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Planning

HIGH PERFORMANCE PLASMA - PEDESTAL ANALYSIS DEVELOPMENT

United Kingdom Atomic Energy Authority (UKAEA)

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-014378

Procurement identifier (OCID): ocds-h6vhtk-02bf9d

Published 24 June 2021, 10:06am

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=38484&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

HIGH PERFORMANCE PLASMA - PEDESTAL ANALYSIS DEVELOPMENT

Reference number

T/DB107/21

II.1.2) Main CPV code

- 73300000 - Design and execution of research and development

II.1.3) Type of contract

Services

II.1.4) Short description

A high-performance plasma boundary region is key to the success of STEP. However, a confined plasma region with an edge transport barrier (ETB) close to the separatrix which, owing to the steep gradients, is typically generating type-I ELMs.

Type-I ELMs will not be sustainable in a reactor relevant device with high pedestal pressures. Current high performance regimes have been developed that either have no ELMs or only small instabilities but so far no or only very limited predictive capability exists for these regimes.

Development of no ELM regimes are of particular interest to the STEP team and are likely to be necessary to deliver the required STEP performance regimes.

UKAEA are looking for expertise in pedestal development modelling for: Support in modelling and assessing QH-mode operation for STEP , Support in modelling RMP ELM suppression, Support in the development of suitable reduced models to capture the essence of no-ELM or small ELM regimes in an integrated way.

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)

- 73110000 - Research services
- 73200000 - Research and development consultancy services

II.2.3) Place of performance

NUTS codes

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

II.2.4) Description of the procurement

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II.3) Estimated date of publication of contract notice

27 August 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