

France-Saint-Aubin: Research and development services and related consultancy services

OJ S 15/2022 21/01/2022

Contract notice

Services

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: SYNCHROTRON SOLEIL
National registration number: 439 684 903
Postal address: L'ORME DES MERISIERS
Town: SAINT AUBIN
NUTS code: FR104 Essonne
Postal code: 91190
Country: France
E-mail: Superflat-PCP@synchrotron-soleil.fr
Telephone: +33 169359509
Internet address(es):
Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: Consorcio para la Construcción, Equipamiento y Explotación del Laboratorio de Luz Sincrotrón
National registration number: Q0801209H
Postal address: C/ Llum, 2-26
Town: Cerdanyola del Vallés
NUTS code: ES511 Barcelona
Postal code: 08290
Country: Spain
E-mail: Superflat-PCP@synchrotron-soleil.fr
Telephone: +33 169359509
Internet address(es):
Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: Deutsches Elektronen-Synchrotron DESY
National registration number: DE118714904
Postal address: Notkestraße 85
Town: Hamburg
NUTS code: DE600 Hamburg
Postal code: 22607
Country: Germany
E-mail: Superflat-PCP@synchrotron-soleil.fr
Telephone: +33 169359509
Internet address(es):
Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: Diamond Light Source Ltd

Postal address: Diamond House, Harwell Science and Innovation Campus

Town: Didcot

NUTS code: UK United Kingdom

Postal code: OX11 0DE

Country: United Kingdom

E-mail: Superflat-PCP@synchrotron-soleil.fr

Telephone: +33 169359509

Internet address(es):

Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: European Synchrotron Radiation Facility

Postal address: 71 rue des Martyrs - BP 220

Town: Grenoble

NUTS code: FRK24 Isère

Postal code: 38043

Country: France

E-mail: Superflat-PCP@synchrotron-soleil.fr

Telephone: +33 169359509

Internet address(es):

Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: European X-Ray Free-ElectronLaser Facility GmbH

Postal address: Holzkoppel 4

Town: Schenefeld

NUTS code: DEF09 Pinneberg

Postal code: 22869

Country: Germany

E-mail: Superflat-PCP@synchrotron-soleil.fr

Telephone: +33 169359509

Internet address(es):

Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (HZB)

Postal address: Hahn-Meitner-Platz 1

Town: Berlin

NUTS code: DE300 Berlin

Postal code: 14109

Country: Germany

E-mail: Superflat-PCP@synchrotron-soleil.fr

Telephone: +33 169359509

Internet address(es):

Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: Paul Scherrer Institut

Postal address: Forschungsstrasse

Town: Villigen
NUTS code: CH0 Schweiz/Suisse/Svizzera
Postal code: 5232
Country: Switzerland
E-mail: Superflat-PCP@synchrotron-soleil.fr
Telephone: +33 169359509
Internet address(es):
Main address: <https://leaps-superflat.eu>

I.1. Name and addresses

Official name: Lunds universitet
National registration number: 202100-3211
Postal address: Box 117
Town: Lund
NUTS code: SE224 Skåne län
Postal code: 221 00
Country: Sweden
E-mail: Superflat-PCP@synchrotron-soleil.fr
Telephone: +33 169359509
Internet address(es):
Main address: <https://leaps-superflat.eu>

I.2. Information about joint procurement

The contract involves joint procurement
In the case of joint procurement involving different countries, state applicable national procurement law:
The applicable national procurement law is French law and specific requirements for PCP supported by Horizon 2020 grants. This PCP is carried out by Synchrotron SOLEIL appointed as lead procurer.

I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://leaps-superflat.eu>
Additional information can be obtained from the abovementioned address
Tenders or requests to participate must be submitted to the abovementioned address

I.4. Type of the contracting authority

Body governed by public law

I.5. Main activity

Other activity: Research

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

SUPERFLAT PCP Process development for manufacture of flat X-ray mirrors
Reference number: LEAPS SUPERFLAT 2021

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

This procurement will take the form of a pre-commercial procurement (PCP) that aims to trigger new solutions to be developed and tested to address the following challenge: manufacturing 500 mm long flat silicon X-ray prototype mirrors with < 50 nanoradians rms slope and < 1 nm p.v. figure errors.

This PCP procurement is a joint procurement by different procurers across Europe.

II.1.5. Estimated total value

Value excluding VAT: 1 000 000,00 EUR

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.3. Place of performance

NUTS code: FR104 Essonne

II.2.4. Description of the procurement

The procurement takes the form of a pre-commercial procurement (PCP). The PCP will award R&D services contracts to a number of R&D providers in parallel to compare competing alternative solutions. This will be done in a phased approach with a framework agreement that covers 3 R&D phases (conceptual design, technical design and metrology validation, development of a manufacturing process & prototyping) with intermediate evaluations after each phase that will progressively select the best competing solutions that will be offered a specific contract for the next phase. Testing of the prototypes is expected to take place at one of the buyer's premises by experts and end-users and in this way the PCP will provide a first customer test reference to participating R&D providers.

This PCP will develop flat X-ray mirrors with clear apertures in excess of 500 mm long and 20 mm wide; slope and figure errors below 50 nanoradians rms and 1 nm p.v. respectively, and with roughness below 0.3 nm rms. The objective is to improve the quality of X-ray mirrors in response to the evolving needs of accelerator-based X-ray light sources.

The initiative is driven in particular by the construction and upgrade of many European user facilities to provide ultra-low emittance X-ray beams for scientists and engineers working in applications addressing many of the global challenges targeted by the Horizon Europe program of the European Commission. To harness their full potential, these facilities require reflective optics of unprecedented quality. The technical challenges include the implementation of reliable and repeatable surface processing tools coupled with accurate metrology. The final result of the PCP will be a prototype mirror produced by each tenderer with a demonstrably controlled manufacturing process. Apart from the direct benefits to the European light sources, the results of this PCP will also act to enhance European industrial competitiveness in this domain.

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: 1 000 000,00 EUR

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

Duration in months: 35

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:
yes

Identification of the project: Grant agreement No No101004728 – LEAPS-INNOV
The EU has awarded a grant for this procurement under the European Union's Horizon 2020 Research and Innovation, but is not participating as a contracting authority in the procurement.

II.2.14. Additional information

Participation in the open market consultation that was held as part of the preparation for this procurement is not a prerequisite for submitting a tender.

This procurement is exempted from the EU public procurement directives and the national laws that implement them.

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
Envisaged maximum number of participants to the framework agreement: 4

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 in the OJ S: [2021/S 191-495906](#)

IV.2.2.

Time limit for receipt of tenders or requests to participate

Date: 22/03/2022 Local time: 15:00

IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

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: 6 (from the date stated for receipt of tender)

IV.2.7. Conditions for opening of tenders

Date: 23/03/2022 Local time: 15:00

Place:

Synchrotron SOLEIL

Information about authorised persons and opening procedure: No

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

Official name: Tribunal d'Instance d'Evry

Town: EVRY

Country: France

VI.5. Date of dispatch of this notice

17/01/2022