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Planning

Calender Equipment for UKBIC Flexible Industrialisation Line

UK Battery Industrialisation Centre

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-025673

Procurement identifier (OCID): ocds-h6vhtk-036817

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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

UKG3 - West Midlands

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

Calender Equipment for UKBIC Flexible Industrialisation Line

II.1.2) Main CPV code

- 42930000 - Centrifuges, calendering or vending machines

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKBIC has a requirement to purchase a range of equipment relating to the manufacture of battery electrodes 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 anode and cathode calender equipment to be housed in a clean and dry room for a battery electrode Flexible Industrialisation Line (FIL) at UKBIC.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKG - West Midlands (England)

II.2.4) Description of the procurement

Vendors will invited to submit a bid to provide a flexible calendering system to fit into a clean and dry room. This system would need to be representative and scale-able to a larger system

The calendering process of the anode and cathode materials to calendering the coated foil is uncoiled, compressed by one or more roller pairs, and then rewound.

- Machines in the range of 320mm to 640mm foil width will be considered
- Machines of maximum calendering pressure of ranges from 1400N/mm full width to 2750 N/mm full width will be considered
- The machine will have the ability to heat the rolls
- Solutions to heat the web/foil pre- and post calendering
- The calender machine will be installed in a dry and clean room down -70°C dewpoint
- This system would need to be representative and scale-able to a larger system.

One calendering machine must be procured – if budget allows, a second calendering machine may be procured to separate anode and cathode calendering process to avoid cross-contamination. The tenderer is encouraged to provide a quotation to suggest what savings could be made if a second calender was ordered at the same time as the first.

The equipment must offer a modular solution, so equipment can be easily reconfigured or decommissioned in the future.

Bidders are encouraged to offer any next generation calendering processes upgrades or techniques as applicable to electrode manufacture.

All equipment to provide UKCA conformity.

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