Section II: Schedule of requirements

E-Sourcing reference no: RFQ/2022/44567

A. **Summary of Requirements for the Forensic Equipment for the Main Bureau of Forensic Medical Examination of the Ministry of Health of Ukraine**

UNOPS requirements are comprised of the following 3 (three) lots:

Lot 1. DNA Forensic lab equipment including the below items:

1. Genetic DNA analyser / sequencer - 1 PCS
2. Automatic sample preparation station for DNA extraction - 1 PCS
3. Equipment for polymerase chain reaction (PCR) (Amplifier) - 1 PCS
4. System for conducting PCR in real time - 1 PCS
5. Cartridge for sequencing system and fragment analysis or equivalent - 2 PCS

5.1. Rubber covers for containers with SeqStudio cathodic buffer or equivalent (20 pcs in one pack) - 2 Packs

6. Cathode buffer container Seqstudio or or equivalent - 3 PCS
7. MicroAmp 96-Well Reaction Plate or equivalent - 6 Packs
8. MicroAmp Optical 8-tube Strip or equivalent - 2 Packs
9. MicroAmp Optical 8- Cap Strip or equivalent - 1 Pack
10. 96-Well Plate Septa or equivalent - 3 Packs
11. Hi-Di Formamide or equivalent - 3 Bottles
12. GeneScan-600 LIZ Size Standard, 800 Loads or equivalent - 2 PCS
13. Proteinase K, powder (≥30 U/mg), 100mg - 2 PCS
14. Thin-walled, frosted lid, Rnase- free 0,2 ml PCR tubes - 2 Packs
15. Quantifiler Trio DNA Quantification Kit or equivalent - 4 PCS
16. PrepFiler Forensic DNA Extraction Kit or equivalent - 2 Packs
17. Reagent kit for automatic extraction of DNA Prepfiler Express Forensic or equivalent - 6 PCS
18. Reagent kit for automatic extraction of DNA PrepFiler Express BTA or equivalent - 6 PCS
19. Bone DNA extraction kit PrepFiler Express BTA or equivalent - 2 PCS
20. Genetic identification kit GlobalFiler IQC PCR Amplification Kit or equivalent - 2 PCS
21. DNA Decontamination Reagent (2 bottles * 250 ml per pack) - 2 Packs

Lot 2. Laboratory instruments and equipment including the below items:

1. Magnetic stand - 1 PCS
2. Water purification system - 1st and 3rd class (bidistiller) - 1 PCS
3. UV box for preparation (conducting PCR), type 1 - 1 PCS
4. UV box for preparation (conducting PCR), type 2 - 1 PCS
5. Laminar cabinet - 1 PCS
6. Centrifuge - 1 PCS
7. Thermo laboratory centrifuge - 1 PCS
8. Thermostat for 1.5ml tubes with heating functions up to 100 °C - 1 PCS
9. Thermal shaker - 1 PCS
10. Rack for Microtubes, 1,5-2,0 ml microtubes - 5 PCS
11. A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 0.2 μl-2 μl - 4 PCS
12. A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 2 μl-20 μl - 5 PCS
13. A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 100 μl-1000 μl - 5 PCS
14. A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 20 μl-200 μl - 5 PCS

15. Table stand for pipette dispensers - 4 PCS
16. Barrier (Filter) Tips, 10 μl size - 3 PCS
17. Barrier (Filter) Tips, 200 μl size - 6 PCS
18. Barrier (Filter) Tips, 1000 μL size - 3 PCS
19. 1,5 ml Rnase-free Microfuge Tubes or equivalent - 3 PCS
20. Eppendorf 2,0 ml Rnase-free Microfuge Tubes or equivalent - 3 PCS
21. Laboratory Fridge with freezer up to -20 degrees Celsius - 2 PCS
22. Magnetic mixer - 1 PCS
23. Vortex mini centrifuge - 2 PCS
24. Bactericidal flowing recirculatory - 5 PCS

Lot 3. Laboratory Furniture including the below items:

1. Lab desk - 1 PCS
2. Hanging lab cupboard -1 PCS
3. Working desk - 4 PCS
4. Reinforced lab desk (1st type) - 4 PCS
5. Service extension - 4 PCS
6. Mobile desk (1st type) - 2 PCS
7. Mobile desk (2nd type) - 1 PCS
8. Reinforced lab desk (2nd type) 1 PCS
9. Reinforced lab desk (3rd type) - 1 PCS
10. Hanging lab cupboard - 2 PCS
11. Rolling lab cupboard (1st type) - 3 PCS
12. Rolling lab cupboard (2nd type) - 3 PCS
13. Single sink desk - 1 PCS
14. Labware cabinet (1st type) - 4 PCS
15. Reagents cabinet - 3 PCS
16. Labware cabinet (2nd type) - 1 PCS
17. Wardrobe (1st type) - 2 PCS
18. Wardrobe (2nd type) - 1 PCS
19. Lab chair on rollers - 6 PCS
20. Lab stool - 1 PCS
21. Standard lab chair on rollers - 6 PCS
22. Standard lab stool on rollers - 4 PCS

Lot 1

Technical specifications for Goods for Lot 1 DNA Forensic lab equipment

N	UNOPS minimum technical requirements	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	**Genetic DNA analyser / sequencer - 1 PCS**	☐Yes ☐ No	Insert details
1.1	Intended for carrying out sequencing and fragment analysis reactions	☐Yes ☐ No	
1.2	Number of capillaries - at least 4	☐Yes ☐ No	
1.3	Automatic cleaning of capillaries	☐Yes ☐ No	
1.4	Automatic filling of capillaries with polymer - at least 4	☐Yes ☐ No	
1.5	Format - 96-well plate or 8-well strips	☐Yes ☐ No	

1.6	Possibility of simultaneous analysis - at least 4 samples	☐Yes ☐ No	
1.7	Capillary cartridges	☐Yes ☐ No	
1.8	Light source - a solid-state laser. Wave length at least 505 nm	☐Yes ☐ No	
1.9	Use of polymer for sequencing and fragment analysis	☐Yes ☐ No	
1.10	Detection of colourants - simultaneous. At least 6	☐Yes ☐ No	
1.11	Capillary length - at least 28 cm	☐Yes ☐ No	
1.12	Device control - Using the device's colour touch panel	☐Yes ☐ No	
1.13	Device validation - the device is validated in accordance with internationally recognized DAB / SWGDAM standards of forensic identification of a person	☐Yes ☐ No	
1.14	1 computer for analysis of results - in accordance with the configuration of the analyser's manufacturer with an LCD monitor of at least 23"	☐Yes ☐ No	
1.15	Availability of an APS-type uninterruptible power supply - power capacity of at least 2400 mA	☐Yes ☐ No	
1.16	Specialised software - GeneMapper ID-X or GeneMarker for genotyping expert samples and creating an in-laboratory database, installation kit	☐Yes ☐ No	
1.16.1	Work with the data obtained on the genetic analyzer - available	☐Yes ☐ No	
1.16.2	A database for storing projects and settings required to analyse and interpret the results - available	☐Yes ☐ No	
1.16.3	Determination of the quality of the internal dimensional standard in the samples and the allelic ladder - available	☐Yes ☐ No	
1.16.4	Determination of the quality of the allelic ladder - available	☐Yes ☐ No	
1.16.5	Validation for DNA purposes of personal identification - available	☐Yes ☐ No	
1.16.6	Automatic detection of fragment size (base pairs) - available	☐Yes ☐ No	
1.16.7	Automatic genotyping of samples by comparing the sizes of fragments with an allelic ladder - available	☐Yes ☐ No	
1.16.8	Visualisation of the results in the form of tables and graphs - available	☐Yes ☐ No	
1.16.9	Determine the quality of samples at the level of the marker and the sample as a whole - available	☐Yes ☐ No	
1.16.10	Formation of a report on the quality of all samples, allelic ladders and controls of the current project - available	☐Yes ☐ No	
1.16.11	Creation of an internal database of reference genotypes both through import from the project and in the form of a text file - available	☐Yes ☐ No	
1.16.12	Comparison of genotypes of project samples with an internal reference base with the ability to export the results obtained and view the results in the form of a graph - available	☐Yes ☐ No	
1.16.13	Indication of a marker with a partial genotype on the graph	☐Yes ☐ No	

