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Tender

Ubiquitous Connectivity Framework

Satellite Applications Catapult

F02: Contract notice

Notice identifier: 2022/S 000-030540

Procurement identifier (OCID): ocds-h6vhtk-0376c6

Published 28 October 2022, 3:03pm

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

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

The procurement documents are available for unrestricted and full direct access, free of charge, at

http://mytenders.co.uk

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

http://mytenders.co.uk

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

Ubiquitous Connectivity Framework

Reference number

SAC-DF-001

II.1.2) Main CPV code

• 73000000 - Research and development services and related consultancy services

II.1.3) Type of contract

Services

II.1.4) Short description

The Satellite Applications Catapult is seeking to establish a Research and Technology Organisation (RTO) Dynamic Framework (DF) to support the delivery objectives of our Ubiquitous Connectivity (UC) team.

The main objective of the UC team is to deliver on collaborative projects in partnership with consortium members for different types of customers ranging from end-users, industry, government/councils, LEPs etc. The framework is need for the following reasons. Firstly, we recognise that there are some areas of expertise which may not exist with the team, therefore this framework will hopefully fill these gaps. Secondly, in periods of peak project load, the framework will allow the offloading of work while the team takes a more supervisory role. Thirdly, it is hoped that the framework will support more efficient processes that will allow access to off-the-shelf as well as cutting edge technologies, solutions and products which will support us not only in the timely delivery through efficient purchases but also be in the forefront of innovation.

II.1.5) Estimated total value

Value excluding VAT: £2,000,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

II.2) Description

II.2.1) Title

Radio Access Network

Lot No

1

II.2.2) Additional CPV code(s)

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services
- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Engineering design and implementation of RAN solutions (traditional RRU/BBU, OpenRAN) from 3GPP specifications for 5G onwards. This may involve the use of third-party software and hardware using opensource through to known vendors solutions. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Core Network

Lot No

2

II.2.2) Additional CPV code(s)

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services
- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Engineering design and implementation of CN solutions for 5G onwards. This may involve

the use of third-party software and hardware using opensource through to known vendors solutions. This may involve configuration of specific set of Network Functions (NFs) or the entire NF chain. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Virtualisation Technology

Lot No

II.2.2) Additional CPV code(s)

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services
- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Engineering design and deployment of virtualisation solutions adapted to the need for hosting telecoms platform (Core Network, private cloud, edge compute platforms). This may involve deployment on a wide range of hardware platforms ranging from Cisco UCS to Commercial Off The Shelf (COTS) servers. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

IoT

Lot No

4

II.2.2) Additional CPV code(s)

• 71316000 - Telecommunication consultancy services

- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services
- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32324310 Satellite antennas
- 71336000 Engineering support services
- 32530000 Satellite-related communications equipment

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Engineering design, development, and deployment of IoT platform for retrieving, storing and data visualisation. Knowledge on different protocols and topologies used on IoT nodes and their deployment that fit for purpose. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Satcom Terminal

Lot No

5

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services

- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services
- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32530000 Satellite-related communications equipment
- 32324310 Satellite antennas
- 71336000 Engineering support services

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Design, implementation, and prototyping of satellite communication terminals. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Systems Engineering

Lot No

6

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services

- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

NUTS codes

UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Engineering design, implementation, and testing of end-to-end systems at both hardware and middleware level involving sensors, edge platforms, gateways, servers etc. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Embedded Software Development

Lot No

7

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 73220000 Development consultancy services
- 64000000 Postal and telecommunications services
- 32000000 Radio, television, communication, telecommunication and related equipment
- 32500000 Telecommunications equipment and supplies
- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment

• 71336000 - Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Development of software on constrained platforms. This might involve Real-Time OS (RTOS) and bare metal development. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

RF

Lot No

8

II.2.2) Additional CPV code(s)

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
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- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

General RF engineering expertise along the RF chain. This may involve work related to 5G TN, 5G Direct NTN, satcom for all bands (including L, S, C, Ka/Ku, D, Q, W). The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+ 1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

FPGA

Lot No

9

II.2.2) Additional CPV code(s)

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
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- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Development of software on FPGA platform. The lot includes provisioning of off-the-shelf

hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+ 1 + 1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

PNT

Lot No

10

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
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- 71336000 Engineering support services

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Design and implementation of PNT related solutions. The lot includes provisioning of offthe-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Satellite Telecommunications Payload

Lot No

11

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services

- 73200000 Research and development consultancy services
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- 71336000 Engineering support services

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Design of payload for communications satellites for NTN. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Data Architecture

Lot No

12

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73210000 Research consultancy services
- 64000000 Postal and telecommunications services
- 32500000 Telecommunications equipment and supplies

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- 71336000 Engineering support services

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Design data management system that describes processes used for extracting, transforming, and loading data, ideally on a cloud environment. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

II.2) Description

II.2.1) Title

Data Analysis

Lot No

13

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71350000 Engineering-related scientific and technical services
- 71320000 Engineering design services
- 71356000 Technical services
- 73200000 Research and development consultancy services
- 73220000 Development consultancy services
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- 73210000 Research consultancy services
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- 32500000 Telecommunications equipment and supplies
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- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Design algorithms and predictive models to extract the data the project needs and help development team to implement it, typically by data scientists. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union

funds: No

II.2) Description

II.2.1) Title

Solution Architecture

Lot No

14

II.2.2) Additional CPV code(s)

- 71316000 Telecommunication consultancy services
- 71318000 Advisory and consultative engineering services
- 71320000 Engineering design services
- 71350000 Engineering-related scientific and technical services
- 71356000 Technical services
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- 73210000 Research consultancy services
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- 32324310 Satellite antennas
- 32530000 Satellite-related communications equipment
- 71336000 Engineering support services

II.2.3) Place of performance

NUTS codes

• UKJ14 - Oxfordshire

Main site or place of performance

Harwell

II.2.4) Description of the procurement

Producing High-Level Design, Low-Level Design, Technical requirements, Functional/Non-Functional requirements, etc from user requirement using systematic industry approach, backed by full traceability matrix. The lot includes provisioning of off-the-shelf hardware and software in this category.

II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months

24

This contract is subject to renewal

Yes

Description of renewals

+1 +1 years

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

Section III. Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.2) Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3) Technical and professional ability

Selection criteria as stated in the procurement documents

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

IV.1.3) Information about a framework agreement or a dynamic purchasing system

The procurement involves the establishment of a framework agreement

Framework agreement with several operators

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

IV.2) Administrative information

IV.2.1) Previous publication concerning this procedure

Notice number: 2022/S 000-029354

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

12 December 2022

Local time

8:00am

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.6) Minimum time frame during which the tenderer must maintain the tender

Tender must be valid until: 13 March 2023

IV.2.7) Conditions for opening of tenders

Date

12 December 2022

Local time

8:00am

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.3) Additional information

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=227797.

The buyer has indicated that it will accept electronic responses to this notice via the Postbox facility. A user guide is available at

https://www.mytenders.co.uk/sitehelp/help_guides.aspx.

Suppliers are advised to allow adequate time for uploading documents and to dispatch the electronic response well in advance of the closing time to avoid any last minute problems.

(MT Ref:227797)

VI.4) Procedures for review

VI.4.1) Review body

Public Procurement Review Service
Cabinet Office
London
Email
publicprocurementreview@cabinetoffice.gov.uk
Telephone
+44 3450103503
Country
United Kingdom
Internet address
https://www.gov.uk/government/publications/public-procurement-review-service-scopeand-remit