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Tender

## **Cryogen Free JJ Volt System**

National Physical Laboratory

F02: Contract notice

Notice identifier: 2025/S 000-002743

Procurement identifier (OCID): ocids-h6vhtk-04d685

Published 27 January 2025, 3:55pm

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

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

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

#### **Contact**

Gary Phillips

#### **Email**

[gary.phillips@npl.co.uk](mailto:gary.phillips@npl.co.uk)

#### **Telephone**

+44 2089773222

#### **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

Cryogen Free JJ Volt System

#### II.1.2) Main CPV code

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

#### II.1.3) Type of contract

Supplies

#### II.1.4) Short description

The National Physical Laboratory (NPL) requirement is for a complete primary voltage calibration system built around a Josephson array quantum standard.

The purpose is to move away from the current generation of standards that use liquid helium to cool the sample to one that is liquid cryogen-free with the aim that no liquid helium should be required for either cool-down or routine operation, and hence the system should be capable of continuous operation for periods of at least several months.

The system should be capable of providing:

SI traceable DC voltages up to 10 V, with an uncertainty better than 1 nV/V.

software to run the system and automate the calibration of standards.

the capability to generate AC voltages up to a few kHz.

To express interest in this tender you first need to be registered on the tendering system. Please use the following URL: <https://lupc.bravosolution.co.uk/web/login.shtml> (from where you can register if not already registered) and search for 'ITT: itt\_2533 - ITT\_123111 - Cryogen Free Josephson Junction (JJ) Voltage System'

#### II.1.5) Estimated total value

Value excluding VAT: £350,000

#### 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

Main site or place of performance

Teddington

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

The National Physical Laboratory (NPL) requirement is for a complete primary voltage calibration system built around a Josephson array quantum standard.

The purpose is to move away from the current generation of standards that use liquid helium to cool the sample to one that is liquid cryogen-free with the aim that no liquid helium should be required for either cool-down or routine operation, and hence the system should be capable of continuous operation for periods of at least several months.

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### **II.2.5) Award criteria**

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

### **II.2.6) Estimated value**

Value excluding VAT: £350,000

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

Duration in months

12

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: 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

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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: Yes

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

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

Date

11 February 2025

Local time

3:00pm

#### **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**

Duration in months: 3 (from the date stated for receipt of tender)

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

Date

11 February 2025

Local time

3:00pm

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## **Section VI. Complementary information**

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

This is a recurrent procurement: No

### **VI.3) Additional information**

As a PIN notice was issued to the market last year to enable NPL to do so, please note that tendering timescales have been reduced to 15 days.

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

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

NPL Management Limited

Teddington

TW11 0LW

Country

United Kingdom