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Tender

838 - e-Powertrain Test Cell Equipment Supply and Installation

Aston University

F02: Contract notice

Notice identifier: 2023/S 000-028967

Procurement identifier (OCID): ocds-h6vhtk-04071c

Published 2 October 2023, 1:19pm

Section I: Contracting authority

I.1) Name and addresses

Aston University

Aston Triangle

Birmingham

B4 7ET

Contact

Mr Jacob Rankine

Email

j.rankine@aston.ac.uk

Telephone

+44 1212043000

Country

United Kingdom

Region code

UKG31 - Birmingham

Internet address(es)

Main address

<http://www.aston.ac.uk>

Buyer's address

<http://www.aston.ac.uk>

I.3) Communication

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

<https://procontract.due-north.com/Advert/Index?advertId=dfdb082f-1a61-ee11-8124-005056b64545>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://procontract.due-north.com/Advert/Index?advertId=dfdb082f-1a61-ee11-8124-005056b64545>

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

838 - e-Powertrain Test Cell Equipment Supply and Installation

Reference number

DN692078

II.1.2) Main CPV code

- 34144900 - Electric vehicles

II.1.3) Type of contract

Supplies

II.1.4) Short description

The College of Engineering and Physical Sciences (EPS) at Aston University is seeking to acquire an e-motor test system for durability and functionality testing of electric motors for electric vehicles (EVs) following standard and no-standard test cycles.

This system will form part of their integral research programme looking at Sustainable Energy and Transport. To meet the requirements, the e-motor test system must meet the following criteria:

- Be able to test electric motors for EVs with rated power up to about 175 kW, rated torque 420 N.m, and rated speed 16,0000 rpm, with inertia equal or lower than 0.3 kg.m².
- Have the AC dynamometer mounted on a metal base plate for which air springs must be supplied to be adapted to the existing one or a full metal base plate with air springs provided.
- Include Turnkey control and data acquisition system conveniently integrated in table/rack/cabinet structure with dynamometer controller, computer, monitor, emergency stop button, power analyser and weather station plus user-friendly software able to reproduce standard/custom test schedules.
- Include dynamometer shaft cover for operator safety.
- Include calibration arms and weights.
- Include a battery emulator to simulate operation of various EV battery types.

- Include specimen adaptation and conditioning unit.

The full project specific requirements and equipment specification can be found within the project question set on Aston University's e-tendering portal ProContract under Section 11 – Project Specific Requirements.

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.2.2) Additional CPV code(s)

- 31110000 - Electric motors
- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

II.2.3) Place of performance

NUTS codes

- UKG31 - Birmingham

II.2.4) Description of the procurement

The College of Engineering and Physical Sciences (EPS) at Aston University is seeking to acquire an e-motor test system for durability and functionality testing of electric motors for electric vehicles (EVs) following standard and no-standard test cycles.

This system will form part of their integral research programme looking at Sustainable Energy and Transport. To meet the requirements, the e-motor test system must meet the following criteria:

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table/rack/cabinet structure with dynamometer controller, computer, monitor, emergency stop button, power analyser and weather station plus user-friendly software able to reproduce standard/custom test schedules.

- Include dynamometer shaft cover for operator safety.
- Include calibration arms and weights.
- Include a battery emulator to simulate operation of various EV battery types.
- Include specimen adaptation and conditioning unit.

The full project specific requirements and equipment specification can be found within the project question set on Aston University's e-tendering portal ProContract under Section 11 – Project Specific Requirements.

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

Duration in months

36

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: 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.2.2) Time limit for receipt of tenders or requests to participate

Date

2 November 2023

Local time

12:00pm

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.7) Conditions for opening of tenders

Date

2 November 2023

Local time

12:05pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

Aston University

Birmingham

Country

United Kingdom