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Contract

Eden Campus - Equipment for AMCF at Eden Campus

University of St Andrews

F03: Contract award notice

Notice identifier: 2021/S 000-001106

Procurement identifier (OCID): ocds-h6vhtk-028ba8

Published 19 January 2021, 4:48pm

Section I: Contracting authority

I.1) Name and addresses

University of St Andrews

The Old Burgh School, Abbey Walk

St Andrews

KY16 9LB

Contact

Adrian Wood

Email

procurement@st-andrews.ac.uk

Telephone

+44 1334462523

Country

United Kingdom

NUTS code

UKM72 - Clackmannanshire and Fife

Internet address(es)

Main address

<http://www.st-andrews.ac.uk/staff/money/procurement/>

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00111

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

Eden Campus - Equipment for AMCF at Eden Campus

Reference number

CHM/08720A/JI/SL

II.1.2) Main CPV code

- 38400000 - Instruments for checking physical characteristics

II.1.3) Type of contract

Supplies

II.1.4) Short description

Equipment for AMCF Facility at Eden Campus, University of St Andrews. Requirement comprising of the following Lots:

Lot 1 - Battery Electrode Coater

Lot 2 - Slurry Processing Equipment

Lot 3 - Pouch Cell Production

Lot 4 - Battery Cycling and Formation

II.1.6) Information about lots

This contract is divided into lots: Yes

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: £458,498

II.2) Description

II.2.1) Title

Slurry Processing Equipment

Lot No

2

II.2.2) Additional CPV code(s)

- 43410000 - Mineral-processing machinery

II.2.3) Place of performance

NUTS codes

- UKM72 - Clackmannanshire and Fife

Main site or place of performance

UK - St Andrews

II.2.4) Description of the procurement

Slurry Processing Equipment

We wish to acquire several pieces of equipment required for the processing of battery electrodes.

Required components:

- Mixers
- Calender
- Vacuum Ovens

A small and large volume mixer would be desirable, where one mixer should handle up to 1 L of slurry, and another up to 20 L of slurry. These should both be capable of 3-in-1 operation, with high torque, high dispersion, and scraper heads available for use. The high torque and high dispersion heads of the mixer must be of high quality, and their placement in the mixer must not allow them to touch the walls of the container.

It is also essential that the mixer have a cooling jacket and temperature control function. The

mixer must also have the capability to mix under both inert atmosphere and under vacuum. Furthermore, the mixer must have timer control to facilitate out-of-hours operation.

The calendar should be reel-to-reel, capable of processing electrode-coated foils with widths up to 350 mm. It should be able to operate at a variety of different pressures, and at different thicknesses and be capable of operation at temperature (RT to 120 °C). In-line thickness measurement would also be a significant benefit.

All equipment must pass through access door with dimensions of 2 m x 2 m.

II.2.5) Award criteria

Quality criterion - Name: Quality / 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

II.2.14) Additional information

All tenders for the University of St Andrews are administered through our eTendering System (InTend). To Express an Interest please go to our tender website at <https://intendhost.co.uk/universityofstandrews>

Please note that 'Notes of Interest' placed via PCS (Public Contracts Scotland) are not automatically accepted.

II.2) Description

II.2.1) Title

Pouch Cell Production

Lot No

II.2.2) Additional CPV code(s)

- 31400000 - Accumulators, primary cells and primary batteries

II.2.3) Place of performance

NUTS codes

- UKM72 - Clackmannanshire and Fife

Main site or place of performance

UK - St Andrews

II.2.4) Description of the procurement

Pouch Cell Production

Ideally, a semi-autonomous system is requested, however costings for a manual setup (i.e. manual pouch forming, filling, sealing etc.) will also be considered.

The design of these cells will use an opposite-ended tab design, rather than the traditional single-ended tab design. We anticipate constructing cells in a semi-autonomous fashion, with produced pouch cells with stack sizes of up to 50 layers, depending upon the electrode size and customer requirements. An output starting at around 20 per day is desirable, but the capability to push this production up as necessary is also highly desired.

