.2.	Special equipment check	Study for compliance with the information security requirements of the Republic of Kazakhstan with the issuance of a certificate (clauses 1.1).	1 (one) service
2.3.	Guarantee	Service during the warranty period	1 (one) service