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Tender

Brunel University London - Supply of Single Cylinder Research Engines for Zero Carbon Fuels

Brunel University London

F02: Contract notice

Notice identifier: 2022/S 000-033774

Procurement identifier (OCID): ocds-h6vhtk-038919

Published 29 November 2022, 1:03pm

Section I: Contracting authority

I.1) Name and addresses

Brunel University London

Kingston Lane

London

Email

Jennifer.Simpson@brunel.ac.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

www.brunel.ac.uk

I.3) Communication

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

<https://www.brunelesourcing.com>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.brunelesourcing.com>

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

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at

<https://www.brunelesourcing.com>

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

Brunel University London - Supply of Single Cylinder Research Engines for Zero Carbon Fuels

Reference number

BUL_287/CEDPS-001JS

II.1.2) Main CPV code

- 34311000 - Engines

II.1.3) Type of contract

Supplies

II.1.4) Short description

Brunel University London (BUL) is seeking suppliers to provide single-cylinder research engines that meet the requested specification.

The Requirement has been split into two Lots;

Lot 1- A single cylinder research engine for heavy good vehicles application

Lot 2 - A single cylinder research engine for marine application

Tenderers can bid for any of the two Lots or both.

II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

Lot 1- A single cylinder research engine for heavy good vehicles application

Lot 2 - A single cylinder research engine for marine application

Tenderers can bid for any of the two Lots or both.

II.2) Description

II.2.1) Title

Lot No

1 and 2

II.2.2) Additional CPV code(s)

- 34310000 - Engines and engine parts
- 34311000 - Engines
- 45350000 - Mechanical installations

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

Brunel University London UB8 3PH

II.2.4) Description of the procurement

Brunel University London is currently inviting tenders for the supply and delivery of two single-cylinder research engines to be used for the research and development of combustion and engine control technologies for zero carbon fuels.

The Requirement has been split into two Lots

Lot 1- A single cylinder research engine for heavy good vehicles application

Lot 2 - A single cylinder research engine for marine application

Tenderers can bid for any of the two Lots or both.

The Potential Supplier will be expected to provide (or be able to provide access to) pre-sales technical advice and support, and have a good understanding of the key features and aspects of the equipment they are selling to the University.

Proposals should be based on the following technical requirements;

Technical Specification

(1) Lot 1- A single cylinder research engine for heavy good vehicles application

The engine should meet below specifications

Number of cylinders [-] Single cylinder

Number of valves per cylinder [-] 4 (2 intake valves and 2 exhaust valves)

Number of strokes [-] 4

Range of cylinder bore [mm] 130 - 150

Range of cylinder stroke [mm] 150 - 180

Range of compression ratio [-] 12 - 16

Range of rated engine power [kW] > 60

Range of rated engine speed [rpm] > 1000

Range of peak engine torque [N·m] > 300

Range of peak cylinder pressure [bar] > 150

Fuel system hydrogen, ammonia

(2) Lot 2 - A single cylinder research engine for marine application

The engine should meet below specifications:

Number of cylinders [-] Single cylinder

Number of valves per cylinder [-] 4 (2 intake valves and 2 exhaust valves)

Number of strokes [-] 4

Range of cylinder bore [mm] 180 - 200

Range of cylinder stroke [mm] 200 - 230

Range of compression ratio [-] > 12

Range of rated engine power [kW] > 100

Range of rated engine speed [rpm] > 1000

Range of peak engine torque [N·m] > 800

Range of peak cylinder pressure [bar] > 150

Fuel system hydrogen, ammonia with pilot liquid fuel injection

The provided single-cylinder research engines should have ignition systems, fuel injection systems, coolant systems and lubricant oil systems so that they can be connected to external systems in test cells at Brunel engine lab.

Relevant services should be included;

Training

Technical Support

Delivery, Commissioning, Installation and Acceptance

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

Start date

1 June 2023

End date

31 May 2026

This contract is subject to renewal

Yes

Description of renewals

Option to extend for One (1) more year

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

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.1.8) 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

19 December 2022

Local time

12:00pm

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

IV.2.7) Conditions for opening of tenders

Date

24 January 2023

Local time

9:00am

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.2) Information about electronic workflows

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

VI.4) Procedures for review

VI.4.1) Review body

n/a

n/a

Country

United Kingdom