

Warsaw, 4th February 2026 r.

ANNOUNCEMENT nr 1/ZBLSU/2026 REGARDING THE ACQUISITION OF TECHNICAL SOLUTIONS IN THE DOMAIN OF UNMANNED LAND WEAPON SYSTEMS

Pursuant to Decision nr 123 by the Minister of National Defence of 12th September 2025, the Unmanned Systems Forces Inspectorate announces a procedure for the acceptance of applications from manufacturers of unmanned solutions on the organization and modes of testing in the Polish Armed Forces.

I. SUBJECT OF THE ANNOUNCEMENT

The subject of the announcement is an Unmanned Land Weapon System (hereinafter referred to as BLSU).

II. INTENDED USE

BLSU designed for the implementation of tasks in the field of logistic security (transport of materials), with a modular structure, constituting the basis for further development for the implementation of other tasks e.g. reconnaissance, strike, engineering and sapper systems, defence against weapons of mass destruction and medical evacuation.

III. LIST OF MINIMUM TECHNICAL REQUIREMENTS

I. DEFINITION – BLSU

The Unmanned Land Weapon System is a complete solution enabling the implementation of tasks as intended, consisting of a land platform, a command and control station, and specialized equipment necessary to perform these tasks.

II. MINIMUM REQUIREMENTS

BLSU should meet nw. requirements in the context of individual components and equipment:

1. General Requirements:

- 1) The BLSU consists of:**
 - a) a land-based platform;**
 - b) command and control stations;**
 - c) an observation module containing a daytime camera and an infared camera (optional thermal imaging camera);**

- d) a radio transmission system;
- e) an antenna mast with an external antenna;
- f) additional equipment.

2. Requirements for the onshore platform:

- 1)** weight up to 900 kg;
- 2)** type of drive: wheeled or tracked;
- 3)** drive: all-wheel or tracked;
- 4)** number of axles: up to 3 axles;
- 5)** working time: min. 3 h;
- 6)** type of engine: electric or internal combustion engine;
- 7)** speed: not less than 10km/h..;
- 8)** load capacity minimum 150 kg;
- 9)** range of overall capacity is:
 - a) length between 125 to 220 cm (+/- 10%);
 - b) width between 80 to 130 cm (+/- 10%);
 - c) height from 120 to 135 cm(+/- 10%).
- 10)** structural reinforcements at the front and rear of the vehicle, integrated with frame or carrier module for e.g. towing. Optionally included winch and/or towbar;
- 11)** the land platform allows the transfer of modules, cargo, equipment in a stable manner;
- 12)** the device does not save the so-called logs data after the task on any memory located on the land platform.

3. Requirements for the protection and durability of the land-based platform:

- 1)** the platform has covers for sensors and electronics;
- 2)** the platform is equipped with masking and heat radiation shields;
- 3)** the platform remains fully functional in a wide range of environmental conditions, including:
 - a) operating temperature range: -20°C to +50°C;
 - b) resistance to rain, snow, mud and splashes and dust in accordance with IP55 or higher protection standards;
 - c) stability in wind and unevenness.

4. Requirements for command and control Stations:

- 1)** the platform is controlled by a handheld, portable GCS (Ground Control Station);
- 2)** the set includes two GCS oraz ECS (Extended Control Station) control stations;
- 3)** the GCS control station is a superior control device to the ECS. ECS station is attached only when performing a more complex task (ECS has camera control only);
- 4)** the device enables the reception of video transmissions and control of the platform through the radio system and via "Starlink" satellite communications
- 5)** the onshore platform is controlled by a system for transmission over a fiber optic cable (optional);
- 6)** the steering station has a screen, LCD display with a size of not less than 7" enabling configuration of the device and displaying the image from the BLSU camera;
- 7)** the steering station has two manipulators-joysticks designed to control the BLSU and keys and function switches configurable by the user according to individual needs;
- 8)** configuration of the steering station functions is done from the GCS software without the need for a PC or a specialized tool;
- 9)** the control station is compatible with the BLSU telemetry receiver, with the possibility of the "follow me" function (have the ability to follow the operator or object), move along the designated route and move to the indicated point;
- 10)** the steering station has built-in radio antennas, the device allows to connect an external antenna that is part of the entire set via TNC or Ethernet connector;
- 11)** the operating program of the control station is intuitive for each person;
- 12)** the Operational program of the control station allows the installation of maps in GeoTiFF, GeoPDF and TiFF formats;

