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Contract

Supply of Single Cylinder Research Engines for Zero Carbon Fuels

Brunel University London

F03: Contract award notice

Notice identifier: 2023/S 000-018230

Procurement identifier (OCID): ocds-h6vhtk-038919

Published 27 June 2023, 12:27pm

Section I: Contracting authority

I.1) Name and addresses

Brunel University London

Kingston Lane

London

UB8 3PH

Email

Jennifer.Simpson@brunel.ac.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

www.brunel.ac.uk

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

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 is currently inviting tenders for the supply and delivery of two singlecylinder

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.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: £233,831.96

II.2) Description

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

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technologies for zero carbon fuels. The Requirement has been split into two Lots; Lot 1- A single cylinder

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II.2.5) Award criteria

Quality criterion - Name: Price / Weighting: 40

Quality criterion - Name: Technical / Weighting: 60

Price - Weighting: 40

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 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: No

IV.2) Administrative information

IV.2.1) Previous publication concerning this procedure

Notice number: [2022/S 000-033774](#)

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

13 March 2023

V.2.2) Information about tenders

Number of tenders received: 3

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

V.2.3) Name and address of the contractor

Guangxi Yuchai Machinery Co. Ltd

No. 88 Tianqiao West Road Yulin, Guangxi China 537005

Guangxi

537005

Country

China

NUTS code

- CN - China

The contractor is an SME

No

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

Total value of the contract/lot: £233,831.96

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

N/A

N/A

Country

United Kingdom