1.17	Operational manual - available	☐Yes ☐ No	
1.18	Warranty service - 24 months from the date of delivery	☐Yes ☐ No	
2	**Automatic sample preparation station for DNA extraction - 1 PCS**	☐Yes ☐ No	
2.1	Volume of the initial sample - up to 500 µl	☐Yes ☐ No	
2.2	Number of magnets - at least 13	☐Yes ☐ No	
2.3	Possibility of simultaneous analysis - at least 13 samples	☐Yes ☐ No	
2.4	Particle collection efficiency - >99%	☐Yes ☐ No	
2.5	Size of magnetic particles - 0,5–10 µm	☐Yes ☐ No	
2.6	The types of units used - disposable cartridges	☐Yes ☐ No	
2.7	Piston/ syringe tips - special disposable piston/syringe tips are used	☐Yes ☐ No	
2.8	Removal of foil from the cartridge in the device - automatic	☐Yes ☐ No	
2.9	Software - pre-installed software with special features	☐Yes ☐ No	
2.10	Control panel on the device - LCD	☐Yes ☐ No	
2.11	Cross-contamination control - available	☐Yes ☐ No	
2.12	A flash card - containing at least two protocols for DNA extraction (for bone material samples and other materials samples)	☐Yes ☐ No	
2.13	Time of extraction of 13 samples - Less than 30 minutes	☐Yes ☐ No	
2.14	Time of DNA extraction from bone material samples (taking into account previous lysis) - less than 2,5 hours	☐Yes ☐ No	
2.15	Time of DNA extraction from hair bulb samples (taking into account previous lysis) - less than 1,5 hours	☐Yes ☐ No	
2.16	Universal protocol for DNA extraction from a wide range of expert samples (except bone tissue samples) - available A special protocol for DNA extraction from bone remains and teeth - available	☐Yes ☐ No	
2.17	Validation in accordance with internationally recognized DAB / SWGDAM standards of forensic identification - available	☐Yes ☐ No	
2.18	Warranty service - 24 months from the date of commissioning	☐Yes ☐ No	
3	**Equipment for polymerase chain reaction (PCR) (Amplifier) - 1 PCS**	☐Yes ☐ No	
3.1	Device for polymerase chain reaction (PCR) - available	☐Yes ☐ No	
3.2	Number of thermal blocks - at least 1	☐Yes ☐ No	
3.3	Capacity of a thermal block - at least 96 wells	☐Yes ☐ No	
3.4	Volume of a well - at least 0,2 ml	☐Yes ☐ No	

3.5	The possibility of setting different conditions for the experiment in each of the 6 temperature zones and conducting 6 separate experiments in different temperature zones - available	☐Yes ☐ No	
3.6	Thermal block based on Peltier elements - available	☐Yes ☐ No	
3.7	Accuracy of temperature maintenance in the device unit - at least 0,25°C	☐Yes ☐ No	
3.8	The temperature range supported by the device - 4°C – 100°C	☐Yes ☐ No	
3.9	Homogeneity of the temperature of the device unit - within 0,5°C	☐Yes ☐ No	
3.10	Sample heating speed - at least 4,4°C/s	☐Yes ☐ No	
3.11	Touch screen and a graphic interface - the possibility of creating amplification protocols on the computer, transferring them to the device and vice versa - from the device to the computer. Possibility of increasing the memory of the device using a USB storage device.	☐Yes ☐ No	
3.12	Exchanging information between devices - available. Using a USB drive	☐Yes ☐ No	
3.13	Built-in software for calculating the optimal reaction temperatures - available	☐Yes ☐ No	
3.14	The possibility of using a mobile device (tablet or phone) to view the amplification progress and results - available	☐Yes ☐ No	
3.15	USB and Wi-Fi communication ports - available	☐Yes ☐ No	
3.16	The possibility of using cloud technologies for data transfer and exchange - Available	☐Yes ☐ No	
3.17	Validation - in accordance with internationally recognized DAB/SWGDAM standards of forensic identification	☐Yes ☐ No	
4	**System for conducting PCR in real time - 1 PCS**	☐Yes ☐ No	
4.1	Number of samples (wells) - 96	☐Yes ☐ No	
4.2	Volume of the reaction - 96-wells: block of 0,2 ml: 10–100 μl	☐Yes ☐ No	
4.3	Enhancement source - additional CMOS with bright-white diode	☐Yes ☐ No	
4.4	Optical detection - 96 wells: 6 separate filters	☐Yes ☐ No	
4.5	Enhancement/detection range - 96 wells: 450–680 nm/500–730 nm	☐Yes ☐ No	
4.6	Multiplexing - 96-wells: up to 6 targets	☐Yes ☐ No	
4.7	2D barcode reading - optional	☐Yes ☐ No	
4.8	Heating/cooling method - Peltier	☐Yes ☐ No	
4.9	Temperature zone function - 96 wells: 6 zones	☐Yes ☐ No	
4.10	Maximum speed of linear change of the block - 6,5°C/s	☐Yes ☐ No	
4.11	Average sampling rate - 3,66°C/s	☐Yes ☐ No	
4.12	Temperature uniformity - 0,4°C	☐Yes ☐ No	
4.13	Temperature accuracy - 0,25°C	☐Yes ☐ No	
4.14	Work time - ~70 minutes to quantify the total amount of amplifiable human DNA in a sample	☐Yes ☐ No	

4.15	Colour compatibility (name) - FAM/SYBR Green, VIC/JOE/HEX/TET, ABY*/NED/TAMRA/ Cy3, JUN*, ROX/Texas Red, MUSTANG PURPLE, Cy5/LIZ, Cy5.5	☐Yes ☐ No	
4.16	Chemical capabilities - **Rapid/standard	☐Yes ☐ No	
4.17	Number of copies - 1 copy	☐Yes ☐ No	
4.18	Sensitivity - detection of 1.5-fold differences in the target amount in single reactions	☐Yes ☐ No	
5	**Cartridge for sequencing system and fragment analysis or equivalent - 2 PCS,** **Rubber covers for containers with SeqStudio cathodic buffer or equivalent (20 pcs in one pack) - 2 Packs**	☐Yes ☐ No	
5.1	Cartridges - should contain capillaries, universal polymer, buffer and pump.	☐Yes ☐ No	
5.2	Length of the capillaries - 28 cm	☐Yes ☐ No	
5.3	Number of injections - at least 250 for each capillary	☐Yes ☐ No	
5.4	Number of capillaries in the cartridge - at least 4	☐Yes ☐ No	
5.5	Cartridge design - is designed for Sanger sequencing and fragment analysis	☐Yes ☐ No	
5.6	Buffer - compatible with the genetic analyser system	☐Yes ☐ No	
6	**Cathode buffer container Seqstudio or or equivalent - 3 PCS**		
6.1	Buffer solution - cathodic buffer solution for conducting electrophoresis in a polymer medium	☐Yes ☐ No	
6.2	Buffer - fully ready to use	☐Yes ☐ No	
6.3	Number of bottles in a pack - at least 4	☐Yes ☐ No	
7	**MicroAmp 96-Well Reaction Plate or equivalent - 6 Packs**	☐Yes ☐ No	
7.1	96-well plate for electrophoresis on genetic analysers. Plates should be compatible with the PCR system and with the systems of genetic analysers - number of plates in a package is at least 10 pcs/package. Number of cells in a plate is 96. Volume of the plate cell is 0.2 ml.	☐Yes ☐ No	
8	**MicroAmp Optical 8-tube Strip or equivalent - 2 Packs**	☐Yes ☐ No	
8.1	Optical tube strip for PCR. Tubes should be certified for being DNase- and RNase- free. 8 tubes in a strip. Number of strips in a pack at least 125.	☐Yes ☐ No	
8.2	Tubes should be compatible with the MicroAmp Optical 8-Cap Strip or equivalent. Tubes should be compatible with the real-time PCR system. Tube volume of at least 0,2 ml.	☐Yes ☐ No	
9	**MicroAmp Optical 8- Cap Strip or equivalent - 1 Pack**	☐Yes ☐ No	
9.1	Optical cap strips for PCR. Caps should be certified for being DNase- and RNase- free. Caps should be compatible with MicroAmp Optical 8-Tube Strip. 8 caps per strip. Number of strips in a pack at least 300.	☐Yes ☐ No	
10	**96-Well Plate Septa or equivalent - 3 packs**	☐Yes ☐ No	

10.1	eqStudioTM Cathode Buffer Container Septa, 20 items/package or equivalent. Special rubber coating for use with genetic analysers Should be compatible with 96-well plates Plates should be compatible with the PCR system and with the systems of genetic analysers	☐Yes ☐ No	
11	**Hi-Di Formamide or equivalent - 3 Bottles**	☐Yes ☐ No	
11.1	Highly purified reagent for maintaining DNA in a denatured state. Formamide should include a stabilizer. Reagent volume of at least 25 ml	☐Yes ☐ No	
11.2	Proteinase K powder (≥30 U/mg), 100 mg	☐Yes ☐ No	
11.3	Reagent - aimed at sample preparation	☐Yes ☐ No	
11.4	Reagent - fully ready for use	☐Yes ☐ No	
11.5	Reagent volume - 100 mg	☐Yes ☐ No	
11.6	Concentration - ≥30 U/mg	☐Yes ☐ No	
12	**GeneScan-600 LIZ Size Standard, 800 Loads or equivalent - 2 PCS**	☐Yes ☐ No	
12.1	A mixture of artificially synthesized oligonucleotide fragments with a length of 20 to 600 base pairs, which ensures 36 single-stranded marked fragments: 20, 40, 60, 80, 100, 114, 120, 140, 160, 180, 200, 214, 220, 240, 250, 260, 280, 300, 314, 320, 340, 360, 380, 400, 414, 420, 440, 460, 480, 500, 514, 520, 540, 560, 580 and 600.	☐Yes ☐ No	
12.2	DNA fragments. Each of the DNA fragments is marked with the LIZ fluorophore, resulting in a single peak when run under denaturing conditions using an Applied Biosystems 310 / 3100 / 3130 / 3500 series genetic analyser.	☐Yes ☐ No	
12.3	Reagent - fully ready for use	☐Yes ☐ No	
12.4	Number of analyses - at least 800	☐Yes ☐ No	
13	**Proteinase K, powder (≥30 U/mg), 100mg - 2 PCS**	☐Yes ☐ No	
13.1	Reagent for sample preparation	☐Yes ☐ No	
13.2	Reagent - fully ready for use	☐Yes ☐ No	
13.3	Reagent volume - 100 mg	☐Yes ☐ No	
13.4	Concentration - ≥30 U/mg	☐Yes ☐ No	
14	**Thin-walled, frosted lid, Rnase- free 0,2 ml PCR tubes - 2 Packs**	☐Yes ☐ No	
14.1	Tubes should have a flat surface for inscriptions. Tubes should be certified for being DNase- and RNase- free. Number of tubes in pack at least 1000 pcs/pack. Volume 0,2 ml	☐Yes ☐ No	
15	**Quantifiler Trio DNA Quantification Kit or equivalent - 4 PCS**	☐Yes ☐ No	

