

Name and address of the contracting authority:

Exceptional Situations Department of Chisinau General Inspectorate for Emergency Situations
3 Iacob Hancu Street, Chisinau, Republic of Moldova, postal code MD-2005

Contact person: Liviu Merzîncu, Acting Head

Title of the tender: Procurement of 1 (one) Drone and 1 (one) Tablet for drone

Reference number: REACT/2SOFT/4.2./149/Lot 3

PART A:

1. INFORMATION FOR THE TENDERER

1. INFORMATION ON SUBMISSION OF TENDERS

Subject of the contract:

The subject of this tender is: Procurement of 1 (one) Drone and 1 (one) Tablet for drone (REACT/2SOFT/4.2./149/Lot 3).

Procurement procedures according EU PRAG rules (version 2016.0).

Provision of **supplies/ goods**, as indicated in the technical information in point 2 (technical information/ technical specifications) of the tender document.

Deadline for submission of the tenders:

The deadline for submission of tenders is **November 19th, 2020 at 17:00 Moldova time (GMT+2)**.

Any tender received after this deadline will be automatically rejected.

Address and means of submission of the tenders:

The tenderers will submit their tenders using the **standard submission form available in Part B (Tender Form) of this tender dossier**. The tender will be submitted in 1 (one) original and 2 (two) copies.

The technical and financial offers must be placed together in a sealed envelope. The envelope should then be placed in another single sealed envelope/package, unless their volume requires a separate submission for each lot.

The envelope will contain the following information at the external part:

Name and address of the Contracting Authority:

Exceptional Situations Department of Chisinau General Inspectorate for Emergency Situations.
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The words ‘Not to be opened before the tender opening session’ in the language of the tender dossier and „A nu se deschide înainte de sesiunea de deschidere a ofertelor”.

Name and address of the tenderer:

2. TECHNICAL INFORMATION/ SPECIFICATIONS

The tenderers are required to provide supplies/ goods as indicated below. In the technical offer, the tenderers will indicate more details on the deliveries, referring to the below table.

| No | Nr of items | Title of item | Technical specifications | Required timeframe |
|----|-------------|---------------|--|---------------------|
| 1 | 1 | Drona | <p>Mission Aerial research during the day and night</p> <p>General features:</p> <ul style="list-style-type: none"> ➤ complete flight ready system ➤ flight time – minim 30 min. ➤ kit includes dual “thermal imaging and 4k” camera. ➤ gyrostabilized system included on which the dual dashboard is mounted. ➤ additionally, the kit includes: <ul style="list-style-type: none"> ✓ <u>spotlight</u> – directs lost people more easily with a dual reflector that improves vision in low light areas; ✓ <u>speaker</u> – the possibility of communication with ground crews during emergencies, effective guidance with pilots and personnel during operation; ✓ <u>beacon</u> – which emits a light signal ensuring flight safety. ➤ standard control station (remote control), compatible for tablets and smartphones that are used as a screen ➤ the kit includes a tablet (operating system iOS 10 or more, diagonal minimum 7", 3G / 4G, Full HD resolution, RAM-min2Gb), with integrated application “DJI Pilot”; ➤ online display of the image captured by the cameras on the tablet, display of information on the coordinates of the aircraft, flight speed, height, battery status, other useful information for directing the flight; ➤ video image transmission to the control station over the entire operating range / distance; ➤ possibility to transmit the video image in real time via Internet channel from the place of filming to other locations (i.e: the flight is performed in any location on the territory of the Republic of Moldova, and the video images are transmitted in real time in a control centre located in the Chisinau city). <p>Technical specifications: Aircraft</p> <ul style="list-style-type: none"> • <i>Take-off Weight (Without Accessories)</i> | 19/11/2020 17:00 |

