Tender

# Supply and Installation of a Large Scale Powder Processing Unit for the Processing of Hydrognated NdFeB Powder

University of Birmingham

F02: Contract notice
Notice identifier: 2021/S 000-017543
Procurement identifier (OCID): ocds-h6vhtk-02cbf5
Published 23 July 2021, 4:34pm

The closing date and time has been changed to:

**24 August 2021, 12:00pm**

See the change notice.

## Section I: Contracting authority

### I.1) Name and addresses

University of Birmingham

Edgbaston

Birmingham

B15 2TT

**Contact**

Susanna Ting

**Email**

S.Y.Ting@bham.ac.uk

**Country**

United Kingdom

**NUTS code**

UKG31 - Birmingham

**Internet address(es)**

Main address

https://www.birmingham.ac.uk

## I.3) Communication

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

https://in-tendhost.co.uk/universityofbirmingham/aspx/Home

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted to the above-mentioned address

## 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

Supply and Installation of a Large Scale Powder Processing Unit for the Processing of Hydrognated NdFeB Powder

Reference number

SC9356/21

### II.1.2) Main CPV code

- 44615000 - Pressure vessels

### II.1.3) Type of contract

Supplies

### II.1.4) Short description

This project is funded by the UK Research and Innovation (UKRI) Industrial Strategy Challenge Fund; Driving the Electric Revolution under grant agreement 1524086.The University of Birmingham invites tenders for supply of a powder processing unit for the processing of hydrogenated NdFeB powder. This proposed unit will be the largest of its kind in the UK and will consist of a physical separation unit to remove impurities from the hydrogenated powder, a jet mill to reduce the particle size, powder blending, storage and automatic powder transfer between the units. The hydrogenated NdFeB powder that needs to be processed by this unit will be supplied by hydrogen decrepitation of different forms of scrap.

### II.1.5) Estimated total value

Value excluding VAT: £990,000

### II.1.6) Information about lots

This contract is divided into lots: No

## II.2) Description

### II.2.3) Place of performance

NUTS codes

- UKG31 - Birmingham

**II.2.4) Description of the procurement**

This project is funded by the UK Research and Innovation (UKRI) Industrial Strategy Challenge Fund; Driving the Electric Revolution under grant agreement 1524086.The University of Birmingham invites tenders for supply of a powder processing unit for the processing of hydrogenated NdFeB powder. This proposed unit will be the largest of its kind in the UK and will consist of a physical separation unit to remove impurities from the hydrogenated powder, a jet mill to reduce the particle size, powder blending, storage and automatic powder transfer between the units. The hydrogenated NdFeB powder that needs to be processed by this unit will be supplied by hydrogen decrepitation of different forms of scrap.The production of the hydrogenated powder, which will be processed using the equipment described in this tender, is based on a patented technology developed at the University of Birmingham, in which hydrogen is used to extract Nd-Fe-B magnet powder from end of life permanent magnet containing products. This process will produce a powder no greater than 4mm in size which will be processed on the equipment described in this tender. The powder from the HPMS process should be purified mechanically (e.g. sieving) in a nitrogen atmosphere to remove coatings, screws, plastic etc. The processing unit should then have the ability to transfer powder through other processing stages including jet milling and blending. The Jet Mill stage should have the ability to achieve a particle size distribution of 3 to 5 microns and should be able to remove particles below 1 micron. Note, due to the space requirements of the system, the proposed jet mill will be installed at Tyseley Energy Park in Birmingham.The overall budget for the complete unit is up to £990,000.00 excluding VAT.This project may be funded by the European Regional Development Fund (ERDF) or;- European Structural and Investment Fund (ESIF) or;- Research Councils UK (RCUK), the strategic partnership of the UK's seven Research Councils.

**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**

End date

1 May 2022

This contract is subject to renewal

No

**II.2.10) Information about variants**

Variants will be accepted: Yes

**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: Yes

## IV.2) Administrative information

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

Originally published as:

Date

18 August 2021

Local time

12:00pm

Changed to:

Date

24 August 2021

Local time

12:00pm

See the change notice.

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

English

**IV.2.7) Conditions for opening of tenders**

Date

18 August 2021

Local time

12:30pm

## 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**

University of Birmingham

Edgbaston

Birmingham

B15 2TT

Country

United Kingdom