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Planning

UKAEA RACE - RAICo Request for Expressions of Interest - Data Exploitation

United Kingdom Atomic Energy Authority

F01: Prior information notice
Prior information only
Notice identifier: 2022/S 000-021788
Procurement identifier (OCID): ocds-h6vhtk-0359ff
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Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Contact

Phil Perkins

Email

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Telephone

+44 1235467147

Country

United Kingdom

NUTS code

UKJ14 - Oxfordshire

National registration number

N/A

Internet address(es)

Main address

http://www.gov.uk/government/organisations/uk-atomic-energy-authority

Buyer's address

https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/72814

I.3) Communication

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

https://uk.eu-supply.com/ctm/Supplier/Documents/Folder/45975

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Fusion Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKAEA RACE - RAICo Request for Expressions of Interest - Data Exploitation

Reference number

T/PJP144/22

II.1.2) Main CPV code

- 72314000 - Data collection and collation services

II.1.3) Type of contract

Services

II.1.4) Short description

UKAEA RACE - RAICo are investigating the creation of an enhanced suite of tools for merging and utilising data collected by robot/sensor from hazardous nuclear decommissioning site locations. Improving the reliability, repeatability, and breadth of supporting data to enable faster, safer, and cheaper decision making for decommissioning and maintenance applications.

It seeks to do this by engaging with industry and academia to combine recent advances from other fields, to develop a data exploitation framework focused on a unified data format suitable for nuclear decommissioning.

II.1.5) Estimated total value

Value excluding VAT: £1,500,000

II.1.6) Information about lots

This contract is divided into lots: Yes

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

The procurement may be split into 4 lots as described in the linked Request for Expressions of Interest.

Project ID Task Title

20 Nuclear Building Information Modelling (BIM)

21 Decommissioning Data Viewer

22 Automated Inspection

23 Remote Health Physics

II.2) Description

II.2.1) Title

Nuclear Building Information Modelling (BIM)

Lot No

1

II.2.2) Additional CPV code(s)

- 72300000 - Data services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

II.2.4) Description of the procurement

Development and demonstration of a nuclear BIM suitable for supporting nuclear fusion and fission decommissioning.

This shall include importing existing CAD, connecting related textual records, maintenance logs, and capture data from inspection robots and sensors.

The nuclear BIM shall include the ability to include radiological and contamination data. Beyond this, it shall also include the ability to include uncertain or incomplete data.

We will be seeking expertise in all digital related technology skill sets and capabilities to

support the development of a nuclear BIM.

II.2) Description

II.2.1) Title

Decommissioning Data Viewer

Lot No

2

II.2.2) Additional CPV code(s)

* 72300000 - Data services

II.2.3) Place of performance

NUTS codes

* UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

II.2.4) Description of the procurement

This project will develop an intuitive interface to the Nuclear BIM, allowing multiple types of users to inspect a plant, and easily interact with the data that they require (e.g. overlaying radiological data). This shall include VR representations for the 3D data.

We will be seeking expertise in all digital related technology skill sets and capabilities.

II.2) Description

II.2.1) Title

Automated Inspection

Lot No

3

II.2.2) Additional CPV code(s)

* 72300000 - Data services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

II.2.4) Description of the procurement

This project shall focus on routinely and autonomously exploring and inspecting large complex regions enabling this in nuclear decommissioning and ensuring that the data is returned in a standard format suitable for the nuclear BIM.

We will be seeking expertise in all digital / inspection related technology skill sets and capabilities.

II.2) Description

II.2.1) Title

Remote Health Physics

Lot No

4

II.2.2) Additional CPV code(s)

- 90743100 - Toxic substances monitoring services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

Whitehaven, Cumbria

II.2.4) Description of the procurement

For most decommissioning operations, multiple radiological protection workers are required to be on standby in uncomfortable PPE for the entire period of an operation. This

can cause delays and puts additional people at risk. With the advent of readily available mobile robotics, it should be possible to deploy remote platforms to complete some of the monitoring tasks remotely.

This project focuses on the development and in-field testing of remote health physics techniques.

We will be seeking expertise in all digital technology / health physics related skill sets and capabilities.

II.3) Estimated date of publication of contract notice

30 January 2023

Section IV. Procedure

IV.1) Description

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

The procurement is covered by the Government Procurement Agreement: Yes