15.1	Kit is designed for amplification and quantitative assessment of human DNA, as well as the degree of its degradation in forensic samples. Kit should contain an amplification reaction mixture, a human DNA standard, a mixture of primers and fluorescent probes. Short and long autosomal multicopy targets are used for analysis. Possibility of assessing the level of degradation of the analysed DNA. Confirmation that the proposed kit is validated in accordance with internationally recognized standards of SWGDAM (to provide a copy of the validation certificate). Number of reactions is at least 400. Minimum detectable concentration of DNA in the sample is no more than 5 pg/µl	☐Yes ☐ No	
15.2	Validation. Kit should be validated for use with a real-time PCR system.	☐Yes ☐ No	
16	**PrepFiler Forensic DNA Extraction Kit or equivalent - 2 Packs**	☐Yes ☐ No	
16.1	DNA extraction technology based on magnetic particles. Kit is fully ready-to-use and is specifically designed for the extraction of DNA from most forensic samples, such as physiological fluids and their stains. Lysing buffer, magnetic particles, two washing buffers, and elution buffer are included in the kit. Confirmation that the proposed kit is validated in accordance with internationally recognized DAB / SWGDAM standards (to provide a copy of the validation certificate). Number of reactions is at least 100	☐Yes ☐ No	
17	**Reagent kit for automatic extraction of DNA Prepfiler Express Forensic or equivalent - 6 PCS**	☐Yes ☐ No	
17.1	DNA extraction technology based on magnetic particles. Kit is fully ready-to-use and suitable for most standard objects such as blood, human fluid stains, buccal epithelium, tissues, etc. Special cartridges with foil, lysing buffer, and magnetic particles are included in the kit. Kit should be compatible with the Automate Express nucleic acid extraction system. Confirmation that the proposed kit is validated as per internationally recognized DAB / SWGDAM standards (to provide a copy validation certificate). Number of reactions is at least 52	☐Yes ☐ No	
18	**Reagent kit for automatic extraction of DNA PrepFiler Express BTA or equivalent - 6 PCS**	☐Yes ☐ No	
18.1	DNA extraction technology based on magnetic particles. Kit is fully ready-to-use and specially developed for difficult objects such as bones, teeth and adhesive materials, including sticky tape and cigarette buds. Kit should be compatible with the Automate Express nucleic acid extraction system. Number of reactions is at least 52	☐Yes ☐ No	
18.2	Validation - kit should be validated for use with a real-time PCR system	☐Yes ☐ No	
19	**Bone DNA extraction kit PrepFiler Express BTA or equivalent - 2 PCS**	☐Yes ☐ No	
19.1	Kit is fully ready-to-use and specially developed for difficult objects such as bones, teeth and adhesive materials, including sticky tape and cigarette buds. Number of reactions is at least 100	☐Yes ☐ No	
19.2	Format - filter column, pipes	☐Yes ☐ No	

19.3	Isolation technology - magnetic bead	☐Yes ☐ No	
19.4	Sample type - forensic sample	☐Yes ☐ No	
19.5	Validation - kit should be validated for use with a real-time PCR system	☐Yes ☐ No	
20	**Genetic identification kit GlobalFiler IQC PCR Amplification Kit or equivalent - 2 PCS**	☐Yes ☐ No	
20.1	Kit is intended for the study of STR loci of human DNA in accordance with the CODIS and ESS recommendations. Kit is designed for multiplex PCR Kit for human DNA analysis by at least 22 STR loci and the amelogenin sex marker. The kit should contain the following STR loci: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, VWA, TPOX, D18S51, D5S818, FGA, D2S441, D22S1045, SE33, D10S1248, D1S1656, D12S391, DYS391. Additional loci are possible. Kit should be adapted to the 6-colour system for analysing PCR products using genetic analysers. Kit should contain a reaction mixture, a mixture of primers and fluorescent probes, an allelic ladder, control DNA. Kit should include a sample quality control system that allows distinguishing degradable objects from objects containing PCR inhibitors Kit should be validated for use in forensic laboratories in accordance with the internationally recognized SWGDAM standards (to provide a copy of the validation certificate). Number of reactions is at least 200	☐Yes ☐ No	
21	**DNA Decontamination Reagent (2 bottles * 250 ml per pack) - 2 Packs**	☐Yes ☐ No	
21.1	Reagent is used to destroy high levels of DNA and RNA contamination. Suitable for cleaning PCR tubes, pipettes, laboratory furniture.	☐Yes ☐ No	
22	**Scope of work** The bidder shall be responsible for testing the goods under this lot and for the delivery of the goods to the Consignee's address in Kyiv. The installation is not included in the scope of work.	☐Yes ☐ No	
23	**Compatibility requirements** **All expendables offered under the lot must be compatible with the equipment offered within the lot.**	☐Yes ☐ No	
24	**Availability of the expendables for purchase in Ukraine** The Bidder shall propose only the expendables which are available for further procurement/ replenishment of reserve from official manufacturer's representatives **in Ukraine**	☐Yes ☐ No	
25	**Information about storage conditions** UNOPS will request the selected Bidder to provide the information about the storage conditions required for the equipment and expendables (storage facility size, temperature, humidity etc). UNOPS will share that information with the Consignee, in order to ensure that the equipment is properly stored. The contract with the Bidder will be signed after the Consignee confirms readiness to store the equipment in suitable conditions.	☐Yes ☐ No	

26	**The period of validity of the Warranty** The warranty shall remain valid for 24 (twenty-four) months for the Equipment, or any portion thereof as the case may be, have been delivered to and accepted at the final destination. The Warranty should include preventive maintenance, replacement of defective parts/equipment, repair of equipment, labour for equipment repair and/or parts replacement.	☐Yes ☐ No	
27	**Service Centre for the warranty service** The selected Bidder shall provide an authorised service centre **located in Ukraine** which will provide the warranty services for the equipment. The title of the service centre, its address, telephone- and fax numbers, e-mail address must be mentioned in the bid. All costs connected with warranty maintenance shall be covered by the Bidder.	☐Yes ☐ No	Please insert name and contact details of the service centre
28	**Technical documentation for maintenance and repair of the supplied goods** For each offered equipment item, the Bidder shall provide the technical documentation including instructions for performing maintenance of the supplied Goods by the technical staff of the Consignee. Such documentation shall include all necessary technical specifications of the devices and their parts, troubleshooting information, safety instructions, etc. that will allow the technical staff of the Consignee and/or end-users to conduct maintenance and in strict compliance with Specifications. The minimum set of technical documents to be provided with each piece of equipment delivered is the following: • User Manual and Operating Instructions (in English or Ukrainian) • Technical Certificate / maintenance guidelines (in Ukrainian or English) The Bidder is required to confirm the list and contents of documentation to be provided together with the Goods at the delivery. All tags/labels on the equipment shall be in English or Ukrainian language.	☐Yes ☐ No	
29	**Bid includes brand/model of the equipment and manufacturer's technical literature/catalogue, all confirming that the offered items comply with required specifications.**	☐Yes ☐ No	

Delivery requirements for Lot 1 DNA Forensic lab equipment

UNOPS Requirements		Is bid compliant? Bidder to complete	Details Bidder to complete
Delivery time	The Bidder shall deliver the goods within 60 days after the contract signing. Partial delivery of the items on batches within this period is acceptable.	☐Yes ☐ No	

Delivery place and Incoterms rules	DAP customs cleared, Kyiv, Ukraine. Delivery Address: 9 Oranzhereyna St., Kyiv, Ukraine (3rd floor). The Consignee will provide the letter(s) for the customs clearance/tax exemption of the goods. The bidder will be responsible for covering the demurrage costs, if any.	☐Yes ☐ No	
Consignee details	9 Oranzhereyna St., Kyiv, Ukraine 04112 The Supplier will be responsible for offloading and bringing the goods to the Consignee's storage facility (3rd floor).	☐Yes ☐ No	
UNOPS Right to vary requirements	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 +/- 20%, without any change in the unit prices or other terms and conditions of the RFQ.	☐Yes ☐ No	
Warranty	**The warranty shall be provided for 24 months after delivery of the equipment.** The installation, assembling, maintenance and training will **not** be covered by the scope of the contract with UNOPS. Within the warranty period, the selected Bidder's authorised service centre **located in Ukraine** shall provide maintenance and/or repair services to the equipment operation site not later than 10 (ten) workdays from the date of receipt of written or E-mail notification from the Consignee. The title of the service centre, its address, telephone- and fax numbers, e-mail address must be mentioned in the bid. The service centre shall have at least one certified engineer in its staff. All costs connected with warranty maintenance shall be covered by the Bidder. Any items found unacceptable shall be returned and changed at no costs to UNOPS.	☐Yes ☐ No	
Packing standards	Bidder shall remain liable for the packing and consistency of the items supplied for the period of shipment and acceptance for use. Bidder shall ensure the best international packing standards of goods supplied, including use of eco-friendly packing materials. The Bidder shall ensure that all items packed inside each box as well as their quantities and transportation/storage requirements for those items are listed on stickers placed at the box in English or Ukrainian languages.	☐Yes ☐ No	