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| | | | <ul style="list-style-type: none"> - 899 g • Max Take-off Weight <ul style="list-style-type: none"> - 1100 g • Dimensions(L×W×H) <ul style="list-style-type: none"> - Folded : 214×91×84 mm - Unfolded: 322×242×84 mm • Diagonal Length <ul style="list-style-type: none"> - 354 mm • Max Ascent Speed <ul style="list-style-type: none"> - 5 m/s (S-mode) - 4 m/s (P-mode) - 4 m/s (S-mode with accessories) - 4 m/s (P-mode with accessories) • Max Descent Speed <ul style="list-style-type: none"> - 3 m/s (S-mode) - 3 m/s (P-mode) • Max Speed (near sea level, no wind) <ul style="list-style-type: none"> - 72 kph (S-mode, without wind) - 50 kph (P-mode, without wind) • Max Service Ceiling Above Sea Level <ul style="list-style-type: none"> - 6000 m • Max Flight Time (no wind) <ul style="list-style-type: none"> - 31 min (at a consistent speed of 25 kph) • Max Hovering Time (no wind) <ul style="list-style-type: none"> - 29 min - 27 min (with beacon turned on) - 28 min (with beacon turned off) - 22 min (with spotlight turned on) - 26 min (with spotlight turned off) - 25 min (with speaker turned on) - 26 min (with speaker turned off) • Max Wind Speed Resistance <ul style="list-style-type: none"> - 29–38 kph • Max Tilt Angle <ul style="list-style-type: none"> - 35° (S-mode, with remote controller) - 25° (P-mode) • Max Angular Velocity <ul style="list-style-type: none"> - 200°/s (S-Mode) - 100°/s (P-Mode) 200°/s (S-Mode) - 100°/s (P-Mode) • Operating Temperature Range <ul style="list-style-type: none"> - -10°C to 40°C • GNSS <ul style="list-style-type: none"> - GPS+GLONASS • Hovering Accuracy Range <ul style="list-style-type: none"> - Vertical: <ul style="list-style-type: none"> ±0.1 m (with Vision Positioning) ±0.5 m (with GPS Positioning) - Horizontal: ±0.3m (with Vision | |
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| | | | <p>Positioning) ±1.5 m (with GPS Positioning)</p> <ul style="list-style-type: none"> • Operating Frequency <ul style="list-style-type: none"> - 2.400 - 2.4835 GHz - 5.725 - 5.850 GHz • Transmission Power (EIRP) <ul style="list-style-type: none"> - 2.400 - 2.4835 GHz - FCC : ≤26 dBm - CE : ≤20 dBm - SRRC : ≤20 dBm - MIC : ≤20 dBm 5.725-5.850 GHz - FCC : ≤26 dBm - CE : ≤14 dBm - SRRC : ≤26 dBm • Internal Storage <ul style="list-style-type: none"> - 24 GB <p>Thermal Camera</p> <ul style="list-style-type: none"> • Sensor <ul style="list-style-type: none"> - Uncooled VOx Microbolometer • Lens <ul style="list-style-type: none"> - HFOV: 57° - Aperture: f/1.1 • Sensor Resolution <ul style="list-style-type: none"> - 160×120 • Pixel Pitch <ul style="list-style-type: none"> - 12 μm • Spectral Band <ul style="list-style-type: none"> - 8-14 μm • Image Size <ul style="list-style-type: none"> - 640×480 (4:3); - 640×360 (16:9) • Still Photography Modes <ul style="list-style-type: none"> - Single shot - Burst shooting: 3/5/7 frames • Video Recording Modes <ul style="list-style-type: none"> - 640×360 @8.7fps • Accuracy <ul style="list-style-type: none"> - High Gain: Max ±5% (typical) - Low Gain: Max ±10% (typical) • Scene Range <ul style="list-style-type: none"> - High Gain: -10° to +140°C - Low Gain: -10° to +400°C • Photo <ul style="list-style-type: none"> - JPEG • Video <ul style="list-style-type: none"> - MP4, MOV (MPEG-4 AVC/H.264) <p>Visual Camera</p> <ul style="list-style-type: none"> • Sensor | |