- 13)**the Operational program of the control station is compatible with the ATAK tactical task app;
- 14)**the control station has an HDMI connector that allows the image to be transmitted to external devices;
- 15)**the operation of the control station on the battery is not less than 4 hours;
- 16)**the steering station has a battery charge indicator;
- 17)**the device shall allow the replacement of the power batteries. The batteries shall be compatible with the power supplies and chargers which are the subject matter of the proceedings;
- 18)**the device has a USB-C connector for connection to an external power source (power bank);
- 19)**the control station is the only device of the set that archives logs from the implementation of tasks/missions (m.in. telemetry data, GNSS, etc.);
- 20)**the device is portable, housed in a durable plastic enclosure made of impact- and moisture-resistant plastic in accordance with IP55 or higher.

5. Observation Module Requirements:

- 1)** Daytime cameras:
 - a) viewing angles: 130° (+/- 15%);
 - b) resolution: not less than 1920 x 1080px;
 - c) Frequency: not less than 25 FPS;
 - d) ISO sensitivity: 100-800 or higher;
 - e) the camera has an AGC (Automatic Gain Control) mode for automatic sensitivity and gain control).
- 2)** Infrared Cameras:
 - a) resolution: not less than 1280 x 1024px;;
 - b) viewing angles: 130° (+/- 15%);
 - c) frequency: not less than 25 FPS;
 - d) ISO sensitivity: Auto exposure.
- 3)** Thermal imaging camera (optional):
 - a) wavelength range: LWIR (Long Wave Infra Red, 8-14 µm);

- b) the camera shall display heat signatures in „Hot is White” or „Hot is Black” mode (user-defined).

6. Requirements for radio transmission systems:

- 1)** Each radio equipment (radioelectronic device radiating electromagnetic energy in the radio wave range) included in the offered system should operate in the frequency ranges available to the Polish Armed Forces, i.e. designated, in accordance with the Regulation of the Council of Ministers of 27 December 2013 on the National Frequency Allocation Table (Journal of Laws of 2014, item 161, as amended), for one of the radio communication services - "MOBILE / MOBILE LAND / MOBILE except mobile aircraft" which are in government use or radio equipment(s) (radioelectronic device radiating electromagnetic energy in the radio frequency range), which are part of the system offered, shall meet the requirements for radio, transmitting and or transmitting and receiving devices that do not require a radio permit in accordance with Article 145(2)(5) of the Act of 12 July 2024 – Electronic Communications Law or meet the requirements set out in the Regulation of the Minister competent for information technology, issued on the basis of Article 145(4) of the said Act;;
- 2)** in accordance with point 6.1, the Contractor, as part of the submitted offer, shall present the parameters of the radio path for each radio device (radioelectronic device radiating electromagnetic energy in the range of radio waves), included in the offered set, using for this purpose Appendix No. 5 (Application for frequency approval for radio equipment planned to be introduced in cells/organizational units) to Decision No. 144 by the Minister of National Defence of 7 November 2024 on the management of the radio frequency spectrum in the Ministry of National Defence (Dz.Urz.MON.2024.179 of 08.11.2024);
- 3)** the radio system of the set shall provide reception of data transmission in real time and provides stable control;

- 4) the radio communication modules use two operating frequencies to increase immunity to interference;
- 5) the device has a pairing mode by the BLSU operator with the GCS control station. The pairing procedure should be simple to follow and do not require specialized tools, software, or an external electronic device;
- 6) the system shall ensure that the channels and frequencies can be set using the GCS routing station;
- 7) radio equipment should be allowed to be traded within the EU;
- 8) the equipment should prevent control from being taken over by another control station or other control device that is not paired with BLSU;
- 9) the device shall be capable of marching with the same devices operating in close proximity to each other without any negative interaction with each other, preventing the thus the performance of tasks (explanation: 3 teams train simultaneously on the tactical exercise strip using the same BLSU and 3 GCS stations, there must be no mutual signal interference between paired systems);
- 10) radio transmission is carried out by an integrated telemetry transmitter using the AES128 or AES256 algorithm..