Lot 2

Technical specifications for Goods for Lot 2 Laboratory instruments and equipment

N	UNOPS minimum technical requirements	Is quotation compliant?	Details of goods offered. Bidder to complete

		Bidder to complete	
1	**Magnetic stand - 1 PCS**	☐Yes ☐ No	Insert details
1.1	Magnet designed for separation in standard microcentrifuge tubes - at least 16 tubes	☐Yes ☐ No	
1.2	Optimal working volume - 10–2000 µl	☐Yes ☐ No	
1.3	Microcentrifuge tubes - holds up to 16 standard 1.5-2 ml microcentrifuge tubes in numbered cells	☐Yes ☐ No	
1.4	The top stand - should be removable from the magnet in the base, ready for resuspension by shaking, spinning, or manual shaking of the sample.	☐Yes ☐ No	
2	**Water purification system - 1st and 3rd class (bidistiller) - 1 PCS**	☐Yes ☐ No	
2.1	Bidistiller - available	☐Yes ☐ No	
2.2	Designed for obtaining distillate and bidistillate - conformity	☐Yes ☐ No	
2.3	Productivity of the distiller, l/h, at least - 8,0	☐Yes ☐ No	
2.4	Specific conductivity of monodistillate at 25°C, µS/cm (approx.) - 2,2	☐Yes ☐ No	
2.5	Specific conductivity of bidistillate at 25°C, µS/cm (approx.) - 1,6	☐Yes ☐ No	
2.6	Water pressure (minimum - maximum), bar - 3-7	☐Yes ☐ No	
2.7	Voltage, V - 400/3 phases	☐Yes ☐ No	
2.8	Measuring unit	☐Yes ☐ No	
2.9	Cooled water consumption, l/min, no more than - 3,3	☐Yes ☐ No	
2.10	Desktop version with adjustable supports and the possibility of wall mounting - conformity	☐Yes ☐ No	
2.11	Taking monodistillate through a faucet - conformity	☐Yes ☐ No	
2.12	Taking bidistillate through a tap with a dust cap - conformity	☐Yes ☐ No	
2.13	Condenser - conformity	☐Yes ☐ No	
2.14	Degassing CO2 - conformity	☐Yes ☐ No	
2.15	Electronic sensor of contamination - conformity	☐Yes ☐ No	
2.16	Distillate evaporator is easily accessible for cleaning - conformity	☐Yes ☐ No	
2.17	Electronic water level control system - automatic	☐Yes ☐ No	
2.18	Heating element and evaporator of the distiller - made of stainless steel	☐Yes ☐ No	
2.19	Protection against overheating - available	☐Yes ☐ No	
2.20	Possibility of stationary connection to water supply - -available	☐Yes ☐ No	
2.21	Possibility of further completion with phosphate and dechlorinating filters - cartridges for cleaning from chlorine - available	☐Yes ☐ No	
3	**UV box for preparation (conducting PCR), type 1 - 1 PCS**	☐Yes ☐ No	
3.1	Table top box for sterile work for clean work with DNA samples, which ensures protection against contamination - available	☐Yes ☐ No	
3.2	Box wall material - glass	☐Yes ☐ No	
3.3	Work surface material - stainless steel	☐Yes ☐ No	

3.4	Open type UV lamp - 2 × 30 W bactericidal built-in lamps UV-C, TUV 30W 1SL/25	☐Yes ☐ No	
3.5	Intensity of UV radiation - 18 mW / cm^2 / s	☐Yes ☐ No	
3.6	Type of radiation - Ultraviolet (λ = 253,7 nm), without ozone	☐Yes ☐ No	
3.7	Digital setting of direct UV radiation time - 1 min – 24 h /non-stop	☐Yes ☐ No	
3.8	UV recirculator - 1 × 30 W (efficiency of >99% for 1 h)	☐Yes ☐ No	
3.9	Lamp for lighting box's work surface - 1 × TLD-30W	☐Yes ☐ No	
3.10	Thickness of the side walls -min 4 mm	☐Yes ☐ No	
3.11	Thickness of the front wall - min 8 mm	☐Yes ☐ No	
3.12	Thickness of the protective screen -min 5 mm	☐Yes ☐ No	
3.13	Light penetration - min 0.95	☐Yes ☐ No	
4	**UV box for preparation (conducting PCR), type 2 - 1 PCS**	☐Yes ☐ No	
4.1	Table top box for sterile work for clean work with DNA samples, which ensures protection against contamination - available	☐Yes ☐ No	
4.2	Box wall material - plexiglas	☐Yes ☐ No	
4.3	Work surface material - stainless steel, which is covered with powder enamel	☐Yes ☐ No	
4.4	Open type UV lamp - 1 × 25 W bactericidal built-in lamp UV-C, TUV 25W 1SL/25	☐Yes ☐ No	
4.5	Intensity of UV radiation - 18 mW / cm^2 / s	☐Yes ☐ No	
4.6	Type of radiation - Ultraviolet (λ = 253,7 nm), without ozone	☐Yes ☐ No	
4.7	Digital setting of direct UV radiation time - 1 min – 24 h /non-stop	☐Yes ☐ No	
4.8	Lamp for lighting box's work surface - 1 × TLD-30W	☐Yes ☐ No	
4.9	Thickness of the side walls - min4 mm	☐Yes ☐ No	
4.10	Thickness of the front wall -min 8 mm	☐Yes ☐ No	
4.11	Thickness of the protective screen - min 8 mm	☐Yes ☐ No	
4.12	Light penetration - 0.92	☐Yes ☐ No	
4.13	UV protection from direct UV radiation - >99,90%	☐Yes ☐ No	
4.14	Opening dimensions (protective screen fully raised) - min 645 × 165 mm	☐Yes ☐ No	
4.15	Safety measures - automatic shutdown when the protective screen is open	☐Yes ☐ No	
4.16	Power supply inside of the box - input for power cords	☐Yes ☐ No	
5	**Laminar cabinet - 1 PCS**	☐Yes ☐ No	
5.1	Class - class 2 laminar cabinet used to protect the operator, the environment and work samples.	☐Yes ☐ No	
5.2	Work surface width - 1200 mm	☐Yes ☐ No	
5.3	Height and depth of the working chamber - 780 x 630 mm	☐Yes ☐ No	
5.4	HEPA filter H14 - 2 pcs	☐Yes ☐ No	
5.5	Ventilator - 2 pcs	☐Yes ☐ No	
5.6	Ratio of ascending and descending air flows - 30 / 70	☐Yes ☐ No	
5.7	UV radiation - yes, with timer	☐Yes ☐ No	
5.8	Work surface - stainless steel	☐Yes ☐ No	

5.9	Sockets -2 pcs	☐Yes ☐ No	
5.10	Noise level < 55 / <59 dB	☐Yes ☐ No	
5.11	Power capacity - up to 200 W	☐Yes ☐ No	
5.12	Microprocessor control of air flows - available	☐Yes ☐ No	
6	**Centrifuge - 1 PCS**	☐Yes ☐ No	
6.1	Capacity - 24 x 1,5/2 ml	☐Yes ☐ No	
6.2	Maximum RKF - 17 000 x g	☐Yes ☐ No	
6.3	Temperature range - ambient temperature	☐Yes ☐ No	
6.4	Type - desktop centrifuge, ventilating	☐Yes ☐ No	
6.5	Standards - IEC 61010-1, IEC 61010-2-020	☐Yes ☐ No	
6.6	Rotor - 24 1.5/2ml rotors with Clickseal lid for bioprotection	☐Yes ☐ No	
6.7	Maximum speed - 13 300 rotations/min	☐Yes ☐ No	
6.8	Noise level - 56 dB(A)	☐Yes ☐ No	
6.9	Certificates - conformity	☐Yes ☐ No	
7	**Thermo laboratory centrifuge - 1 PCS**	☐Yes ☐ No	
7.1	Centrifuge that allows the use of 2 types of rotors - horizontal and vertical	☐Yes ☐ No	
7.2	Maximum/minimum speed - 4900/300 rotations/min	☐Yes ☐ No	
7.3	Maximum capacity of the rotor - 8x15ml (angle rotor) 8x10 ml (horizontal rotor)	☐Yes ☐ No	
7.4	Maximum acceleration, g - 3114 (angle rotor) 3490 (horizontal rotor)	☐Yes ☐ No	
7.5	Timer - from 1 to 99 min +, continuous centrifugation mode	☐Yes ☐ No	
7.6	Acceleration time - 24 s (angle rotor) 24 s (horizontal rotor)	☐Yes ☐ No	
7.7	Stopping time - 37 s (angle rotor) 31 s (horizontal rotor)	☐Yes ☐ No	
8	**Thermostat for 1.5ml tubes with heating functions up to 100 °C - 1 PCS**	☐Yes ☐ No	
8.1	Thermostat type - solid-state thermostat used for setting up PCR analysis - to maintain a constant temperature of samples in tubes.	☐Yes ☐ No	
8.2	Temperature control range - from 50C above room temperature up to 120C	☐Yes ☐ No	
8.3	Heating time - from 25 to 37C – 4 min; from 25 to 120C – 25 min	☐Yes ☐ No	
8.4	Block - 21 tubes of 0,5 ml + 32 tubes of 1,5 cm + 50 tubes of 0,2 ml	☐Yes ☐ No	
8.5	Temperature setting step, °C 0,1	☐Yes ☐ No	
8.6	Temperature stability, °C ±0,1	☐Yes ☐ No	
8.7	Evenness of temperature distribution at 37°C, °C ±0,1	☐Yes ☐ No	
9	**Thermal shaker - 1 PCS**	☐Yes ☐ No	
9.1	Thermal shaker type: thermal shaker is used for intensive mixing of samples in microtubes under thermostatic conditions. The functions of heating (up to +100°C) and mixing are performed both simultaneously and independently. It is used in sample preparation for DNA analysis.	☐Yes ☐ No	
9.2	Temperature setting range +25°C ... +100°C	☐Yes ☐ No	