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| | | | <ul style="list-style-type: none"> - 1/2.3" CMOS; Effective pixels: 12M • Lens <ul style="list-style-type: none"> - FOV: approx. 85° - 35 mm format equivalent:24 mm - Aperture: f/2.8 - Focus: 0.5 m to ∞ • ISO Range <ul style="list-style-type: none"> - Video: 100-12800 (auto) - Photo: 100-1600 (auto) • Max Image Size <ul style="list-style-type: none"> - 4056×3040 (4:3) ; 4056×2280 (16:9) • Still Photography Modes <ul style="list-style-type: none"> - Single shot - Burst shooting: 3/5/7 frames - Interval (2/3/5/7/10/15/20/30/60 s) • Video Recording Modes <ul style="list-style-type: none"> - 4K Ultra HD : 3840×2160 30p - 2.7K : 2688×1512 30p - FHD : 1920×1080 30p • Max Video Bitrate <ul style="list-style-type: none"> - 100 Mbps • Photo <ul style="list-style-type: none"> - JPEG • Video Format <ul style="list-style-type: none"> - MP4, MOV (MPEG-4 AVC/H.264) <p>Gimbal</p> <ul style="list-style-type: none"> • Mechanical Range <ul style="list-style-type: none"> - Tilt: -135 – +45° - Pan: -100 – +100° • Controllable Range <ul style="list-style-type: none"> - Tilt: -90 – +30° - Pan: -75 – +75° • Stabilization <ul style="list-style-type: none"> - 3-axis (tilt, roll, pan) • Max Control Speed (tilt) <ul style="list-style-type: none"> - 120°/s • Angular Vibration Range <ul style="list-style-type: none"> - ±0.005° <p>Sensing System</p> <ul style="list-style-type: none"> • Sensing System <ul style="list-style-type: none"> - Omnidirectional Obstacle Sensing • Forward <ul style="list-style-type: none"> - Precision Measurement Range:0.5 - 20 m - Detectable Range: 20 - 40 m - Effective Sensing Speed: ≤ 14m/s - FOV: Horizontal: 40°, Vertical: 70° • Backward <ul style="list-style-type: none"> - Precision Measurement Range: 0.5 - 16 m | |
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| | | | <ul style="list-style-type: none"> - Detectable Range: 16 - 32 m - Effective Sensing Speed: $\leq 12\text{m/s}$ - FOV: Horizontal: 60°, Vertical: 77° • Upward <ul style="list-style-type: none"> - Precision Measurement Range: 0.1 - 8 m • Downward <ul style="list-style-type: none"> - Precision Measurement Range: 0.5 - 11 m - Detectable Range: 11 - 22 m • Sides <ul style="list-style-type: none"> - Precision Measurement Range: 0.5 - 10 m - Effective Sensing Speed: $\leq 8\text{m/s}$ - FOV: Horizontal: 80°, Vertical: 65° • Operating Environment <ul style="list-style-type: none"> - Forward, Backward and Sides: <ul style="list-style-type: none"> - Surface with clear pattern and adequate lighting (lux > 15) - Upward: <ul style="list-style-type: none"> - Detects diffuse reflective surfaces ($>20\%$) (walls, trees, people, etc.) - Downward: <ul style="list-style-type: none"> - Surface with clear pattern and adequate lighting (lux > 15) - Detects diffuse reflective surfaces ($>20\%$) (walls, trees, people, etc.) <p>Remote Controller</p> <ul style="list-style-type: none"> • Operating Frequency <ul style="list-style-type: none"> - 2.400 - 2.483 GHz; 5.725 - 5.850 GHz • Max Transmission Distance (Unobstructed, free of interference) <ul style="list-style-type: none"> - 2.400 - 2.483 GHz; 5.725 - 5.850 GHz - FCC: 10000 m - CE: 6000 m - SRRC: 6000 m - MIC: 6000 m • Operating Temperature Range <ul style="list-style-type: none"> - 0°C to 40°C • Transmitter Power (EIRP) <ul style="list-style-type: none"> - 2.4 - 2.4835 GHz <ul style="list-style-type: none"> - FCC : ≤ 26 dBm ; CE : ≤ 20 dBm ; - SRRC : ≤ 20 dBm MIC : ≤ 20 dBm - 5.725 - 5.850 GHz <ul style="list-style-type: none"> - FCC : ≤ 26 dBm ; CE : ≤ 14 dBm ; - SRRC : ≤ 26 dBm • Battery <ul style="list-style-type: none"> - 3950mAh • Charging Time <ul style="list-style-type: none"> - 2 hours 15 min • Operating Current/Voltage <ul style="list-style-type: none"> - 1800mA = 3.83V | |
