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Tender

## **UKRI-2425 Custom Water Tank for Experiments at Boulby Underground Laboratory**

UK Research & Innovation

F02: Contract notice

Notice identifier: 2022/S 000-030716

Procurement identifier (OCID): ocids-h6vhtk-037dc7

Published 31 October 2022, 4:05pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

UK Research & Innovation

<https://www.ukri.org/>, North Star Avenue

Swindon

SN2 1FL

#### **Contact**

Elizabeth Gage

#### **Email**

[Elizabeth.Gage@ukri.org](mailto:Elizabeth.Gage@ukri.org)

#### **Telephone**

+44 7563420665

#### **Country**

United Kingdom

**Region code**

UK - United Kingdom

**Internet address(es)**

Main address

<https://www.ukri.org/>

**I.2) Information about joint procurement**

The contract is awarded by a central purchasing body

**I.3) Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://ukri.delta-esourcing.com/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted to the above-mentioned address

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

Body governed by public law

**I.5) Main activity**

Other activity

Research

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## **Section II: Object**

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

#### **II.1.1) Title**

UKRI-2425 Custom Water Tank for Experiments at Boulby Underground Laboratory

Reference number

UKRI-2425

#### **II.1.2) Main CPV code**

- 44611500 - Water tanks

#### **II.1.3) Type of contract**

Supplies

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

The BUTTON project is organised and managed by STFC with staff at STFC responsible for the facilitating access to the host laboratory and for the health and safety of all personnel working on the project underground. Boulby staff will accept delivery of the tank and supervise the installation in the underground laboratory. Partners within academia are funded by STFC to support the development, design, installation, and operation of the BUTTON project. The principal investigator (PI) for the project is based at the University of Sheffield and the integration manager at the University of Liverpool. The project manager and PI have appointed a team led by a work package lead to organise activity relating to the tank. Once the tank is installed a group of engineers, scientists and technicians will be responsible for the installation and experimental operation of the project, under the supervision of Boulby staff.

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

Value excluding VAT: £190,000

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

This contract is divided into lots: No

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

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

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

STFC has funded a project to develop neutrino detection technologies for nuclear non-proliferation activities as part of an international programme with partners in the UK and USA. The project is funded in the UK by the Fund for International Collaboration and by the Ministry of Defence (MOD) as part of the nuclear threat reduction activity led by the Atomic Weapons Establishment (AWE) and by National Nuclear Security Administration (NNSA) in the USA.

A key aspect of the joint programme of work is the construction of a neutrino detection technology testbed, the BUTTON (Boulby Underground Testbed for Technologies Observing Neutrinos) experiment, at Boulby Underground Laboratory. The BUTTON testbed will be used to evaluate the performance of scintillation media such as water based liquid scintillator and liquidO and new detection technologies such as wavelength shifting plate detectors and large area picosecond photodetectors (LAPPDs).

The design of the BUTTON testbed comprises a cylindrical tank that will contain 30 tonnes of liquid media, as illustrated in Figure 1. An internal support structure that will cover the inside surface area will be mounted to the base of the tank that will support up to 96 photomultiplier tubes (PMTs) that will cover the surface area of the tank walls, base, and lid.

#### **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: £190,000

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

Duration in months

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: No

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

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

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Open procedure

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: No

### **IV.2) Administrative information**

#### **IV.2.2) Time limit for receipt of tenders or requests to participate**

Date

12 December 2022

Local time

2:00pm

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

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

Date

12 December 2022

Local time

3:00pm

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.2) Information about electronic workflows**

Electronic invoicing will be accepted

Electronic payment will be used

### **VI.3) Additional information**

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

<https://ukri.delta-esourcing.com/tenders/UK-UK-Swindon:-Water-tanks./743MX386A2>

To respond to this opportunity, please click here:

<https://ukri.delta-esourcing.com/respond/743MX386A2>

GO Reference: GO-20221031-PRO-21315073

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

UK Research and Innovation

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