9.3	Temperature control range 5°C above room temperature ... +100°C	☐Yes ☐ No	
9.4	Temperature setting step 0,1°C	☐Yes ☐ No	
9.5	Temperature stability±0,1°C	☐Yes ☐ No	
9.6	Temperature accuracy at +37°C±0,5°C	☐Yes ☐ No	
9.7	Average heating rate in the range +25°C...+100°C 4°C/min	☐Yes ☐ No	
9.8	Evenness of temperature distribution across the block at +37°C ±0,1°C	☐Yes ☐ No	
9.9	Evenness of temperature distribution across the block at +100°C ±0,2°C	☐Yes ☐ No	
9.10	Temperature coefficient calibration range 0.936...1.063 (± 0.063)	☐Yes ☐ No	
9.11	Speed control range 250–1400 rotations/min	☐Yes ☐ No	
9.12	Digital time setting 1 min–96 h (step of 1 min)	☐Yes ☐ No	
9.13	Timer sound signal - available	☐Yes ☐ No	
9.14	Orbit 2 mm	☐Yes ☐ No	
9.15	Microprocessor that controls time, speed and temperature - available	☐Yes ☐ No	
9.16	Maximum time of continuous operation 168 h	☐Yes ☐ No	
10	**Rack for Microtubes, 1,5-2,0 ml microtubes - 5 PCS**		
10.1	Stand for microtubes, green, which can be autoclaved and frozen.1,5-2,0 ml, 80 numbered nests (16 rows, each with 5 nests)	☐Yes ☐ No	
11	**A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 0.2 µl-2 µl - 4 PCS**	☐Yes ☐ No	
11.1	Pipette dispenser type - mechanical	☐Yes ☐ No	
11.2	Pipette-dispenser should be equipped with a piston to reset the tips - available	☐Yes ☐ No	
11.3	Pipette-dispenser should be equipped with a dosage regulator - available	☐Yes ☐ No	
11.4	Pipette-dispenser should be equipped with an indication of the set dosage volume - available	☐Yes ☐ No	
11.5	Pipette dispenser should support the possibility of autoclaving without disassembling the dispenser - available	☐Yes ☐ No	
11.6	Discreteness of setting the dosing volumes of the pipette dispenser - 0.1 µl	☐Yes ☐ No	
12	**A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 2 µl-20 µl - 5 PCS**	☐Yes ☐ No	
12.1	Pipette dispenser type - mechanical	☐Yes ☐ No	
12.2	Pipette-dispenser should be equipped with a piston to reset the tips - available	☐Yes ☐ No	
12.3	Pipette-dispenser should be equipped with a dosage regulator -	☐Yes ☐ No	

	available		
12.4	Pipette-dispenser should be equipped with an indication of the set dosage volume - available	☐Yes ☐ No	
12.5	Pipette dispenser should support the possibility of autoclaving without disassembling the dispenser - available	☐Yes ☐ No	
12.6	Discreteness of setting the dosing volumes of the pipette dispenser - 1 µl	☐Yes ☐ No	
13	**A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 100 µl-1000 µl - 5 PCS**	☐Yes ☐ No	
13.1	Pipette dispenser type - Mechanical	☐Yes ☐ No	
13.2	Pipette-dispenser should be equipped with a piston to reset the tips - Available	☐Yes ☐ No	
13.3	Pipette-dispenser should be equipped with a dosage regulator - Available	☐Yes ☐ No	
13.4	Pipette-dispenser should be equipped with an indication of the set dosage volume - Available	☐Yes ☐ No	
13.5	Pipette dispenser should support the possibility of autoclaving without disassembling the dispenser - Available	☐Yes ☐ No	
13.6	Discreteness of setting the dosing volumes of the pipette dispenser - 5 µl	☐Yes ☐ No	
14	**A pipette-dispenser with the possibility of setting the dosage of the liquid volume in the range of 20 µl-200 µl - 5 PCS**	☐Yes ☐ No	
14.1	Pipette dispenser type - mechanical	☐Yes ☐ No	
14.2	Pipette-dispenser should be equipped with a piston to reset the tips - available	☐Yes ☐ No	
14.3	Pipette-dispenser should be equipped with a dosage regulator - available	☐Yes ☐ No	
14.4	Pipette-dispenser should be equipped with an indication of the set dosage volume - available	☐Yes ☐ No	
14.5	Pipette dispenser should support the possibility of autoclaving without dis-assembling the dispenser - available	☐Yes ☐ No	
15	**Table stand for pipette dispensers - 4 PCS**	☐Yes ☐ No	
16	**Barrier (Filter) Tips, 10 µl size - 3 PCS**	☐Yes ☐ No	
16.1	Tips should have a system of hydrophobic filters to avoid cross-contamination. Tips should be compatible with Eppendorf and Finn-pipette automatic dispensers. Tips should be certified as DNase-and RNase- free.Number of tips in the package is at least 960 pcs. / pack. Volume of the tip is 0.2-10 µl. Length of the tip is at least 5.0 cm	☐Yes ☐ No	
17	**Barrier (Filter) Tips, 200 µl size - 6 PCS**	☐Yes ☐ No	
17.1	Tips should have a system of hydrophobic filters to avoid cross-contamination. Tips should be compatible with Eppendorf	☐Yes ☐ No	

	and Finn-pipette automatic dispensers. Tips should be certified as DNase-and RNase- free.Number of tips in the package is at least 960 pcs. / pack Volume of the tip is 1-200 µl.		
18	**Barrier (Filter) Tips, 1000 µL size - 3 PCS**	☐Yes ☐ No	
18.1	Tips should have a system of hydrophobic filters to avoid cross-contamination. Tips should be compatible with Eppendorf and Finn-pipette automatic dispensers. Tips should be certified as DNase-and RNase- free. Number of tips in the package is at least 960 pcs. / pack. Volume of the tip is 100-1000 µl.	☐Yes ☐ No	
19	**1,5 ml Rnase-free Microfuge Tubes or equivalent - 3 PCS**	☐Yes ☐ No	
19.1	Microcentrifuge polypropylene tubes with a conical bottom and a resistance edge. Tubes should have a flat surface for inscriptions. Tubes should be certified as DNase-and RNase-free.Number of tubes in the package is at least 1000 pcs. / pack Volume of the tube is at least 1,5 ml.	☐Yes ☐ No	
20	**Eppendorf 2,0 ml Rnase-free Microfuge Tubes or equivalent - 3 PCS**	☐Yes ☐ No	
20.1	Microcentrifuge polypropylene tubes with a conical bottom and a resistance edge. Tubes should have a flat surface for inscriptions. Tubes should be certified as DNase-and RNase-free.Number of tubes in the package is at least 1000 pcs. / pack Volume of the tube is at least 2.0 ml.	☐Yes ☐ No	
21	**Laboratory Fridge with freezer up to -20 degrees Celsius - 2 PCS**	☐Yes ☐ No	
21.1	Type - combination Refrigerator/Freezer	☐Yes ☐ No	
21.2	Freezer capacity - min 100 L	☐Yes ☐ No	
21.3	Refrigerator capacity - min 150 L	☐Yes ☐ No	
21.4	Temperature Range (Freezer) "-10°C to -20°C"	☐Yes ☐ No	
21.5	Temperature Range (Refrigerator) - "1°C to 11°C"	☐Yes ☐ No	
21.6	Shelves number (Refrigerator) - 3	☐Yes ☐ No	
21.7	Shelves number (Freezer) - 1	☐Yes ☐ No	
21.8	Number of doors - 2	☐Yes ☐ No	
21.9	Monitoring Options - alarm	☐Yes ☐ No	
22	**Magnetic mixer - 1 PCS**	☐Yes ☐ No	
22.1	Speed control range - 0-3000 rotations/min	☐Yes ☐ No	
22.2	Maximum mixing volume (water) - 5 l	☐Yes ☐ No	
22.3	Max. size of the mixed element - 50 mm	☐Yes ☐ No	
22.4	Max. viscosity coefficient of the mixed liquid - up to 1170 mPa×s	☐Yes ☐ No	
22.5	Maximum time of continuous operation 24 h	☐Yes ☐ No	
22.6	Operating temperature range at room temperature from +4°C to +40°C	☐Yes ☐ No	
22.7	Work surface material - stainless steel	☐Yes ☐ No	