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| | | | <ul style="list-style-type: none"> • Mobile Device Holder <ul style="list-style-type: none"> - Thickness Supported: 6.5-8.5 mm, Max length: 160 mm • RC Size <ul style="list-style-type: none"> - Folded : 145×80×48 mm (L×W×H) - Unfolded: 190×115×100 mm (L×W×H) • Supported USB port types <ul style="list-style-type: none"> - Lightning, Micro USB (Type-B), USB Type-C™ <p>Intelligent Flight Battery</p> <ul style="list-style-type: none"> • Capacity <ul style="list-style-type: none"> - 3850 mAh • Voltage <ul style="list-style-type: none"> - 15.4 V • Max Charging Voltage <ul style="list-style-type: none"> - 17.6 V • Battery Type <ul style="list-style-type: none"> - LiPo • Energy <ul style="list-style-type: none"> - 59.29 Wh • Net Weight <ul style="list-style-type: none"> - 297 g • Charging Temperature <ul style="list-style-type: none"> - 5°C - 40°C • Operating Temperature Range <ul style="list-style-type: none"> - -10°C to 40°C • Heating Methods <ul style="list-style-type: none"> - Manual Heating ; Auto Heating • Heating Temperature <ul style="list-style-type: none"> - -20°C to 6°C • Heating duration <ul style="list-style-type: none"> - 600s (Max) • Heating Power <ul style="list-style-type: none"> - 35W (Max) • Charging Time <ul style="list-style-type: none"> - 90 min • Max Charging Power <ul style="list-style-type: none"> - 80W <p>Charger</p> <ul style="list-style-type: none"> • Input <ul style="list-style-type: none"> - 100-240V, 50-60Hz, 1.8A • Output <ul style="list-style-type: none"> - Main: 17.6V = 3.41A or 17.0V = 3.53 - USB: 5 V = 2 A • Voltage <ul style="list-style-type: none"> - 17.6±0.1V • Rated Power <ul style="list-style-type: none"> - 60W <p>Beacon</p> | |
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| | | | <ul style="list-style-type: none"> • Dimensions <ul style="list-style-type: none"> - 68x40x27.8 mm • Port Type <ul style="list-style-type: none"> - USB Micro-B • Power <ul style="list-style-type: none"> - Avg. 1.6W • Controllable Range <ul style="list-style-type: none"> - 5000 m • Light intensity <ul style="list-style-type: none"> - Min Angle : 55 cd ; - Light intensity : 157 cd <p>Spotlight</p> <ul style="list-style-type: none"> • Dimensions <ul style="list-style-type: none"> - 68x60x41 mm • Port Type <ul style="list-style-type: none"> - USB Micro-B • Operating Range <ul style="list-style-type: none"> - 30 m • Power <ul style="list-style-type: none"> - Max 26W • Illuminance <ul style="list-style-type: none"> - FOV17°, Max : 11lux @ 30m Straight <p>Speaker</p> <ul style="list-style-type: none"> • Dimensions <ul style="list-style-type: none"> - 68x55x65 mm • Port Type <ul style="list-style-type: none"> - USB Micro-B • Power <ul style="list-style-type: none"> - Max 10W • Decibel <ul style="list-style-type: none"> - 100 db @ 1 meter distance • Bitrate <ul style="list-style-type: none"> - 16 kbps <p>APP / Live View</p> <ul style="list-style-type: none"> • Video Transmission System <ul style="list-style-type: none"> - OcuSync 2.0 • Mobile App <ul style="list-style-type: none"> - DJI PILOT • Live View Quality <ul style="list-style-type: none"> - Remote Controller: - 720p@30fps / 1080p@30fps • Max Live View Bitrate <ul style="list-style-type: none"> - 40 Mbps • Latency <ul style="list-style-type: none"> - 120 - 130 ms • Required Operating Systems <ul style="list-style-type: none"> - iOS 10.0 or later <p>Supported SD Cards</p> <ul style="list-style-type: none"> - Micro SD™ | |
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| | | | <ul style="list-style-type: none"> - Supports a microSD with capacity of up to 128 GB. A UHS-I Speed Grade 3 rating microSD - card is required. <p>Additionally, kit must include:</p> <ul style="list-style-type: none"> ➤ microSD cards (128Gb, ≥15Mb/s, Class 10, UHS -1) – 2 pieces; ➤ 6 additional spare batteries for the aircraft; ➤ a set of spare silent airscrew (blades); ➤ standard battery charger, including car power cable; ➤ “battery charging hub” for charging 4 batteries simultaneously; ➤ stiffened carrying case; ➤ operating manual. <p>Additional conditions:</p> <ul style="list-style-type: none"> ➤ staff training; ➤ warranty period for the aircraft / electronic components – minim 36 months. | |
| 2 | 1 | Tablet for drone | Compatible with drone, max stock memory, max operative memory. | 19/11/2020 17:00 |

