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Planning

Comms-on-the-move Electronically Steerable Antenna Test facility (CESAT)

Satellite Applications Catapult

F01: Prior information notice
Prior information only
Notice identifier: 2022/S 000-029217
Procurement identifier (OCID): ocds-h6vhtk-037670
Published 17 October 2022, 4:09pm

Section I: Contracting authority

I.1) Name and addresses

Satellite Applications Catapult

Electron Building, Fermi Avenue, Harwell

Didcot

OX11 0QR

Email

procurement@sa.catapult.org.uk

Telephone

+44 1235567977

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

https://sa.catapult.org.uk/

Buyer's address

https://www.mytenders.co.uk/search/Search_AuthProfile.aspx?ID=AA42845

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Other type

RTO

I.5) Main activity

Other activity

Space Sector

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Comms-on-the-move Electronically Steerable Antenna Test facility (CESAT)

Reference number

RFP-FY-23-20

II.1.2) Main CPV code

- 32530000 - Satellite-related communications equipment

II.1.3) Type of contract

Supplies

II.1.4) Short description

The Catapult wishes to create a unique antenna test facility to undertake performance and verification tests on Satellite comms terminals on the move. The Catapult wishes to procure a Large Compact Antenna Test Range (CATR) to satisfy a baseline capability on a novel and unique undertaking to test and verify Comms on The Move (CotM) terminals that connect to Low Earth Orbit (LEO) satellite constellations.

For all information, please see attachment “RFP-FY-23-20 PIN Supporting Document”.

II.1.6) Information about lots

This contract is divided into lots: Yes

II.2) Description

II.2.1) Title

Physical Chamber structure and absorber

Lot No

1

II.2.2) Additional CPV code(s)

- 42992200 - Anechoic chamber
- 32324310 - Satellite antennas

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

The CATR will form the basis and be used to support the test and performance measurements of satellite mobile phased-array antennas and terminals, in dynamic scenarios, where both the satellite and user are in motion and operating in the L S, C, X band Ku and Ka frequency bands (1 Ghz - 32 GHz). Required components are outlined in the document “RFP-FY-23-20 PIN Supporting Document”.

The proposed system while is made up of a baseline CATR, the final system will make use of robotic arms to provide the movement of a novel phased array to replicate a LEO satellite in orbital motion, a fixed positioner that has capability to replicate movement relative to a vehicle, ship or aircraft. Where the device under test is being exercised in an emulated RF environment and the performance of such a DUT can be characterised. This will include thermal transitions to emulate the true operating environment the terminal would endure.

II.2.14) Additional information

We are requesting that any potential suppliers email us at procurement@sa.catapult.org.uk using the subject line “RFP-FY-23-20 PIN Response”, making us aware of their ability to deliver some or all of the componentry required and outlined in this PIN. Please outline lead times, with the understanding that the Catapult requires availability for delivery to be made no later than 01/03/2023.

II.2) Description

II.2.1) Title

Positions and robotic arm and relevant software

Lot No

2

II.2.2) Additional CPV code(s)

- 32324310 - Satellite antennas
- 42992200 - Anechoic chamber

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Harwell

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II.2) Description

II.2.1) Title

Test equipment

Lot No

3

II.2.2) Additional CPV code(s)

- 32324310 - Satellite antennas
- 42992200 - Anechoic chamber

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Harwell

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II.2) Description

II.2.1) Title

RF Components

Lot No

4

II.2.2) Additional CPV code(s)

- 32324310 - Satellite antennas

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

The CATR will form the basis and be used to support the test and performance measurements of satellite mobile phased-array antennas and terminals, in dynamic scenarios, where both the satellite and user are in motion and operating in the L S, C, X band Ku and Ka frequency bands (1 Ghz - 32 GHz). Required components are outlined in the document “RFP-FY-23-20 PIN Supporting Document”.

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II.3) Estimated date of publication of contract notice

1 November 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

Section VI. Complementary information

VI.3) Additional information

To participate in any eventual tender opportunity, interested parties must be registered on the MyTenders portal with up-to-date contact details to include company name and email. If you have any issues, please contact procurement@sa.catapult.org.uk

NOTE: To register your interest in this notice and obtain any additional information please visit the myTenders Web Site at https://www.mytenders.co.uk/Search/Search_Switch.aspx?ID=227687.

(MT Ref:227687)