23	**Vortex mini centrifuge - 2 PCS**	☐Yes ☐ No	
23.1	Centrifuge type. Mini-centrifuge/vortex for genetic engineering research (for PCR-diagnostic experiments) that ensures simultaneous mixing and separation of samples using the centrifuge and mixing modules. "Open type" centrifuge.	☐Yes ☐ No	
23.2	Rotation speed (fixed) (50 Hz) 2800 rotations/min	☐Yes ☐ No	
23.3	Maximum RCF (50 Hz) 500 x g	☐Yes ☐ No	
23.4	Rotation speed (fixed) (60Hz) 3500 rotations/min	☐Yes ☐ No	
23.5	Maximum RCF (60 Hz) 700 x g	☐Yes ☐ No	
23.6	Continuous and impulse modes of operation - availability	☐Yes ☐ No	
23.7	Power capacity (230 V / 120 V):25 W (0,1 A) / 30 W (0,27 A)	☐Yes ☐ No	
23.8	Nominal operating voltage:20 or 230 V; 50/60 Hz	☐Yes ☐ No	
24	**Bactericidal flowing recirculatory - 5 PCS**	☐Yes ☐ No	
24.1	Features. It is used for air disinfection in the laboratory. Ensures complete protection against direct UV radiation.	☐Yes ☐ No	
24.2	UV radiation source: 1 lamp - 25 W, bactericidal UV-C, TUV 25W 1SL/25	☐Yes ☐ No	
24.3	UV radiation intensity:18 mW / cm^2 / s	☐Yes ☐ No	
24.4	Radiation type Ultraviolet (λ = 253,7 nm), without ozone	☐Yes ☐ No	
24.5	Performance with a standard filter 21 m^3 / h	☐Yes ☐ No	
24.6	Full protection against direct ultraviolet radiation - availability	☐Yes ☐ No	
24.7	UV lamp operation indicator - availability	☐Yes ☐ No	
24.8	Lamp service life - 9000 h	☐Yes ☐ No	
25	**Scope of work** The bidder shall be responsible for testing the equipment and for the delivery of the goods to the Consignee's address in Kyiv. The commissioning/installation, assembling and training will **not** be covered by the scope of the contract with UNOPS.	☐Yes ☐ No	
26	**Information about storage conditions** UNOPS will request the selected Bidder to provide the information about the storage conditions required for the equipment (storage facility size, temperature, humidity). UNOPS will share that information with the Consignee, in order to ensure that the equipment is properly stored and to avoid any potential issue during the installation. The contract with the Bidder will be signed after the Consignee confirms readiness to store the equipment in suitable conditions.	☐Yes ☐ No	
27	**The period of validity of the Warranty** The warranty shall remain valid for **twenty-four (24)** months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination. The Warranty should include preventive maintenance, replacement of defective parts/equipment, repair of equipment, labour for equipment repair and/or parts replacement.	☐Yes ☐ No	

28	**Service Centre for the warranty service** **T**he selected Bidder shall provide an authorised service centre **located in Ukraine** which will provide the warranty services for the equipment. The title of the service centre, its address, telephone- and fax numbers, e-mail address must be mentioned in the bid. All costs connected with warranty maintenance shall be covered by the Bidder.	☐Yes ☐ No	Please insert name and contact details of the service centre
29	**Technical documentation for maintenance and repair of the supplied goods** For each offered item, the Bidder shall provide the technical documentation including instructions for performing maintenance of the supplied goods by the technical staff of the Consignee. Such documentation shall include all necessary technical specifications of the devices and their parts, troubleshooting information, safety instructions, etc. that will allow the technical staff of the Consignee and/or end-users to conduct maintenance and in strict compliance with goods specifications. The minimum set of technical documents to be provided with each piece of equipment delivered is the following: • User Manual and Operating Instructions (in English or Ukrainian) • Technical Certificate / maintenance guidelines (in Ukrainian or English) The Bidder is required to confirm the list and contents of documentation to be provided together with the Goods at the delivery. All tags/labels on the equipment shall be in English or Ukrainian language.	☐Yes ☐ No	
30	**Bid includes brand/model of the equipment and manufacturer's technical literature/catalogue, all confirming that the offered items comply with required specifications.**	☐Yes ☐ No	

Delivery requirements for Lot 2 Laboratory instruments and equipment

UNOPS Requirements		Is the bid compliant? Bidder to complete	Details Bidder to complete
Delivery time	The Bidder shall deliver the goods within 60 days after the contract signing**.** Partial delivery of the items on batches within this period is acceptable.	☐Yes ☐ No	
Delivery place and Incoterms rules	DAP customs cleared, Kyiv, Ukraine. Delivery Address: 9 Oranzhereyna St., Kyiv, Ukraine (3rd floor). The Consignee will provide the letter(s) for the customs clearance/tax exemption of the goods. The bidder will be responsible for covering the demurrage costs, if any.	☐Yes ☐ No	
Consignee details	9 Oranzhereyna St., Kyiv, Ukraine 04112 The Supplier will be responsible for offloading and bringing the goods to the Consignee's storage facility (3rd floor).	☐Yes ☐ No	

UNOPS Right to vary requirements	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 +/- 20%, without any change in the unit prices or other terms and conditions of the RFQ.	☐Yes ☐ No	
Warranty	**The warranty shall be provided for 24 months after delivery of the equipment.** The installation, assembling, maintenance and training will **not** be covered by the scope of the contract with UNOPS. Within the warranty period, the selected Bidder's authorised service centre **located in Ukraine** shall provide maintenance and/or repair services to the equipment operation site not later than 10 (ten) workdays from the date of receipt of written or E-mail notification from the Consignee. The title of the service centre, its address, telephone- and fax numbers, e-mail address must be mentioned in the bid. The service centre shall have at least one certified engineer in its staff. All costs connected with warranty maintenance shall be covered by the Bidder. Any items found unacceptable shall be returned and changed at no costs to UNOPS.	☐Yes ☐ No	
Packing standards	Bidder shall remain liable for the packing and consistency of the items supplied for the period of shipment and acceptance for use. Bidder shall ensure the best international packing standards of goods supplied, including use of eco-friendly packing materials. The Bidder shall ensure that all items packed inside each box as well as their quantities and transportation/storage requirements for those items are listed on stickers placed at the box in English or Ukrainian languages.	☐Yes ☐ No	

Lot 3

Technical specifications for Goods for Lot 3 Laboratory Furniture

N	UNOPS minimum technical requirements	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
1	**Lab desk - 1 PCS**	☐Yes ☐ No	**Insert details**
1.1	The lab desk is based on a collapsible frame of steel rectangular pipes (section 60x30x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
1.2	Adjustable supports (0-30 mm) are provided in the frame to compensate for uneven floors.	☐Yes ☐ No	
1.3	Max. distributed load on the working surface is 350 kgf/m².	☐Yes ☐ No	
1.4	Desk working surface material: solid chemically resistant plastic without a border.	☐Yes ☐ No	
1.5	Dimensions (LxDxH), mm: 1500x750x750 (+/- 10%) .	☐Yes ☐ No	
2	**Hanging lab cupboard - 1 PCS**	☐Yes ☐ No	

2.1	The hanging lab cupboard is based on a panel structure of laminated chipboard. All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with - 0.6 mm bands.	☐Yes ☐ No	
2.2	Comes with a fitting to be hung up on the frame of 750 mm high lab desks without screens. Has 3 drawers.	☐Yes ☐ No	
2.3	Dimensions (LxDxH), mm: 500x520x510(+/- 10%)	☐Yes ☐ No	
3	**Working desk - 4 PCS**	☐Yes ☐ No	
3.1	The desk is based on a panel structure of 18 mm thick laminated chipboard. All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with 0.6 mm PVC bands. The tabletop is 25 mm thick.	☐Yes ☐ No	
3.2	On the right the desk is equipped with a stationary cabinet with four drawers. The top drawer has a lock.	☐Yes ☐ No	
3.3	The desk can be adjusted according to the floor level.	☐Yes ☐ No	
3.4	The desk can be adjusted according to the floor level.	☐Yes ☐ No	
3.5	Dimensions (LxDxH), mm: 1500x600x750 (+/- 10%)	☐Yes ☐ No	
4	**Reinforced lab desk (1st type) - 4 PCS**	☐Yes ☐ No	
4.1	The lab desk is based on a collapsible frame of steel rectangular pipes (section 60x30x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
4.2	Adjustable supports (0-30 mm) are provided in the frame to compensate for uneven floors.	☐Yes ☐ No	
4.3	The desk is reinforced and can bear a load of up to 500 kgf/m2.	☐Yes ☐ No	
4.4	Desk working surface material: solid chemically resistant plastic without a border.	☐Yes ☐ No	
4.5	Dimensions (LxDxH), mm: 1500x750x750 (+/- 10%) (for sitting work).	☐Yes ☐ No	
5	**Service extension - 4 PCS**	☐Yes ☐ No	
5.1	The service extension is based on a welded frame of steel rectangular pipes (section 50x25x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
5.2	Next-to-the-wall setting.	☐Yes ☐ No	
5.3	The extension comes with: two shelves, one 10 W LED lamp (IP 20) on the lower shelf with a switch, a light protection panel to protect personnel from direct sunlight, a 1500 mm long electric cable with a Euro plug.	☐Yes ☐ No	
5.4	Shelves working surface material: 16 mm thick high-pressure laminate (moisture-resistant plywood lined with chemical-resistant plastic).	☐Yes ☐ No	
5.5	Dimensions (LxDxH), mm: 1500x270x900 (+/- 10%).	☐Yes ☐ No	
6	**Mobile desk (1st type) - 2 PCS**	☐Yes ☐ No	
6.1	The mobile desk is based on a welded frame of steel rectangular pipes (section 50x25x2 and 25x25x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
6.2	Installed on reinforced rubberized rollers with a motion lock.	☐Yes ☐ No	
6.3	The mobile desk is fitted with a shelf and a handle for ease of transportation.	☐Yes ☐ No	
6.4	Working surface material: solid chemically resistant plastic without a border; shelf surface material: 16 mm thick high-pressure laminate (moisture-resistant plywood lined with chemical-resistant plastic).	☐Yes ☐ No	
6.5	The shelf and the working surface have a 10 mm high metal border.	☐Yes ☐ No	
6.6	Dimensions (LxDxH), mm: 600x500x750 (+/- 10%).	☐Yes ☐ No	

