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Planning

Dummy Load of the MAST-U EBW System

United Kingdom Atomic Energy Authority

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-028446

Procurement identifier (OCID): ocds-h6vhtk-02f68d

Published 15 November 2021, 12:10pm

Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Contact

Hugo Silva

Email

hugo.silva@ukaea.uk

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/rwlenrance_s.asp?PID=40678&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

Dummy Load of the MAST-U EBW System

Reference number

T/HS258/21

II.1.2) Main CPV code

- 31711422 - Microwave equipment

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKAEA is installing an Electron Bernstein Wave (EBW) system on MAST-U, which aims at injecting two dual-frequency (28 and 34.8GHz) microwave beams each of up to 900kW and pulse duration of 4.5s.

The system will consist of two RF sources, their power supplies, control systems, ancillary services, transmission lines, and a steerable in-vacuum quasi-optical launching system, as well as a dummy load.

The primary function of the dummy load is to absorb the microwave energy in a safe and non-destructive manner from the gyrotrons when the energy is not directed at the MAST-U plasma. The load also needs to provide functionality in terms of measuring the power being absorbed by the load, which is imperative for initial testing and gyrotron acceptance.

II.1.5) Estimated total value

Value excluding VAT: £1

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 38418000 - Calorimeters
- 38970000 - Research, testing and scientific technical simulator

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

II.2.4) Description of the procurement

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The system will consist of two RF sources, their power supplies, control systems, ancillary services, transmission lines, and a steerable in-vacuum quasi-optical launching system, as well as a dummy load.

The primary function of the dummy load is to absorb the microwave energy in a safe and non-destructive manner from the gyrotrons when the energy is not directed at the MAST-U plasma. The load also needs to provide functionality in terms of measuring the power being absorbed by the load, which is imperative for initial testing and gyrotron acceptance.

II.3) Estimated date of publication of contract notice

15 February 2022

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