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Planning

Superconducting Magnet

United Kingdom Atomic Energy Authority

F01: Prior information notice
Prior information only
Notice identifier: 2021/S 000-022380
Procurement identifier (OCID): ocds-h6vhtk-02dedb
Published 9 September 2021, 12:08pm

Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Contact

Abigail Woods

Email

abigail.woods@ukaea.uk

Telephone

+44 1235467082

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/app/rfq/rwlentrance_s.asp?PID=39539&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

Superconducting Magnet

Reference number

T/AW176/21

II.1.2) Main CPV code

- 31630000 - Magnets

II.1.3) Type of contract

Supplies

II.1.4) Short description

For an experimental setup, UKAEA wishes to procure a superconducting solenoid. One type of experiment performed with the solenoid will be field cooling of bulk superconductors.

The preference is for a conduction-cooled helium-free magnet.

II.1.5) Estimated total value

Value excluding VAT: £150,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 31630000 - Magnets

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

II.2.4) Description of the procurement

For an experimental setup, UKAEA wishes to procure a superconducting solenoid. One type of experiment performed with the solenoid will be field cooling of bulk superconductors.

The preference is for a conduction-cooled helium-free magnet.

The parameters of the solenoid are anticipated to be in the following range:

The field at the magnet centre is vertical

Access to the solenoid field is at room temperature via a re-entrant tail from beneath or above the cryostat.

Tail room temperature bore: 60-70 mm

The warm bore extends at least 50 or 60 mm above the solenoid mid plane, but as low as reasonably practicable

Peak field in bore: 6 T or up to 8 T maximum

Field homogeneity within a cylinder 10 mm long and 40 mm radius, centre coincident with that of the solenoid: ±0.5% or better

Sweep rate: zero to maximum field in 60 min or less

Persistence: to be decided

The experimental setup may require this magnet to be moved in horizontal and/or vertical direction while de-energised.

The scope of the delivery will include:

Magnet, cryostat and cold head assembly

Compressor and flexible lines

Power supply

Programmable magnet control system

Factory and site acceptance test

II.3) Estimated date of publication of contract notice

11 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: No