
**Finland-Turku: Unmanned aerial vehicles
2023/S 124-395039**

Contract notice

Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1) Name and addresses

Official name: University of Turku
National registration number: 0245896-3
Postal address: Yliopistonmäki
Town: Turku
NUTS code: FI Suomi / Finland
Postal code: 20014
Country: Finland
Contact person: Jaakko Uotila
E-mail:
Telephone: +358 503839896

Internet address(es):

Main address:

I.1) Name and addresses

Official name: Aalto University Foundation sr
National registration number: 2228357-4
Postal address: Otakaari 24
Town: Espoo
NUTS code: FI1C Etelä-Suomi
Postal code: 02150
Country: Finland
E-mail:

Internet address(es):

Main address:

I.1) Name and addresses

Official name: University of Oulu
National registration number: 0245895-5
Town: Oulu
NUTS code: FI1D Pohjois- ja Itä-Suomi
Postal code: 90014
Country: Finland
E-mail:

Internet address(es):

Main address:

I.1) Name and addresses

Official name: Suomen ympäristökeskus (Finnish Environment Institute)

National registration number: 0996189-5

Postal address: Latokartanonkaari 11

Town: Helsinki

NUTS code: FI Suomi / Finland

Postal code: 00790

Country: Finland

E-mail:

Internet address(es):

Main address:

I.1) Name and addresses

Official name: National Land Survey of Finland

National registration number: 0245954-4

Postal address: Opastinsilta 12 C

Town: Helsinki

NUTS code: FI Suomi / Finland

Postal code: 00520

Country: Finland

E-mail:

Internet address(es):

Main address:

I.2) Information about joint procurement

The contract involves joint procurement

I.3) Communication

The procurement documents are available for unrestricted and full direct access

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object**II.1) Scope of the procurement****II.1.1) Title:**

Long-range aerial drone with heavy payload and Aerial drone fleet with docking station

II.1.2) Main CPV code

35613000 Unmanned aerial vehicles

II.1.3) Type of contract

Supplies

II.1.4) Short description:

The contracting authorities intends to jointly buy:

Long-range aerial drone (unmanned aerial vehicle (UAV)) with take-off weight less than 25 kg. Payload should be over 6 kg. Total weight of the drone should be under 25 kg. The drone should be suitable for vertical take-off and landing. The drone will be designed as a field mapping tool for the laser scanners, optical cameras, water quality/quantity sensors, etc. These kinds of instrumentation should be able to be attached onto the drone, occasionally more than one at a time. Flight time with 6 kg payload should be 50 minutes or more. Minimum flight speed of the drone should be 5 m/s or less. Capability also to fly with up to 12 m/s flight speed or more. and

Aerial drone fleet with data loading and recharging docking station (unmanned aerial vehicle (UAV)) with take-off weight less than 25 kg. Total weight not exceeding 25 kg, payload capacity more than 2 kg l (payload must be interchangeable e.g., RGB, spectral cameras, lidar). Therefore, these kinds of instrumentations should be able to attach onto the drone. Flight time with maximum payload should be more than 1 hrs. Minimum flight speed of the drone should be 3 m/s or less. Capability also to fly with up to 8 m/s or more.

The purchase is divided into two independent parts. Tenderers may offer any or all parts.

II.1.5) **Estimated total value**

Value excluding VAT: 600 000.00 EUR

II.1.6) **Information about lots**

This contract is divided into lots: yes

Tenders may be submitted for all lots

II.2) **Description**

II.2.1) **Title:**

Long-range aerial drone with heavy payload

Lot No: 1

II.2.2) **Additional CPV code(s)**

35613000 Unmanned aerial vehicles

31000000 Electrical machinery, apparatus, equipment and consumables; lighting

35000000 Security, fire-fighting, police and defence equipment

II.2.3) **Place of performance**

NUTS code: FI Suomi / Finland

Main site or place of performance:

Turku

II.2.4) **Description of the procurement:**

Long-range aerial drone (unmanned aerial vehicle (UAV)) with take-off weight less than 25 kg. Payload should be over 6 kg. Total weight of the drone should be under 25 kg. The drone should be suitable for vertical take-off and landing. The drone will be designed as a field mapping tool for the laser scanners, optical cameras, water quality/quantity sensors, etc. These kinds of instrumentation should be able to be attached onto the drone,

occasionally more than one at a time. Flight time with 6 kg payload should be 50 minutes or more. Minimum flight speed of the drone should be 5 m/s or less. Capability also to fly with up to 12 m/s flight speed or more. Further, drone should have:

- CE label
- Safety systems for landing (e.g. parachute)
- Operation wind conditions, up to 12 m/s wind speed (higher values preferred)
- Electric or hybrid motor
- Remote control: radio control up to 15 km range. Option to be able to support longer range 30 km+ have to be offered this can be e.g. LTE link or a satellite C2 link. Also real-time video feed from drone to remote control have to be included.
- Size of the system: under 3 meters in diameter, transport less than size 2 m in diameter
- Maintenance program, costs of the maintenance and maintenance programme (done by user or company) should be specified. (user maintenance preferred)
- Operating Temperature -10 to 40C, (lower temperatures preferred)
- The drone should be equipped with a location positioning system (GNSS: GPS+GLONASS+BeiDou+Galileo). Options for RTK and VRS functions are required.
- The Ingress protection rating must be IP45 at minimum. (higher values preferred)
- Applications: Remote control software. Cloud Platform support (EU based), can be own cloud or a support of 3rd Party Platforms through API or similar.

