

**Schedule of requirements**

**Request for Quotation**

**Purchase and installation of the LAN network  
for SBGS in Ukraine  
(UNOPS-UCC-2017-G-009)**

***eSourcing reference: RFQ/2017/2653***

**Summary of Requirements**

Version: v2016.1

UNOPS requirements and criteria are defined in the **e-sourcing RFQ/2017/2653** (Ref No: UNOPS-UCC-2017-G-009).

**General consideration:**

- Selected supplier will be contracted in order to provide material, equipment and perform a complete set of LAN network installations, certified on category 5e that supports up to 1GBps, with cross talk and system noise reduced in accordance with Category 5e requirements or more.
- Contract stipulation will be subject to issuance of a special permission to the selected company to perform the installation works, by the SBGS Ukraine.
- Installation works will be closely supervised by the SBGS authorized personnel and UNOPS personnel. If the material and installation fail to meet the laid down specifications, the supplier shall take immediate steps to remedy the deficiency or replace the defective goods to the satisfaction of the UNOPS and the SBGS.
- Bidder warrants that installed equipment will be new and unused. Bidder further warrants that none of the supplies will have any defect arising from design, materials or workmanship.
- Bidder must be in continuous business and registered for dealing with LAN network installation at this moment and over the past two years.
- The Bidder should have at least 2 similar contracts executed successfully during the last 5 years. Two reference letters or copies of the contract must be provided as a proof.
- The bidder should be registered for work with weak current, telephony and LAN installation related activities, in accordance with the regulation prescribed by the Ukrainian legislation, as demonstrated in the certificate of incorporation (business registration document).
- List containing names, functions and titles of Team Members which will be responsible for the purchase and installation of the network equipment and material, as defined in this RFQ, at the Beneficiary's premises must be submitted.
- The bidder should have within its team responsible for the execution of installation as per this RFQ, a certified telecommunication specialist for designing and overseeing the installation of telecommunications equipment and facilities, such as complex electronic switching systems, and other plain old telephone service facilities, optical fiber cabling, IP networks, and microwave transmission systems. That specialist should be in possession of a professional licence issued by the relevant certification body in Ukraine.
- The bidder will provide a warranty for the network functionality for a minimum of 5 years upon network certification.
- UNOPS or their representatives reserve the right to inspect and/or test any or all item of the goods to confirm their conformity to the contract, prior to dispatch from the supplier's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the goods on receipt at destination.

## A. Technical specifications and Comparative Data Table - Important consideration

- The required LAN network is for 150 users (200 connections) spread on 2 floors of the premises in Kramatorsk Border Guard Detachment of SBGS in Ukraine;
- The computer network should serve to connect all work stations to unified information system and ensuring the opportunely access to information resources of SBGS in Ukraine;
- Turnkey services - provision of all the necessary material, installation works, refurbishment of the walls to previous condition;
- All cables and network modules should be compliant with Cat 5e or more.
- Required network category (CAT 5E) will be proven through network category certification process for each network connection
- Certified network should support GB data transfer speed. All network connections will be certified to category 5e upon installation. Certificates to be provided by supplier.
- Each floor will have structured cabling infrastructure with certified 1GBps transfer.
- The scheme for networking will not be provided due to security/confidentiality issues. Exact positions of LAN connectors and rack cases should be determined through consultation with the final user.
- The bidder should perform works in line with principles to minimally affect the structure of the building. All the performed damage would be repaired upon the completion of installation and preliminary checkups of connectors functionality.
- Installation of PVC trunks, with minimal damage to the building, and in consultation with dedicated personnel. Ultimate goal is preparation of fully structured network for the reliable data functioning.
- PVC Trunk channels with corners, ends, fixtures and mounting elements should be in accordance with national law and security standards and all national security regulations.
- Both channels and network module boxes shall be installed by drilling (no silicon glue or trunk channels with self-adhesive tape will be allowed)
- Where specified, electrical extension cords shall be prepared from the wall plug to the end user.
- In open areas network and power cables shall be protected with floor cable protectors (capacity up to 8 network cables and 4 AC power cables) – 1 meter length tolerance for terminal users in open space shall be provided.
- The implementer will decide on whether to use single trunk with the separation panel between network and power cables, or separate channels for power cords

Within the quotation, the Bidder must also include the following information:

- Description and type of materials to be installed (exact brand and details); equipment and material must be manufactured by internationally recognized brand name manufacturer.
- The number of staff and working schedule for the installation works (for monitoring purposes);
- Additional costs for the successful implementation of the action (including but not limited to transportation, accommodation, per diem and all other costs);
- Network Certification costs and description.

