



Based on the donations earmarked for the project of Capacity Building of CWD Disposal in Arys, Kazakhstan donated by the United States Department of State – Federal Assistance Award Cooperative Agreement # 21CA3039, through ITF Enhancing Human Security (ITF), ITF would like to announce the following:

## **INVITATION FOR SUBMISSION OF OFFERS FOR PROCUREMENT OF LABORATORY EQUIPMENT AND SERVICES FOR AMMUNITION TESTING IN KAZAKHSTAN**

### **1. Publication reference:**

ITF-01/24-CB-KZ-USA

### **2. Procedure:**

Gathering of Commercial Offers for Commercial Companies, international and national

### **3. Contracting Authority:**

ITF Enhancing Human Security (ITF)

### **4. Description of the works:**

- Procurement of laboratory equipment for ammunition testing in Kazakhstan
- Instalment of equipment and personnel training in Kazakhstan

### **5. Eligibility and rules of origin**

Participation is open on equal terms to commercial companies, international and national, which are registered to manufacture or sell laboratory equipment and possess license and all other relevant permissions. Consortiums can apply if they can provide direct cooperation with producers of the equipment and guarantee implementation of contracts.

The company/organization is obliged to register and obtain UEI – Unique Entity ID at <https://www.gsa.gov/about-us/organization/federal-acquisition-service/office-of-systems-management/integrated-award-environment-iae/iae-systems-information-kit/unique-entity-identifier-update> before applying for this Invitation for submission of offers.

The company's principals/officials must be searched through the System for Award Management – SAM.gov – which may be accessed through the following link <https://www.sam.gov/portal/public/SAM/> . The offeror itself is responsible to check the SAM.gov.

## **6. Offer validity**

Offer shall be valid for period of minimum 90 (ninety) days after the submission of the commercial offer.

## **7. Additional information**

A function equivalent to the listed equipment can be provided. The end user of all the equipment will be the Kazakh Ministry of Defense. All additional information will be provided by Zhomart Akaev listed under the contact person section.

## **8. Contact person**

The contact person for the delivery of the offer is Zhomart Akaev at [zhomart.akaev@itf.si](mailto:zhomart.akaev@itf.si).

## **9. Deadline for submission of offers**

The offers shall be delivered by email, to **ITF Enhancing Human Security – [zhomart.akaev@itf.si](mailto:zhomart.akaev@itf.si)**, by at least Friday, **15 November 2024 at 12:00 hrs (CET)**. Any offer received after this deadline will not be considered. Offers can be sent prior to the final date.

## **11. Deadline for completion of works**

Deadline for completion of works and delivery of the equipment is subject to negotiation based on received offers, envisioned for 31 December 2024.

## List of necessary tools, devices, equipment and services requested from ITF

№	Description	Unit	Quantity	Note
1.	High performance liquid chromatograph	kit	1	<b>Chromatograph</b> for determining the content of chemical resistance stabilizer in gunpowder (with a capacity of at least 300 batches per year) (GUB)
2.	Device for determination of chemical resistance at 100C type CN100	kit	1	<b>Device</b> for determining chemical resistance at 100C (with a capacity of at least 800 batches per year) (GUB)
3.	Piezoresistive pressure sensor STB-PT100	unit	2	<b>Piezoresistive pressure sensor (0-100 kPa) STB-PT100</b> is included in the set of the device for testing the chemical resistance of powders in a vacuum STABIL 21 (GUB)
4.	Glass test tubes with evacuation port STB-TTEP03	unit	20	<b>Glass tubes with an evacuation port STB-TTEP03</b> are included in the set of the device for testing the chemical resistance of powders in a vacuum STABIL 21 (GUB)
5.	Diagnostics of drying machines VFT 60/90	service	1	<b>The fresh airdrying machine VFT 60/90</b> is designed for the artificial aging of smokeless powders (GUB)
6.	Examination of the technical condition (diagnostics of a malfunction) of an X-ray chamber MU-2000 YXLON	service	1	<b>The MU-2000 YXLON X-ray camera</b> is designed to assess the condition of internal combat elements without cutting into elements for the purpose of safe testing (GUB)
7.	Temperature sensor Order code for top controller (temperature): P6100-1-2-1-7-0-0-2	unit	1	<b>Temperature sensor</b> for equipment SN-100 (designed to test the thermal stability of powders) (GUB)
8.	Limit sensor Order code for top button controller (limit): P6100-1-1-0-0-7-0-2	unit	1	<b>Limit sensor</b> for equipment SN-100 (designed to check the thermal stability of gunpowders) (GUB)
9.	XR150 X-ray system – or equivalent	kit	1	<b>The XR150 X-ray system</b> is designed to assess the condition of internal combat elements without cutting into elements for the purpose of safe testing (GUB)
10.	Water purification system (bidistiller) Standard, water quality for HPLC	kit	1	<b>The bidistiller</b> is part of a liquid chromatograph and is intended for the production of distilled water (GUB)
11.	Improved BAM FallHammer (impact tester) BFH-12, with a technological process for extracting explosives from ammunition. (or equivalent)	kit	1	<b>The BFH-12 Advanced BAM Fall Hammer</b> is designed to measure the impact sensitivity of solid or liquid energetic materials (such as high explosives, propellants, pyrotechnics or primary explosives) and other substances (GUB)
12.	STABIL® vacuum stability tester.	kit	1	<b>The STABIL® Vacuum Stability Tester</b> is designed to measure the thermal (chemical) stability of energy materials. (explosives, fuel, pyrotechnics, chemically active substances, explosive

