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Tender

## **PQQ: Procurement of Satellite Earth Stations and Lease of Satellite Transponder Bandwidth**

National Physical Laboratory

F02: Contract notice

Notice identifier: 2022/S 000-034262

Procurement identifier (OCID): ocids-h6vhtk-0388ab

Published 2 December 2022, 5:05pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

#### **Email**

[nina.heath@npl.co.uk](mailto:nina.heath@npl.co.uk)

#### **Country**

United Kingdom

#### **Region code**

UK - United Kingdom

#### **Internet address(es)**

Main address

[www.npl.co.uk](http://www.npl.co.uk)

### **I.3) Communication**

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

<https://lupc.bravosolution.co.uk/web/login.shtml>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://lupc.bravosolution.co.uk/web/login.shtml>

Tenders or requests to participate must be submitted to the above-mentioned address

### **I.4) Type of the contracting authority**

Body governed by public law

### **I.5) Main activity**

Other activity

Research

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

PQQ: Procurement of Satellite Earth Stations and Lease of Satellite Transponder Bandwidth

#### **II.1.2) Main CPV code**

- 32531000 - Satellite communications equipment

#### **II.1.3) Type of contract**

## Supplies

### **II.1.4) Short description**

NPL wishes to procure 6 No. satellite earth stations and the lease of satellite transponder bandwidth. The supplier is expected to test use of the transponder and the equipment by temporarily installing the latter at the NPL Teddington site.

In addition, NPL will require as an option for the equipment to be installed in its permanent locations, commissioned, maintained, serviced and covered by a minimum 3-year warranty.

An option will also be required for purchase of an additional 3 x active electronics equipment as spare components for use with the satellite earth stations.

An option will also be required for purchase of up to 4 No. additional satellite earth stations.

Please note that this Pre-qualification is now live for this procurement. Submission of the PQQ is required in order to be included in the ITT.

### **II.1.5) Estimated total value**

Value excluding VAT: £300,000

### **II.1.6) Information about lots**

This contract is divided into lots: No

## **II.2) Description**

### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

### **II.2.4) Description of the procurement**

NPL wishes to procure 6 No. satellite earth stations and the lease of satellite transponder bandwidth. The supplier is expected to test use of the transponder and the equipment by temporarily installing the latter at the NPL Teddington site.

In addition, NPL will require as an option for the equipment to be installed in its permanent locations, commissioned, maintained, serviced and covered by a minimum 3-year

warranty.

An option will also be required for purchase of an additional 3 x active electronics equipment as spare components for use with the satellite earth stations.

An option will also be required for purchase of up to 4 No. additional satellite earth stations.

A summary of the technical requirements is shown below:

This procurement relates to the provision of a satellite communication system for the purpose of time transfer comprising 6 No. x satellite terminal equipment and the lease of satellite transponder bandwidth at Ku-band frequencies.

The equipment must meet the requirements for provision of the system with Ku-band transmit frequency: 13.75-14.50 GHz, receive frequency 10.95-12.75 GHz.

The satellite transponder bandwidth shall be compatible for use with the satellite terminal equipment at three locations in mainland Britain, including NPL Teddington.

It must have a minimum bandwidth of 4 MHz and it would be desirable for this to be higher.

The satellite time will have a minimum availability of 99.5% and it would be desirable to be higher.

Existing customer modems will be used in the service.

The equipment must fulfil all regulatory requirements for operation in the UK and in the European Union. It must be CE marked, UKCA-marked or conform to equivalent international standards for electrical safety.

Active electronics such as upconverter, downconverter, power amplifiers, monitoring and control and power supply to be included in a single transceiver or other enclosures.

The equipment interface to the modem will be 70 MHz IF input and output. It will also be possible to use a 10 MHz external reference input signal.

The transceiver or other enclosures will provide temperature regulation of satellite terminal active electronics.

The receive-transmit offset antenna for use with Ku-band system will have a desirable size of 1.8 m, although could be up to 2.4 m. The antenna will be mounted on a heavy-duty mount with fine azimuth and elevation adjustments.

### **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**

End date

31 December 2023

This contract is subject to renewal

No

### **II.2.10) Information about variants**

Variants will be accepted: No

### **II.2.11) Information about options**

Options: Yes

Description of options

An option will also be required for purchase of an additional 3 x active electronics equipment as spare components for use with the satellite earth stations.

An option will also be required for purchase of up to 4 No. additional satellite earth stations.

### **II.2.13) Information about European Union Funds**

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

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Open procedure

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

The procurement is covered by the Government Procurement Agreement: No

### **IV.2) Administrative information**

#### **IV.2.1) Previous publication concerning this procedure**

Notice number: [2022/S 000-033601](#)

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

Date

3 January 2023

Local time

5:00pm

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

English

#### **IV.2.7) Conditions for opening of tenders**

Date

4 January 2023

Local time

9:00am

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

NPL Management Ltd

Hampton Road

Teddington

TW11 0LW

Country

United Kingdom