7	**Mobile desk (2nd type) - 1 PCS**	☐Yes ☐ No	
7.1	The mobile desk is based on a welded frame of steel rectangular pipes (section 25x25x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
7.2	Installed on reinforced rubberized rollers with a motion lock.	☐Yes ☐ No	
7.3	The mobile desk is fitted with an overhead table top.	☐Yes ☐ No	
7.4	Working surface material: solid chemically resistant plastic without a border; shelf surface material: 16 mm thick high-pressure laminate (moisture-resistant plywood lined with chemical-resistant plastic).	☐Yes ☐ No	
7.5	Dimensions (LxDxH), mm: 900x600x750(+/- 10%) (low).	☐Yes ☐ No	
8	**Reinforced lab desk (2nd type) - 1 PCS**	☐Yes ☐ No	
8.1	The lab desk is based on a collapsible frame of steel rectangular pipes (section 60x30x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
8.2	Adjustable supports (0-30 mm) are provided in the frame to compensate for uneven floors.	☐Yes ☐ No	
8.3	The desk is reinforced and can bear a load of up to 500 kgf/m2.	☐Yes ☐ No	
8.4	Desk working surface material: solid chemically resistant plastic without a border.	☐Yes ☐ No	
8.5	Dimensions (LxDxH), mm: 900x750x750(+/- 10%) (for sitting work).	☐Yes ☐ No	
9	**Reinforced lab desk (3rd type) - 1 PCS**	☐Yes ☐ No	
9.1	The lab desk is based on a collapsible frame of steel rectangular pipes (section 60x30x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
9.2	Adjustable supports (0-30 mm) are provided in the frame to compensate for uneven floors.	☐Yes ☐ No	
9.3	The desk is reinforced and can bear a load of up to 500 kgf/m2.	☐Yes ☐ No	
9.4	Desk working surface material: solid chemically resistant plastic without a border.	☐Yes ☐ No	
9.5	Dimensions (LxDxH), mm: 600x750x750 (+/- 10%)(for sitting work).	☐Yes ☐ No	
10	**Hanging lab cupboard - 2 PCS**	☐Yes ☐ No	
10.1	The hanging lab cupboard is based on a panel structure of laminated chipboard.	☐Yes ☐ No	
10.2	All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with - 0.6 mm bands.	☐Yes ☐ No	
10.3	Comes with a fitting to be hung up on the frame of 900 mm high lab desks without screens. 4 drawers.	☐Yes ☐ No	
10.4	Dimensions (LxDxH), mm: 600x520x670(+/- 10%) .	☐Yes ☐ No	
11	**Rolling lab cupboard (1st type) - 3 PCS**	☐Yes ☐ No	
11.1	The rolling lab cupboard is based on a panel structure of laminated chipboard.	☐Yes ☐ No	
11.2	All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with - 0.6 mm bands.	☐Yes ☐ No	
11.3	Installed on rollers, the front rollers have motion locks. 3 drawers. The top drawer has a lock.	☐Yes ☐ No	
11.4	Dimensions (LxDxH), mm: 450x520x620 (+/- 10%).	☐Yes ☐ No	
12	**Rolling lab cupboard (2nd type) - 3 PCS**	☐Yes ☐ No	
12.1	The rolling lab cupboard is based on a panel structure of laminated chipboard.	☐Yes ☐ No	
12.2	All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with - 0.6 mm bands.	☐Yes ☐ No	

12.3	Installed on rollers, the front rollers have motion locks. 1 door (left), 1 adjustable shelf inside. The door is fitted with a lock.	☐Yes ☐ No	
12.4	Dimensions (LxDxH), mm: 450x520x620 (+/- 10%).	☐Yes ☐ No	
13	**Single sink desk - 1 PCS**	☐Yes ☐ No	
13.1	The sink desk is based on a collapsible frame of steel rectangular pipes (section 60x30x2 mm) painted with epoxy-polyester powder paint.	☐Yes ☐ No	
13.2	The sink desk's frame is made of sheet steel painted with epoxy-polyester powder paint. The hanging cabinet is equipped with two doors with special hinges with a 270° opening angle. The top doors have a 45° slant.	☐Yes ☐ No	
13.3	The bottom of the cabinets is removable (to make utility connection more convenient).	☐Yes ☐ No	
13.4	Adjustable supports (0-30 mm) are provided in the frame to compensate for uneven floors.	☐Yes ☐ No	
13.5	The sink desk is equipped with: ● a polypropylene sink, (dimensions: 400x400x300 mm (+/- 10%)) – the standard placement is central; ● • a special chemically resistant mixer for hot and cold water:· a syphon with a flexible corrugated polypropylene hose for sewage connection; ● flexible hoses for water supply connection.	☐Yes ☐ No	
13.6	Sink desk working surface material: solid chemically resistant plastic with 7 mm high polymer border.	☐Yes ☐ No	
13.7	Dimensions (LxDxH), mm: 900x600x900 (+/- 10%) .	☐Yes ☐ No	
14	**Labware cabinet (1st type) - 4 PCS**	☐Yes ☐ No	
14.1	The labware cabinet is based on a panel structure of 18 mm thick laminated chipboard.	☐Yes ☐ No	
14.2	All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with 0.6 mm bands.	☐Yes ☐ No	
14.3	Adjustable supports (0-30 mm) are provided to compensate for uneven floors.	☐Yes ☐ No	
14.4	The cabinet is equipped with: • 2 doors of laminated chipboard, 1 adjustable shelf inside – at the bottom; • 2 glass hinged doors, 2 adjustable shelves in each section – at the top. The bottom doors are equipped with a lock.	☐Yes ☐ No	
14.5	Dimensions (LxDxH), mm: 900x600x1920 (+/- 10%).	☐Yes ☐ No	
15	**Reagents cabinet - 3 PCS**	☐Yes ☐ No	
15.1	The reagents cabinet is based on a collapsible structure of sheet steel painted with epoxy-polyester powder paint.	☐Yes ☐ No	
15.2	Adjustable supports (0-30 mm) are provided to compensate for uneven floors.	☐Yes ☐ No	
15.3	The cabinet is equipped with: • 2 metal doors, 1 adjustable metal shelf – at the bottom; • 2 metal doors, 2 adjustable metal shelves – at the top. All hinged doors are equipped with locks. Two sections have extractors.	☐Yes ☐ No	
15.4	A Ø100 mm air-intake fitting is installed at the top for connection to the central ventilation system.	☐Yes ☐ No	
15.5	Dimensions (LxDxH), mm: 900x600x1920 (+/- 10%).	☐Yes ☐ No	
16	**Labware cabinet (2nd type) - 1 PCS**	☐Yes ☐ No	
16.1	Intended for storing household equipment. The labware cabinet is based on a collapsible structure of sheet steel painted with epoxy-polyester powder paint.	☐Yes ☐ No	

