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Planning

## **PIN: CR Tuneable Laser**

National Physical Laboratory

F01: Prior information notice

Reducing time limits for receipt of tenders

Notice identifier: 2024/S 000-020905

Procurement identifier (OCID): ocids-h6vhtk-047be3

Published 9 July 2024, 12:26pm

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

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

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

#### **Email**

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

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/>

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**

PIN: CR Tuneable Laser

#### **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**

This is a Prior Information Notice for the procurement of CR Tuneable Laser.

Qty required is 1.

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

Value excluding VAT: £500,000

### **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, UK

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

This is a Prior Information Notice for a procurement of CR Tuneable Laser.

The National Physical Laboratory (NPL) seeks the laser source system that must be tuneable over a spectral range from a minimum of 300 nm up to 2500 nm. Its output laser beam should be continuous wave (CW) or high-frequency quasi-continuous wave (e.g., ~80 MHz). The optical power of the emitted beam must be no less than 100 mW across the entire wavelength range. The beam profile should be Gaussian (e.g., TEM00) at all wavelengths. Additionally, the spectral linewidth of the laser source must not exceed 5 nm (Full Width at Half Maximum) throughout the full spectral range. The system should support computer-controlled wavelength setting via LabView and custom Python scripts, allowing automated, hands-free operation. Other requirements include stability in beam intensity (ideally 1 part in 10<sup>4</sup> over 4 hours), pointing stability (