Required components:

- Electrode cutter
- Z-fold stacker
- Tab welding equipment
- Pouch former
- Electrolyte filling, degassing, and sealing

A versatile group of instruments, which could be adjusted (with expected additional costs, such as electrode cutting heads) to produce pouch cells of 150 mm x 100 mm and 300 x 100 mm would be advantageous, and any such capability should be made clear in bids.

II.2.5) Award criteria

Quality criterion - Name: Quality / 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

II.2.14) Additional information

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II.2) Description

II.2.1) Title

Battery Cycling and Formation

Lot No

4

II.2.2) Additional CPV code(s)

- 31682300 - Medium-voltage equipment

II.2.3) Place of performance

NUTS codes

- UKM72 - Clackmannanshire and Fife

Main site or place of performance

UK - St Andrews

II.2.4) Description of the procurement

Battery Cycling and Formation

We desire an instrument capable of forming and ageing lithium and sodium-ion batteries. Cells will be in the range 0.1 to 15 Ah. The instrument should have at least 60 channels, which are capable of formation cycling, rate studies, and cycle life ageing. The ability to perform hybrid-pulse power would be an advantage. A current range 4 mA to 15 A is essential (to 30A is desirable), with the ability to combine channels to increase current range, and a voltage window of 0 V to 5 V is preferable.

The cycling and formation equipment also require an environmental test chamber, which can support at least 5 fully constructed pouch cells of up to 300 x 100 mm size. The environment should have a programmable temperature range from -20 to 60 °C, with a tolerance of ± 1 °C. The chamber should conform to EUCAR Hazard Standard of ≤ 4 .

II.2.5) Award criteria

Quality criterion - Name: Quality / 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

II.2.14) Additional information

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II.2) Description

II.2.1) Title

Battery Electrode Coater

Lot No

1

II.2.2) Additional CPV code(s)

- 31711140 - Electrodes

II.2.3) Place of performance

NUTS codes

- UKM72 - Clackmannanshire and Fife

Main site or place of performance

UK - St Andrews

II.2.4) Description of the procurement

We require a roll-to-roll coating system, capable of producing single or double-sided coated foil electrodes with a high degree of control.

The primary purposes of this instrument are:

- Electrode coating for lithium and sodium-ion battery anodes and cathodes

Required components:

- Roll-to-roll coating system.
- Drying oven of at least 3 m length.
- Coating and foil widths suitable for the manufacture of 300 mm and or 150mm cell widths, with suitable edge guides.
- Intermittent coating capability.

- Multiple coating head solutions (slot die, comma bar).
- Flexible tension control for applying tension on different substrates (Al/Cu foils of different thicknesses).
- Web speed of up to 5 m min⁻¹.

A coater with excellent control and versatility is crucial in making precision battery electrodes. We require a system that facilitates the change between coating different electrode chemistries, and between cathodes and anode slurries. The coater should be easy to clean and maintain.

II.2.5) Award criteria

Quality criterion - Name: Quality / 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

II.2.14) Additional information

All tenders for the University of St Andrews are administered through our eTendering System (InTend). To Express an Interest please go to our tender website at <https://intendhost.co.uk/universityofstandrews>

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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: [2020/S 133-328060](#)

Section V. Award of contract

Lot No

1

Title

Battery Electrode Coater

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

7 December 2020

V.2.2) Information about tenders

Number of tenders received: 5

Number of tenders received from SMEs: 5

Number of tenders received from tenderers from other EU Member States: 1

Number of tenders received from tenderers from non-EU Member States: 4

Number of tenders received by electronic means: 5

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

V.2.3) Name and address of the contractor

SHANDONG GELON LIB CO LTD

No.1606 Golden Plaza,YiMeng Road, Lanshan District , LinYi City,ShanDong 276000,P.R.
China