16.2	Adjustable supports (0-30 mm) are provided to compensate for uneven floors.	☐Yes ☐ No	
16.3	The cabinet is equipped with 2 metal doors; a vertical separator breaks it into two sections: 1 shelf at the top in the left section; 4 adjustable shelves in the right section. The two hinged doors are equipped with locks.	☐Yes ☐ No	
16.4	Dimensions (LxDxH), mm: 900x600x1920 (+/- 10%).	☐Yes ☐ No	
17	**Wardrobe (1st type) - 2 PCS**	☐Yes ☐ No	
17.1	The wardrobe is based on a panel structure of 18 mm thick laminated chipboard. All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with 0.6 mm bands.	☐Yes ☐ No	
17.2	Adjustable supports (0-30 mm) are provided to compensate for uneven floors.	☐Yes ☐ No	
17.3	A vertical separator breaks the wardrobe into two sections. Each section is equipped with a headware zone, a footwear shelf and a bar for clothing. The two doors are equipped with locks.	☐Yes ☐ No	
17.4	Dimensions (LxDxH), mm: 600x600x1920 (+/- 10%)	☐Yes ☐ No	
18	**Wardrobe (2nd type) - 1 PCS**	☐Yes ☐ No	
18.1	The wardrobe is based on a panel structure of 18 mm thick laminated chipboard. All edges on the working surfaces are covered with 2 mm thick PVC bands, other edges are covered with 0.6 mm bands.	☐Yes ☐ No	
18.2	Adjustable supports (0-30 mm) are provided to compensate for uneven floors.	☐Yes ☐ No	
18.3	A vertical separator breaks the wardrobe into two sections. Each section is equipped with a headware zone, a footwear shelf and a bar for clothing. The two doors are equipped with locks.	☐Yes ☐ No	
18.4	Dimensions (LxDxH), mm: 900x600x1920 (+/- 10%).	☐Yes ☐ No	
19	**Lab chair on rollers - 6 PCS**	☐Yes ☐ No	
19.1	Lab chairs on rollers with backrest, no armrests. Intended to be used with desks 720-800 mm high.	☐Yes ☐ No	
19.2	Equipped with: ● soft profiled imitation leather seat and backrest; ● a standard pneumatic device for lifting the seat (gas-lift) ● a mechanism for adjusting seat inclination, backrest height and sitting depth; ● roller supports.	☐Yes ☐ No	
19.3	Seat/backrest upholstery material: imitation leather, easy to wash, can be cleaned with disinfectants.	☐Yes ☐ No	
19.4	Chair height regulation range: 460-585 mm.	☐Yes ☐ No	
19.5	Seat dimensions: width 475 mm, depth 445 mm (+/- 10%). Max. load: 120 kg.	☐Yes ☐ No	
19.6	Base: five-beam, metal, diameter 600 mm (+/- 10%).	☐Yes ☐ No	
20	**Lab stool - 1 PCS**	☐Yes ☐ No	
20.1	Seat material: high-pressure laminate painted with chemically resistant paint.	☐Yes ☐ No	
20.2	Frame of metal pipe painted with epoxy-polyester powder paint.	☐Yes ☐ No	
20.3	Height: 630 mm (+/- 10%) .	☐Yes ☐ No	
20.4	Seat dimensions: 300x300 mm (+/- 10%) .	☐Yes ☐ No	
21	**Standart lab chair on rollers - 6 PCS**	☐Yes ☐ No	
21.1	Swivel lab chair on rollers. Intended to be used with desks 720-800 mm high.	☐Yes ☐ No	

21.2	Equipped with: ● ergonomic seat and backrest with increased chemical resistance; ● a standard pneumatic device for seat lifting (gas-lift); ● an adjustable backrest; ● roller supports.	☐Yes ☐ No	
21.3	Seat/backrest material: monobloc polyurethane resistant to abrasion and cleaning agents.	☐Yes ☐ No	
21.4	Chair height regulation range: 400-580 mm.	☐Yes ☐ No	
21.5	Seat dimensions: width 400 mm, depth 420 mm (+/- 10%).	☐Yes ☐ No	
21.6	Base: 600 mm in diameter (+/- 10%) .	☐Yes ☐ No	
22	**Standard lab stool on rollers - 4 PCS**	☐Yes ☐ No	
22.1	Laboratory stool, on rollers. Intended to be used with desks 720-800 mm high.	☐Yes ☐ No	
22.2	Equipped with: ● seat with increased chemical resistance ● a standard pneumatic device for seat lifting (gas-lift); ● roller supports.	☐Yes ☐ No	
22.3	Seat/backrest material: monobloc polyurethane resistant to abrasion and cleaning agents.	☐Yes ☐ No	
22.4	Chair height regulation range: 400-580 mm.	☐Yes ☐ No	
22.5	Seat dimensions: 330 mm diameter (+/- 10%).	☐Yes ☐ No	
22.6	Base: 600 mm in diameter (+/- 10%).	☐Yes ☐ No	
23	**Availability of the replacement items/spare parts for the furniture for purchase in Ukraine** The Bidder shall propose only the models of furniture **replacement items/spare parts** to which are available for further procurement/ replenishment in Ukraine.	☐Yes ☐ No	
24	**Scope of work** The furniture items shall be delivered unassembled. The assembling of the furniture will **not** be covered by the scope of the contract with UNOPS. Prior to the delivery the Bidder shall ensure completeness of the furniture elements (all elements must be of due sizes and provided in due quantities).	☐Yes ☐ No	
25	**Offloading** The Supplier will be responsible for offloading and bringing the furniture to the Consignee's storage facility (3rd floor).	☐Yes ☐ No	
26	**Information about storage conditions** UNOPS will request the selected Bidder to provide the information about the storage conditions required for the furniture (storage facility size, temperature, humidity). UNOPS will share that information with the Consignee, in order to ensure that the furniture is properly stored and to avoid any potential issue during the assembling/installation. The contract with the Bidder will be signed after the Consignee confirms readiness to store the furniture in suitable conditions.	☐Yes ☐ No	
27	**The period of validity of the Warranty** The warranty shall remain valid for **twelve (12)** months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination. The Warranty should include, replacement of defective parts, repair of parts, labour for repair and/or parts replacement.	☐Yes ☐ No	
28	**Service Centre for the warranty service** **T**he selected Bidder shall provide an authorised service centre **located in Ukraine** which will provide the warranty services for the furniture. The title of the service centre, its address, telephone- and fax numbers, e-mail address must be mentioned in the bid. All costs connected with warranty maintenance shall be covered by the Bidder.	☐Yes ☐ No	Please insert name and contact details of the service centre

29	**Technical documentation for maintenance and repair of the supplied goods** For each offered item, the Bidder shall provide the technical documentation including instructions for performing maintenance of the supplied Goods by the technical staff of the Consignee. Such documentation shall include all necessary technical specifications of the devices and their parts, troubleshooting information, safety instructions, etc. that will allow the technical staff of the Consignee and/or end-users to conduct maintenance and in strict compliance with Goods specifications. The minimum set of technical documents to be provided with each piece of equipment delivered is the following: • User Manual and Operating Instructions (in English or Ukrainian) • Technical Certificate / maintenance guidelines (in Ukrainian or English) The Bidder is required to confirm the list and contents of documentation to be provided together with the Goods at the delivery. All tags/labels on the equipment shall be in English or Ukrainian language.	☐Yes ☐ No	
30	**Bid includes brand/model of the furniture and manufacturer's technical literature/catalogue, all confirming that the offered items comply with required specifications.**	☐Yes ☐ No	

Delivery requirements for Lot 3 Laboratory Furniture

UNOPS Requirements		Is the bid compliant? Bidder to complete	Details Bidder to complete
Delivery time	The Bidder shall deliver the goods within 60 days after the contract signing. Partial delivery of the items on batches within this period is acceptable.	☐Yes ☐ No	
Delivery place and Incoterms rules	DAP customs cleared (if applicable), Kyiv, Ukraine. Delivery Address: 9 Oranzhereyna St., Kyiv, Ukraine (3rd floor). The Consignee will provide the letter(s) for the customs clearance/tax exemption of the goods (if applicable). The bidder will be responsible for covering the demurrage costs, if any.	☐Yes ☐ No	
Consignee details	9 Oranzhereyna St., Kyiv, Ukraine 04112	☐Yes ☐ No	
UNOPS Right to vary requirements	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 +/- 20%, without any change in the unit prices or other terms and conditions of the RFQ.	☐Yes ☐ No	

Warranty	**The warranty shall be provided for 12 months after delivery of the equipment.** The assembling of the furniture will **not** be covered by the scope of the contract with UNOPS. Within the warranty period, the selected Bidder's authorised service centre **located in Ukraine** shall provide maintenance and/or repair services for the furniture not later than 10 (ten) workdays from the date of receipt of written or E-mail notification from the Consignee. The title of the service centre, its address, telephone- and fax numbers, e-mail address must be mentioned in the bid. The service centre shall have at least one certified engineer in its staff. All costs connected with warranty maintenance shall be covered by the Bidder. Any items found unacceptable shall be returned and changed at no costs to UNOPS.	☐Yes ☐ No	
Packing standards	Bidder shall remain liable for the packing and consistency of the items supplied for the period of shipment and acceptance for use. Bidder shall ensure the best international packing standards of goods supplied, including use of eco-friendly packing materials. The Bidder shall ensure that all items packed inside each box as well as their quantities and transportation/storage requirements for those items are listed on stickers placed at the box in English or Ukrainian languages.	☐Yes ☐ No	

Inspections and tests

The following inspections and tests shall be performed:

(i) The Supplier shall perform all needed tests before the shipment to confirm that the goods meet the Purchaser requirements. Documented confirmation of such tests has to be sent to the Purchaser before the shipment;

(ii) The Purchaser will check the availability of Compliance Certificates issued for equipment supplied;

(iii) The Supplier shall demonstrate that the software has been properly installed on the corresponding equipment;

(iv) The Purchaser (with the assistance of the Supplier) will check the functionality/operability and the compliance of main characteristics of all items of equipment with Technical Requirements. If the consumables should be used for equipment checking - they must be provided by the cost of the Supplier.

UNOPS or its representative may inspect and/or test any or all items 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.

If the goods 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 purchaser.