

**Finland-Turku: Geological and geophysical instruments**

**OJ S 70/2022 08/04/2022**

**Contract notice**

**Supplies**

**Legal Basis:**

Directive 2014/24/EU

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**Section I: Contracting authority**

**I.1. Name and addresses**

Official name: University of Turku

National registration number: 0245896-3

Postal address: Naturankuja 2

Town: Turku

NUTS code: FI1C1 Varsinais-Suomi

Postal code: 20500

Country: Finland

Contact person: Jaakko Uotila

E-mail: [procurement@utu.fi](mailto:procurement@utu.fi)

Telephone: +358 503839896

**Internet address(es):**

Main address: <http://www.utu.fi>

**I.3. Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://tarjouspalvelu.fi/hanki?id=393712&tpk=3b75e62e-2b27-4694-a8a8-8fe1d30f4db2>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://tarjouspalvelu.fi/hanki?id=393712&tpk=3b75e62e-2b27-4694-a8a8-8fe1d30f4db2>

**I.4. Type of the contracting authority**

Body governed by public law

**I.5. Main activity**

Education

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**Section II: Object**

**II.1. Scope of the procurement**

**II.1.1. Title**

Autonomous Surface Vehicle (ASV)

Reference number: TY/194/02.04.00/2022

**II.1.2. Main CPV code**

38200000 Geological and geophysical instruments

**II.1.3. Type of contract**

Supplies

#### **II.1.4. Short description**

University intends to purchase an Autonomous Surface Vehicle (ASV) including riverine measuring sensors as follows: side-scanning sonar, Multibeam Echosounder, ADCP, laser scanner, VRS-GNNS, water quality sensor (cf. options).

#### **II.1.5. Estimated total value**

Value excluding VAT: 300 000,00 EUR

#### **II.1.6. Information about lots**

This contract is divided into lots: no

### **II.2. Description**

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

38290000 Surveying, hydrographic, oceanographic and hydrological instruments and appliances, 34520000 Boats, 34930000 Marine equipment, 38500000 Checking and testing apparatus, 38000000 Laboratory, optical and precision equipments (excl. glasses)

#### **II.2.3. Place of performance**

NUTS code: FI1C1 Varsinais-Suomi

Main site or place of performance: Turku

#### **II.2.4. Description of the procurement**

The minimum, compulsory requirements are:

- Autonomous navigation including route planning capability
- Autonomous object recognition
- Remote control capability for navigation and sensors (as options 1-5)
- Effective measuring speed of 2 knots in fluvial environment
- VRS-GNSS position and GNSS-compass
- Inertia measurement unit with 0.03 degree detection level (roll & pitch)
- Minimum 4 h battery life in fluvial environment
- Protected thrusters
- Softwares and firmwares (windows) installed
- ASV and all selected options should be installed and ready to use
- Training in Finland at Univ. of Turku or riversite in Finland
- Define annual maintenance fee and software licences
- Payload minimum 5 kg (dry weight)
- Detachable to Sontek M9 ADCP (the present, existing device of the University)

#### **II.2.5. Award criteria**

Criteria below

Price

#### **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: 31/08/2022

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:

A tender must also include the following options with a price for each option:

OPTION1: ADCP integrated to ASV

- ADCP for riverine measurements
- Scaling in flow value pixels by depth (down to centimeter pixel size)
- Software (windows) for flow and discharge measurements
- ADCP suitable for bathymetric mapping

OPTION2: Side-scanning sonar integrated to ASV

- Side-scanning sonar capable for shallow water bathymetry (under 1m depth)
- Software (windows) for bathymetric mapping

OPTION3: Multibeam Echosounder integrated to ASV

- Multibeam Echosounder capable for shallow water bathymetry mapping (under 1m depth)
- Software (windows) for bathymetric mapping

OPTION4: Laser scanner integrated to ASV

- Near-infrared wavelength
- Weight less than 1,5 kg
- Scanning distance 100 m or more
- Software (windows) for laser scanning and 3D mapping

OPTION5: Water quality sensor integrated to ASV

- o Conductivity
- o Temperature
- o pH
- o Turbidity

- Software (windows) for water quality sampling

- Define annual maintenance fee and software licences of Option 1-5.

The use of options is at the sole discretion of the University. Options are used in the price comparison.

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

The procurement is related to a project and/or programme financed by European Union funds:  
no

### **II.2.14. Additional information**

## **Section III: Legal, economic, financial and technical information**

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### **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-form

#### **III.1.2. Economic and financial standing**

List and brief description of selection criteria:  
see espd-form

#### **III.1.3. Technical and professional ability**

Selection criteria as stated in the procurement documents

## **III.2. Conditions related to the contract**

### **III.2.2. Contract performance conditions**

A separate purchase contract shall be made after a procurement decision.

## **Section IV: Procedure**

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### **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: 10/05/2022 Local time: 13:00

#### **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**

Tender must be valid until: 31/07/2022

#### **IV.2.7. Conditions for opening of tenders**

Date: 10/05/2022 Local time: 13:05

Place:

Turku

Information about authorised persons and opening procedure: Not public

## **Section VI: Complementary information**

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### **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: Sörnäistenkatu 1

Town: Helsinki

Postal code: 00580

Country: Finland

E-mail: [markkinaoikeus@oikeus.fi](mailto:markkinaoikeus@oikeus.fi)

Telephone: +358 295643300

Internet address: <http://www.oikeus.fi/markkinaoikeus>

**VI.5. Date of dispatch of this notice**

05/04/2022