II.2.5) **Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) **Estimated value**

Value excluding VAT: 300 000.00 EUR

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Start: 01/11/2023

This contract is subject to renewal: no

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: yes

Description of options:

This slot includes mandatory options such as:

Mandatory options must be offered and are:

- Option to be able to support longer range 30 km+ have to be offered this can be e.g. LTE link or a satellite C2 link
- Maintenance program, costs of the maintenance and maintenance programme (done by user or company) should be specified. (user maintenance preferred)
- Options for RTK and VRS functions

The use of options is at the sole discretion of the Buyers. Options are not used in price comparison or in quality evaluations so a tenderer should not include these prices into the total comparison price but inform prices in a separate appendix.

II.2.13) **Information about European Union funds**

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project:

This project is funded from EU Recovery and Resilience Facility (RRF), European commission and therefore certain supplier information are required prior into entering a contract.

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

Aerial drone fleet with docking station

Lot No: 2

II.2.2) **Additional CPV code(s)**

35613000 Unmanned aerial vehicles

34000000 Transport equipment and auxiliary products to transportation

35000000 Security, fire-fighting, police and defence equipment

II.2.3) **Place of performance**

NUTS code: FI Suomi / Finland

Main site or place of performance:

Turku

II.2.4) **Description of the procurement:**

Aerial drone fleet with data loading and recharging docking station (unmanned aerial vehicle (UAV)) with take-off weight less than 25 kg. Total weight not exceeding 25 kg, payload capacity more than 2 kg l (payload must be interchangeable e.g., RGB, spectral cameras, lidar). Therefore, these kinds of instrumentations should be able to attach onto the drone. Flight time with maximum payload should be more than 1 hrs. Minimum flight speed of the drone should be 3 m/s or less. Capability also to fly with up to 8 m/s or more.

Further, drone and docking station should have:

- CE label
- Safety systems for landing (e.g. parachute)
- System should be fully electric
- Drone and its sensors should fit onto docking station
- Operation wind conditions, up to 12 m/s wind speed (higher values preferred)
- Size of the system: under 3 meters in diameter, transport less than size 2 m in diameter
- A water proof (IP44 minimum, recommended IP55) drone and drone platform for outdoor use.
- Minimum 4G connection with automatic data transfer to cloud service or similar.
- Costs of the maintenance and maintenance programme (done by user or company) should be specified. (user maintenance preferred)
- Operating Temperature -10 to 40C,
- The drone should be equipped with a location positioning system (GNSS: GPS+GLONASS+BeiDou+Galileo). Options for RTK and VRS functions are required.
- Battery swap and/or charge so that downtime is less than 30 minutes with a lifespan of over 1000+ cycles.
- Applications: Remote control software. Cloud Platform support (EU based), can be own cloud or a support of 3rd Party Platforms through API or similar.

II.2.5) **Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) **Estimated value**

Value excluding VAT: 300 000.00 EUR

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Start: 01/11/2023

This contract is subject to renewal: no

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: yes

Description of options:

This slot includes mandatory options such as:

Mandatory options must be offered and are:

- Option to be able to support longer range 30 km+ have to be offered this can be e.g. LTE link or a satellite C2 link

- Maintenance program, costs of the maintenance and maintenance programme (done by user or company) should be specified. (user maintenance preferred)

- Options for RTK and VRS functions

The second Aerial drone fleet with data loading and recharging docking station, at the same price and terms as the first offered Aerial drone fleet with data loading and recharging docking station.

The use of options is at the sole discretion of the Buyers. Options are not used in price comparison or in quality evaluations so a tenderer should not include these prices into the total comparison price but inform prices in a separate appendix.

II.2.13) Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project:

This project is funded from EU Recovery and Resilience Facility (RRF), European commission and therefore certain supplier information are required prior into entering a contract.

II.2.14) Additional information**Section III: Legal, economic, financial and technical information****III.1) Conditions for participation****III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions:

see ESPD

III.1.2) Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3) Technical and professional ability

Selection criteria as stated in the procurement documents

Section IV: Procedure**IV.1) Description****IV.1.1) Type of procedure**

Open procedure

IV.1.3) Information about a framework agreement or a dynamic purchasing system**IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: yes

IV.2) Administrative information**IV.2.2) Time limit for receipt of tenders or requests to participate**

Date: 14/08/2023

Local time: 13:00

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- IV.2.3) **Estimated date of dispatch of invitations to tender or to participate to selected candidates**
- IV.2.4) **Languages in which tenders or requests to participate may be submitted:**
English
- IV.2.6) **Minimum time frame during which the tenderer must maintain the tender**
Duration in months: 4 (from the date stated for receipt of tender)
- IV.2.7) **Conditions for opening of tenders**
Date: 14/08/2023
Local time: 13:05
Place:
Turku
Information about authorised persons and opening procedure:
Not public

Section VI: Complementary information

- VI.1) **Information about recurrence**
This is a recurrent procurement: no
- VI.3) **Additional information:**
- VI.4) **Procedures for review**
- VI.4.1) **Review body**
Official name: Markkinaoikeus
Postal address: Radanrakentajantie 5
Town: Helsinki
Postal code: 00520
Country: Finland
E-mail:
Telephone: +358 295643300
Internet address:
- VI.5) **Date of dispatch of this notice:**
27/06/2023