7. Requirements for antenna mast and external antenna:

- 1) the set includes one foldable antenna mast along with antennas to receive telemetry and video signal from BLSU;;
- 2) the antenna mast is made of light metal or plastic;
- 3) the height of the mast is not less than 7 m;
- 4) the mast is protected against tipping over by special counterweights or guyed anchors;
- 5) the set shall consist of coaxial cables intended for connecting the antennas to the steering station with a length of not less than than 20 m. Cable terminations, connectors must be compatible with antennas and all radio equipment.

8. Requirements for other equipment

- 1) requirements as part of the optional equipment:**
 - a) the land-based platform is equipped with environmental sensors (gyroscope, compass);
 - b) the BLSU system shall have a loudspeaker with a microphone enabling voice communication between the control station and the land platform;
 - c) the land-based platform shall be equipped with LED lighting for night loading (vehicle outline);
 - d) the land-based platform has a holder for a "Starlink" terminal;
 - e) the BLSU set is equipped with a micro UAV of the multirotor type, used as a communication retranslator, ensuring control and data transmission without loss of data quality (optional).
- 2) requirements for chargers and power adapters of the kit:**
 - a) when an electric motor is used in a land platform, the kit shall be supplied with a smart charger designed to charge the battery of the set;
 - b) the above mentioned charger is suitable for 230V AC main power supply with an European termination, with a length of not less than 5 m
 - c) the kit is supplied with an electric designed for charging the batteries of the steering station. The smart charger should perform charging functions for 2 devices in parallel and is suitable for 230V AC main power supply, equipped with a short electrical cable with a length of 2 m (+/- 10 cm) and an European termination;
 - d) the charger(s) have a safety device that prevents excessive overcharging of the batteries;
 - e) the operation of the power supplies is carried out at a temperature of +5°C to +35°C.
- 3) Requirements for the transport packaging of the kit:**
 - a) BLSU transport is carried out by medium tonnage trucks, on special cargo boxes;

- b) the kit contains two transport packages for the control station, one for the mast and one for the other equipment of the set (power supplies, fiber optic cables, technical documentation, service keys). They should be durable and sturdy. The main purpose is to provide protection against damage, the impact of moisture on the time of transport and storage in the warehouse;
- c) the transport packaging specified in point b is made of ABS with moisture seals and closures;
- d) the transport packaging is shaped like transport crates with carrying handles;
- e) The colour of the transport packaging should be subdued. Black, grey, green, olive and sand are acceptable.

4) Software Licence Requirements and Patents:

- a) the manufacturer or importer declares that the supplied equipment is manufactured without infringing copyrights or patent rights that could infringe the interests of "third" parties;
- b) the software used is developed by the manufacturer of the or in the event of the use of software by the from "third parties", the producer has appropriate agreements governing the transfer of copyright to the software, the operating system used, programming libraries, drivers, scripts that are part of the entire system. Transfer agreements govern licencing issues, including permits for further copying of software and redistribution;
- c) the software manufacturer agrees to use the software in serial, commercial, and military systems and in accordance with the software license;
- d) the kit shall contain the manufacturer's declaration of admittance to sale on the EU market, catalogue note photocopy of approval and technical test certificates, if manufactured

5) Kit Documentation Requirements:

- a) the contractor shall provide documentation of the equipment, including a user manual in Polish. Instructions can be provided on an electronic medium in the form of a PDF file. The manufacturer agrees to copy the electronic documentation for the internal

puropses of the contracting authority and the military ICT systems (Milnet-I);

- b) the contractor shall provide an abbreviated paper version in Polish for each piece of equipment. Summary documentation must be included in the transport packaging.