**UNOPS minimum technical requirements and estimated quantities:**

Item No	UNOPS minimum technical requirements	Estimated Quantity
<b>Provision of materials</b>		
1	Transceiver module Cisco 1000BASE-SX SFP (GLC-SX-MMD)	36 pcs
2	Patch cord LC-LC DUPLEX 50/125 2m	36 pcs
3	Patch cord UTP cat.5e 3m	200 pcs.
4	Patch cord UTP cat.5e 1.5m	200 pcs
5	TP cable cat.5e	8000 m
6	Power outlet single-wide RJ45	200 pcs
7	Module RJ45	200 pcs
8	Patch panel RJ45	9 pcs
9	Cable-tree (organizer) 1U 19"	24 pcs
10	Furniture mounting set (screw, washer, nut)	300 pcs
11	Wiring closet 12 U	1 pcs
12	Wiring closet 32 U	2 pcs
13	Metal cable tray 200*50 3m	70 pcs
14	Screw rod M6 2m long	60 pcs
15	U-channel PSL with thickness 1,5 L2000 BPL 2920	40 pcs
16	Nut M6	700 pcs
17	Washer M6	700 pcs
18	Screw M6*16	100 pcs
19	Steel wall plug ETDH M6	300 pcs
20	Mini-channel TMC 40*17 (RAL 9016)	1000 m
21	Outer corner AEM 40*17 (RAL 9016)	100 pcs
22	Inner corner AIM 40*17 (RAL 9016)	100 pcs
23	Flat corner ARM 40*17 (RAL 9016)	50 pcs
24	Blank cover LM 40*17 (RAL 9016)	50 pcs
25	Self-tapping screw for wood 3,5*25	2000 pcs
26	Zip ties (100 pcs.)	10 packages
27	<b>Fiber optic cable 50/125 24 stranded</b>	<b>1000 m</b>
28	Optical patch panel 19" ML-PU-1-3	4 pcs
29	Splice cassette 2S-3000	8 pcs
30	Splice cassette cover VR3000	4 pcs
31	Adapter AMP LC Duplex MM	48 pcs
32	Front face-plate CNP SC-08 (for installation of 8 LC connectors)	8 pcs
33	Front face-plate CNP BLANK	4 pcs
34	Pigtails LC/UPC MM 50/125 1,5m	100 pcs
35	Heat shrink sleeve for protection of welded fiber joints 60 mm	100 pcs
<b>Installation Works</b>		
36	Installation of TP cable cat.5e (per meter)	100 pcs
37	Installation of power outlet single-wide RJ45 (per piece)	200 pcs
38	Installation of module RJ45 (per piece)	200 pcs
39	Mounting and installation of wiring closet 12 U (including installation of patch panels and cable organizers)	1 pcs
40	Mounting and installation of wiring closet 32 U (including installation of patch panels and cable organizers)	2 pcs
41	Mounting of Metal cable tray 200*50	7 pcs
42	Mounting of U-channel PSL	40 pcs
43	Mounting of Mini-channel TMC 40*17 (RAL 9016)	1000m
44	Mounting of Outer corner AEM 40*17 (RAL 9016)	100m
45	<b>Mount of Fiber optic cable</b>	<b>1000 m</b>
46	Mount of Optical patch panel	4 pcs
47	Mount of Front face-plate CNP SC-08	8 pcs
48	Mount of Pigtails LC/UPC MM	100 pcs

49	Category certifying	Lumpsum
50	International brand name power panel (maybe with battery/surge protection with min 300W power (pcs 5)	5 pcs
51	Cooling fan	5 pcs
52	Shelf for non-racked devices	1 pcs
53	Rack case with lockable doors with side and front access to the devices installed within the rack	8 pcs
54	Hole drill through separation wall (max 30cm thickness)	50 pcs
55	Hole drill through the floor (max 50cm thickness)	2 pcs
<b>Other Costs</b>		
56	All other operational and technical costs (transportation, transfers, per diem, fees etc.) pertaining to provision of goods and works as per this tender	lumpsum
57	Network certification	Lumpsum

### C. Delivery requirements:

UNOPS Requirements	
<b>Delivery time</b>	Bidder shall provide and install the network maximum <b>20 (Twenty)</b> days after the Contract signature.
<b>Delivery place and Incoterms rules</b>	<b>All costs are net of any direct taxes, customs duties, indirect taxes and VAT.</b> All costs include provision, transportation, delivery and offload and installation on the Beneficiary's premises, of the equipment as per this tender, must be included in the price.  Bidder shall facilitate all the necessary logistical arrangements related to provision of goods/services.
<b>Consignee details</b>	SBGS, Kramatorsk Detachment, Ukraine
<b>UNOPS Right to vary requirements</b>	At the time the Contract is awarded, UNOPS reserves the right to vary the quantity of the goods and associated services specified above, provided this does not exceed +/- [insert %, normally it should not exceed 20%] , without any change in the unit prices or other terms and conditions of the ITB.

### Delivery Requirements – Important Considerations

- 1) The offered equipment and services must comply with requirements laid down in the Technical specifications – Comparative Data Table. The required specifications present minimum requirements. Bidders may offer items or services with more advanced specifications and such offers are accepted as appropriate.
- 2) Bidders must offer 100 % of the items specified in this tender and 100% of the required estimated quantities. Evaluation will be done per total requirement.
- 3) The bidder must offer unit prices and total prices for the estimated material, works and other costs. The contract will be stipulated on a measured price/re-measurement basis, whereas the unit prices will remain valid and unchanged, while the exact quantity will be measured.

**The total quantities of the material, works and other costs used for the successful completion of the contract, will be measured upon final completion, certification and network testing.**

- 4) All offered prices are net of any direct taxes, customs duties, indirect taxes and VAT. All costs also include provision, transportation, delivery and offload and installation on the Beneficiary's premises, of the equipment as per this tender. Appropriate network certification and licenses must also be included in the price.