Linyi

276000

Telephone

+44 8615053960895

Country

Kosovo

NUTS code

- 00 - Other NUTS code

The contractor is an SME

No

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

Total value of the contract/lot: £458,498

Section V. Award of contract

Lot No

2

Title

Slurry Processing Equipment

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

7 December 2020

V.2.2) Information about tenders

Number of tenders received: 5

Number of tenders received from SMEs: 5

Number of tenders received from tenderers from other EU Member States: 1

Number of tenders received from tenderers from non-EU Member States: 4

Number of tenders received by electronic means: 5

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

V.2.3) Name and address of the contractor

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China

Linyi

276000

Telephone

+44 8615053960895

Country

Kosovo

NUTS code

- 00 - Other NUTS code

The contractor is an SME

Yes

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

Total value of the contract/lot: £458,498

Section V. Award of contract

Lot No

3

Title

Pouch Cell Production

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

7 December 2020

V.2.2) Information about tenders

Number of tenders received: 5

Number of tenders received from SMEs: 5

Number of tenders received from tenderers from other EU Member States: 1

Number of tenders received from tenderers from non-EU Member States: 4

Number of tenders received by electronic means: 5

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

V.2.3) Name and address of the contractor

SHANDONG GELON LIB CO LTD

No.1606 Golden Plaza,YiMeng Road, Lanshan District , LinYi City,ShanDong 276000,P.R.
China

Linyi

276000

Telephone

+44 8615053960895

Country

Kosovo

NUTS code

- 00 - Other NUTS code

The contractor is an SME

Yes

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

Total value of the contract/lot: £458,498

Section V. Award of contract

Lot No

4

Title

Battery Cycling and Formation

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

7 December 2020

V.2.2) Information about tenders

Number of tenders received: 5

Number of tenders received from SMEs: 5

Number of tenders received from tenderers from other EU Member States: 1

Number of tenders received from tenderers from non-EU Member States: 4

Number of tenders received by electronic means: 5

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

V.2.3) Name and address of the contractor

SHANDONG GELON LIB CO LTD

No.1606 Golden Plaza,YiMeng Road, Lanshan District , LinYi City,ShanDong 276000,P.R.
China

Linyi

276000

Telephone

+44 8615053960895

Country

Kosovo

NUTS code

- 00 - Other NUTS code

The contractor is an SME

Yes

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

Total value of the contract/lot: £458,498

Section VI. Complementary information

VI.3) Additional information

All tenders for the University of St Andrews are administered through our eTendering System (InTend). To Express an Interest please go to our tender website at

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(SC Ref:639948)

VI.4) Procedures for review

VI.4.1) Review body

Dundee Sheriff Court

6 West Bell Street

Dundee

DD1 9AD

Telephone

+44 1382229961

Country

United Kingdom

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

Anyone bringing court proceedings against the University of St Andrews must inform the University of St Andrews in advance of the alleged breach and its intention to bring proceedings. Any such action must be brought within 15 days of the date on which a decision is sent to them or published to challenge that decision.

Proceedings seeking an ineffectiveness order must be brought within 30 days of the publication of the contract award notice in the OJEU, or 30 days from the date of a decision letter to all tenderers concerned, and any candidates concerned, containing a summary of the reason for the recipient being unsuccessful, otherwise 6 months from the date of entering into the contract or concluding the framework agreement.

Where a contract has not been entered into the Court may, by interim order, suspend the procurement procedure. The court may also set aside a decision or actions taken by the University or order it to amend and document; and/or award damages. However, by express requirement the court may decide not to grant an interim order when the negative consequences of such an order are likely to outweigh the benefits, having regard to a number of considerations.

If the contract has been entered into the Court may, depending on the nature of the breach: make an ineffectiveness order; impose a financial penalty; shorten the duration of the contract; make any other order considered appropriate to address the consequences of ineffectiveness or shortening the duration of the contract; award damages.