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Planning

Slitter Equipment for UKBIC Flexible Industrialisation Line (FIL)

UK Battery Industrialisation Centre

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-025175

Procurement identifier (OCID): ocids-h6vhtk-0366c5

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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

Slitter Equipment for UKBIC Flexible Industrialisation Line (FIL)

Reference number

DN631365

II.1.2) Main CPV code

- 31000000 - Electrical machinery, apparatus, equipment and consumables; lighting

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 slitting 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

- UKG3 - West Midlands

II.2.4) Description of the procurement

Vendors are invited to submit a bid to provide a flexible Slitting system to fit into a clean and dryroom. This system would need to be representative and scale-able to a larger system

- Slitting machine needs to be capable of slitting all common li-ion electrode thicknesses.
- Machines in the range of 320mm to 640mm foil width will be considered. Minimum slit width down to 50mm.
- Trim edges down to 10mm, with collection of trim for disposal. Maximum of 8 slit widths.
- The slitting width accuracy must be better than +/- 0.2 mm.
- The slitter must collect the dust parts from slitting the coated foil.
- The slitter will be operated in a clean and dry environment. Equipment to be capable of operating in a -70°C dewpoint environment.
- Please provide previous experience history of slitting li-ion or other electrodes.

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

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

Bidders are encouraged to offer alternate slitting systems applicable to battery electrodes e.g laser slitting.

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

- Budget Costing – Cost estimation for similar systems
- Indicative operational costs
- Timing
- 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