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Planning

Cell Cycling Equipment for UKBIC Flexible Industrialisation Line (FIL)

UK Battery Industrialisation Centre

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-026453

Procurement identifier (OCID): ocids-h6vhtk-036a45

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Section I: Contracting authority

I.1) Name and addresses

UK Battery Industrialisation Centre

Rowley Road, Baginton

Coventry

CV8 3AL

Contact

Procurement

Email

ProcurementTenders@ukbic.co.uk

Telephone

+44 2475267743

Country

United Kingdom

Region code

UKG - West Midlands (England)

Internet address(es)

Main address

<https://www.ukbic.co.uk/>

Buyer's address

<https://www.ukbic.co.uk/>

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Research & Development

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Cell Cycling Equipment for UKBIC Flexible Industrialisation Line (FIL)

Reference number

DN631822

II.1.2) Main CPV code

- 42000000 - Industrial machinery

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKBIC has a requirement to purchase a range of equipment for manufacturing conformance testing of battery cells to establish a Flexible Industrialisation Line (FIL) at the UK Battery Industrialisation Centre.

The UK Battery Industrialisation Centre (UKBIC) is part of the UK Government's Faraday Battery Challenge. UKBIC is a national battery manufacturing development facility helping to scale-up battery manufacturing and facilitate upskilling in the battery sector. We are a publicly funded, open access facility, funded by the Faraday Battery Challenge at UK Research and Innovation (UKRI).

This PIN lists the general requirements for cell cycling equipment to be housed in a new self-contained (external) test facility as part of a Flexible Industrialisation Line (FIL) at UKBIC. This requirement will be split into three lots:

Lot 1 – Cell cycling equipment

Lot 2 – Temperature chambers

Lot 3 – Modular building

Suppliers will be able to bid for individual lots, however bids that offer combined solutions incorporating more than one aspect of this equipment are encouraged.

The ability to fabricate offsite and provide a turnkey solution for a complete self-contained test facility incorporating all aspects would be advantageous.

Bidders will also encouraged to put forward energy efficient solutions.

All equipment to provide UKCA conformity.

II.1.6) Information about lots

This contract is divided into lots: Yes

II.2) Description

II.2.1) Title

Cell Cycling Equipment

Lot No

1

II.2.2) Additional CPV code(s)

- 31000000 - Electrical machinery, apparatus, equipment and consumables; lighting
- 38970000 - Research, testing and scientific technical simulator

II.2.3) Place of performance

NUTS codes

- UKG3 - West Midlands

II.2.4) Description of the procurement

Lot 1 – Cell cycling equipment

Cell cycling equipment with an operating voltage range of -5V to +5V (or similar) is required. It is envisaged that a quantity of 96 to 192 test channels of 15A per channel capability will be required, along with 16 to 96 channels of 100A per channel capability.

The provision of cabling and test fixtures for connecting the cycling equipment to the 21700 cells (for the 15A channels) and 300mm x 100mm x 5-10mm pouch cells (for the 100A channels) would be an advantage. Test fixtures should enable the user to easily and safely connect and disconnect individual cells.

II.2) Description

II.2.1) Title

Temperature Chambers

Lot No

2

II.2.2) Additional CPV code(s)

- 38900000 - Miscellaneous evaluation or testing instruments
- 42000000 - Industrial machinery

II.2.3) Place of performance

NUTS codes

- UKG3 - West Midlands

II.2.4) Description of the procurement

Lot 2 – Temperature chambers

Temperature chambers are required to house all of the cells and test fixtures (see Lot 1) for long term cycle life testing. The temperature range of the chambers should be -20°C to +80°C and the chambers should be rated to EUCAR 5 or 6 (to be confirmed).

II.2) Description

II.2.1) Title

Modular Building

Lot No

3

II.2.2) Additional CPV code(s)

- 44211100 - Modular and portable buildings

II.2.3) Place of performance

NUTS codes

- UKG3 - West Midlands

II.2.4) Description of the procurement

Lot 3 – Modular building

A containerised solution or modular building to house the equipment in Lots 1 and 2 and providing controlled environments for an operator control room, an equipment room and the main testing area is required. This building will be located outside and appropriate fire, safety and security management systems should be incorporated.

II.3) Estimated date of publication of contract notice

16 January 2023

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

We welcome the following information from any interested suppliers:

- Timings
- Layout / footprint (operational and equipment)
- Brochures
- Specification sheets
- Unique selling points compared to competition
- Technical and service support in the UK
- Typical Services required for: Power (Load - XX kw)/ Chilled water (Load - XX kW) / Compressed air (Min/Max Pressure - XX bar)/ Special Gas requirements/ Compressed air (Min/Max Pressure - XX bar)/ Equipment heat load (Thermal power released - XX W)/ Waste-water and -air