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				waste). The instrument measures the volume of gas released when samples are heated in evacuated tubes in a heating block maintained at a constant temperature (30-160 °C) for a specified period of time (GUB)
13.	REGULA 6001 hardware and software research complex.	kit	I	<b>The REGULA 6001</b> software and hardware research complex is designed to measure the speed of a bullet when conducting forensic ballistic examinations, testing small arms and sporting and hunting weapons and ammunition (GUB)
14.	Machine for unpacking unitary shots (ammunition) of calibers from 5.45 mm to 115 mm.	kit	I	<b>The machine</b> is designed for unpacking unitary shots (ammunition) of caliber from 5.45 mm to 115 mm for the purpose of extracting gunpowder (GUB)
15.	Equipment for testing explosives, pyrotechnic substances, cartridges for CO, for fuses for hand grenades.	kit	I	<b>The equipment</b> is designed for testing explosives, pyrotechnic substances, cartridges for CO, for fuses for hand grenades (GUB)
16.	Ampere-voltmeter for detonators of any type.	kit	I	Used to check electric detonators (DIV)
17.	Chromato-mass spectrometer, photometer compact high-speed spectrophotometer for liquid and solid samples, controlled by a compatible computer such as FIRST DEFENDER.	kit	I	For detection and determination of substances and compounds (DRHBZ)
18.	Aspirators for sampling air, gas with a given volumetric flow rate such as APV-ChMC.	kit	I	For air quality control, as well as for studying the composition of gases (DRHBZ)
19.	Gas analyzers and gas detectors universal portable and stationary type TRU DEFENDER.	kit	I	For determining toxic and highly toxic substances (DRHBZ)
20.	Aspiration psychrometer, thermohygrometer MV-4-2M UT33I.	kit	I	For measuring relative humidity and air temperature (DRHBZ)
21.	Viscometer ROTAVISC SBS BI-VI II	kit	I	Apparatus for measuring liquid properties, viscosity (DRHBZ)
22.	Combined multichannel analyzers pH meters, ionometers of the LEADER-63X type	kit	I	For measuring the hydrogen index, which characterizes the activity of ions in solutions (DRHBZ)
23.	Universal laboratory centrifuge MINI-10K	kit	I	For separating gaseous, liquid or bulk solids of different densities (DRHBZ)
24.	Magnetic stirrer of the PE AMTAST SDL180 type	kit	I	For mixing and homogenizing liquids or solutions (DRHBZ)
25.	Water distiller for the production of purified water D-10M	kit	I	For producing distilled water (DRHBZ)

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26.	Universal device Barometer of the M-110 type	kit	1	For determining atmospheric pressure, relative air humidity, air temperature, air flow velocity (DRHBZ)
27.	A set of chemical glassware for the laboratory	kit	1	For conducting laboratory experiments in chemistry and biology
28.	A comparator of any type	kit	1	Used for thermostating samples during biochemical analysis (DRHBZ)
29.	Laboratory scales electronic and mechanical scales with a set of weights of any type	kit	1	Used for weighing reagents, substances and other materials (DRHBZ)
30.	Universal portable dosimeter-radiometers of any type DAG-RM1610	kit	1	For determining all types of ionizing radiation (DRHBZ)
31.	Dosimetric installation of gamma radiation (calibration equipment) of the UDR AT130 type	kit	1	For reproducing and transmitting units of air kerma, exposure dose, ambient, individual dose equivalents and their gamma radiation powers to the working standard and measuring instruments during verification, calibration and testing (DRHBZ)
32.	Automated control system "GURT" with a set of automated control and testing equipment (AKPA): <ul style="list-style-type: none"> <li>- a set of high-pressure air hoses ASK "GURT"</li> <li>- AKPA 6.1M (universal AKPA)</li> <li>- AKPA 6.2 (power source)</li> <li>- AKPA 2.21 (ensuring control and preparation of R-27 missiles)</li> <li>- AKPA 2.13 (ensuring control and preparation of R-73 missiles)</li> <li>- AKPA 2.20 (ensuring control and preparation of KAB-500 guided bombs)</li> <li>- AKPA 6.4 (ensuring control and preparation of Kh-29 missiles)</li> <li>- AKPA 6.18 (ensuring control and preparation of Kh-25 missiles)</li> <li>- AKPA 2.13 (ensuring control and preparation of Kh-31 missiles)</li> <li>- UGZSM-A-131 (nitrogen unit)</li> <li>- ESD-30-VS/400-M2 (for uninterrupted power supply to AKPA)</li> <li>- set of technological equipment MS-14601G (MS-14602G)</li> </ul>	kits		<b>The automated control system "GURT" is used to ensure control and preparation of aviation weapons (AW)</b>