3. FINANCIAL INFORMATION

The maximum available value of the contract is 5,600.00 EUR.

Tenderers shall submit offer per each type of goods requested.

The payment will be done in MDL according to the EU inforeuro course in the month of payment.

https://ec.europa.eu/info/funding-tenders/how-eu-funding-works/information-contractors-and-beneficiaries/exchange-rate-inforeuro_en

4. ADDITIONAL INFORMATION

The selection criteria are/ Documents to be submitted:

| No | Description of criteria | Proof mode of criteria achievement | Obligatory |
|----|---|---|------------|
| 1. | Registration certificate (Public Services Agency) | A signed copy with company stamp | yes |
| 2. | At least 3 contracts of similar nature and size in last calendar year | Copy of the list of contracts - signed, with company stamp | yes |
| 3. | At least 10,000.00 Eur turnover of the bidder during the last 3 years | Copy of the list of contracts with amounts - signed, with company stamp (according to the original) | yes |
| 4. | Minimum 5 of technical staff in the last 3 years | Copy of confirmation letter - signed, with company stamp | Yes |
| 5. | Certificate regarding the lack of arrears to the national public budget | Original | Yes |
| 6. | Financial identification form | Original | Yes |
| 7. | Legal entity form | Original | Yes |

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| 8. | Declaration of honor | Original | Yes |
| 9. | Financial statements for the last three years for which accounts have been closed. | Copy according to the original, signed, with company stamp | Yes |
| 10. | Technical and financial offer (Part B – Annex III) | Original | Yes |

The award criterion is:

Lowest price of technically compliant offers.

The successful and unsuccessful tenderers will be informed of the results of the evaluation procedure in written.

The estimated time of response to the tenderers is 5 working days from the deadline for submission of the tenders.

Annexes:

Annex 1. Letter of invitation to tender

Annex 2. Contract Notice

Annex 3. Instructions to tenderers

Annex 4. Draft Contract

Annex 5. Financial Identification Form

Annex 6. Legal Entity Form

Annex 7. Special Conditions

Annex 8. General Conditions

Annex 9. Declaration of honour on exclusion criteria and selection criteria

Annex 10. Technical Specifications_Part A_Annex II

Annex 11. Technical ad financial offer_Part B_Annex II

Annex 12. Administrative Compliance Grid

Annex 13. Evaluation Grid

Annex 14. Provisional / Final Acceptance Certificate