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Planning

REBCO High Temperature Superconductors

United Kingdom Atomic Energy Authority (UKAEA)

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-015128

Procurement identifier (OCID): ocds-h6vhtk-02c28c

Published 1 July 2021, 5:08pm

Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority (UKAEA)

Culham Science Centre

Abingdon

OX14 3DB

Contact

Daniel Brown

Email

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Telephone

+44 7546653628

Country

United Kingdom

NUTS code

UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

National registration number

United Kingdom Atomic Energy Authority (UKAEA)

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/app/rfq/rwlenrance_s.asp?PID=38605&B=UK

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

REBCO High Temperature Superconductors

Reference number

T/DB104/21

II.1.2) Main CPV code

- 73210000 - Research consultancy services

II.1.3) Type of contract

Services

II.1.4) Short description

The magnets for STEP will be required to carry very large currents, in high magnetic fields, and with losses kept to a minimum. The most promising materials for this application are REBCO-based high temperature superconductors. The use of these materials allows for designs with much lower Joule heating losses than resistive materials, and REBCO operates at higher temperatures and in higher magnetic fields than low temperature superconductors such as Nb₃Sn. The purpose of this RFI is to enable UKAEA to: Understand the performance of REBCO-based high temperature superconductors, Understand the supply chain capacity to produce these conductors at tokamak-relevant scales, This information will directly impact on future tender opportunities relating to this area

II.1.5) Estimated total value

Value excluding VAT: £200,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 24315500 - Compounds of rare earth metals
- 44318000 - Conductors

II.2.3) Place of performance

NUTS codes

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

II.2.4) Description of the procurement

The magnets for STEP will be required to carry very large currents, in high magnetic fields, and with losses kept to a minimum. The most promising materials for this application are REBCO-based high temperature superconductors. The use of these materials allows for designs with much lower Joule heating losses than resistive materials, and REBCO operates at higher temperatures and in higher magnetic fields than low temperature superconductors such as Nb₃Sn. The purpose of this RFI is to enable UKAEA to: Understand the performance of REBCO-based high temperature superconductors, Understand the supply chain capacity to produce these conductors at tokamak-relevant scales, This information will directly impact on future tender opportunities relating to this area

II.2.14) Additional information

if you have any issues downloading documents please contact daniel.brown@ukaea.uk

II.3) Estimated date of publication of contract notice

29 October 2021

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