Contract

Tender for the Supply and Installation of an Environmental Thermal Mechanical Test System to the University of Birmingham

THE UNIVERSITY OF BIRMINGHAM

F03: Contract award notice
Notice identifier: 2022/S 000-018521
Procurement identifier (OCID): ocds-h6vhtk-031fbb
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Section I: Contracting authority

I.1) Name and addresses

THE UNIVERSITY OF BIRMINGHAM

Chancellors Close

BIRMINGHAM

B152TT

Contact

Kseniya Samsonik

Email

k.samsonik@bham.ac.uk

Country

United Kingdom

NUTS code

UKG31 - Birmingham

Internet address(es)

Main address

www.birmingham.ac.uk/index.aspx

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Tender for the Supply and Installation of an Environmental Thermal Mechanical Test System to the University of Birmingham

Reference number

SC10029/22

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 University of Birmingham invites tenders for supply of an environmental thermal mechanical test system for in-situ irradiation. The University operates an MC40 Cyclotron and a neutron beam facility is currently being built. The MC40 Cyclotron can produce the proton beam energies in the range of

3~38 MeV.

To support the nuclear research in the UK, the University has been awarded a project by EPSRC to develop a system which will enable the mechanical testing of materials under vacuum (and

potentially other environments), and with the capability of in-situ irradiation.

The proposed system will have a digital control system to deliver custom deformation waveforms and cooled grips for temperature control. The system will offer the capability of vacuum (and potentially other environments), high temperature, mechanical testing with in-situ irradiation capability and integrated with

Birmingham irradiation facility. Ultimately the system will enable the evaluation of the thermal-mechanical properties at application-relevant temperature with simultaneous irradiation of a range of nuclear fission and fusion materials.

This project may be funded by the European Regional Development Fund (ERDF) or;

- European Structural and Investment Fund (ESIF) or;

- Research Councils UK (RCUK), the strategic partnership of the UK's seven Research Councils.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: 346,800 EUR

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKG31 - Birmingham

II.2.4) Description of the procurement

The University of Birmingham invites tenders for the supply of a thermal mechanical test system for in-situ irradiation. The University operates an MC40 Cyclotron and a neutron beam facility is currently being built. The MC40 Cyclotron can produce the proton beam energies in the range of 3~38 MeV. The proposed system will be integrated to the Cyclotron and/or the neutron beams for mechanical testing under elevated temperatures, with in-situ irradiation.

The system needs to be interface with the irradiation beams at the University of Birmingham. Thus, it is expected that the system should be mobile and/or adjustable in terms of the positioning.

The system shall be able to operate under different environmental conditions, such as air, vacuum or gaseous.

The system shall enable the testing of flat samples, but the capability of testing samples of other geometries (such as cylindrical) is highly desirable.

The system shall be able to accurately measure and control the temperate of the testing sample. The maximum testing sample temperature equal to, or greater than, 1200 oC is needed. The capability of testing at temperatures lower than the ambient temperature is a

plus.

The system shall be able to accurately measure and control the displacement/strain on the testing sample. The capability of remote strain measurement such as digital image correlation is highly desirable.

The system shall be able to provide the maximum load of 5 kN or above. It is highly desirable to have exchangeable load-cells with different maximum loads. The system shall have a digital control system to deliver custom deformation waveforms (e.g. static loading, creep, fatigue including TMF etc) as well as cooled (using liquid nitrogen/water) grips for temperature control (essential for samples subjected to high beam currents).

II.2.5) Award criteria

Quality criterion - Name: Compliance to the Specifications / Weighting: 40

Quality criterion - Name: After Sales and Technical back up / Weighting: 10

Quality criterion - Name: Delivery and Training / Weighting: 10

Quality criterion - Name: Sustainability and Environmental / Weighting: 5

Quality criterion - Name: Standard Supplier Questionnaire (SQ) / Weighting: 10

Price - Weighting: 25

II.2.11) Information about options

Options: No

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.2.1) Previous publication concerning this procedure

Notice number: 2022/S 000-006433

Section V. Award of contract

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

27 June 2022

V.2.2) Information about tenders

Number of tenders received: 2

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor

Cormet Oy

Vantaa

Country

Finland

NUTS code

- FI - Finland

The contractor is an SME

Yes

V.2.4) Information on value of contract/lot (excluding VAT)

Initial estimated total value of the contract/lot: 346,800 EUR

Total value of the contract/lot: 346,800 EUR

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

University of Birmingham

Birmingham

B15 2TT

Country

United Kingdom