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Not applicable

# Hydrogen generation system for semiconductor manufacture

UNIVERSITY OF SHEFFIELD

F14: Notice for changes or additional information

Notice identifier: 2021/S 000-020578

Procurement identifier (OCID): ocds-h6vhtk-02d7bb

Published 23 August 2021, 10:12am

# Section I: Contracting authority/entity

## I.1) Name and addresses

UNIVERSITY OF SHEFFIELD

Western Bank

**SHEFFIELD** 

S102TN

Contact

David Middle

**Email** 

dave.middle@sheffield.ac.uk

**Telephone** 

+44 1142221560

Country

United Kingdom

**NUTS** code

UKE32 - Sheffield

Internet address(es)

Main address

https://www.sheffield.ac.uk

Buyer's address

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

# **Section II: Object**

### II.1) Scope of the procurement

#### II.1.1) Title

Hydrogen generation system for semiconductor manufacture

Reference number

3060/PIN/DM

#### II.1.2) Main CPV code

• 39340000 - Gas network equipment

#### II.1.3) Type of contract

**Supplies** 

#### II.1.4) Short description

The National Epitaxy Facility (NEF) at the University of Sheffield is a nationally important supplier of semiconductor materials for research and development in Universities and industry across the UK. A reliable supply of high purity hydrogen is key to the work of the NEF and our other research groups in semiconductor production. Our existing PEM-based hydrogen generation system is approaching end of life and a replacement system is required. Our hydrogen supply operates at 30 bar and a peak mass flow rate of approximately 25kg per day, with an average daily consumption of 12kg per day. Our hydrogen system feeds purifiers that ideally require 99.999% purity to minimise maintenance costs and ensure high purity feed to our reactors. We are looking for a replacement hydrogen generator that can meet our existing demand in the existing footprint, with a reliable, sustainable and cost effective technology. Reliability of supply is a key factor, and hence an exemplary after sales service is a must.

# **Section VI. Complementary information**

## VI.6) Original notice reference

Notice number: 2021/S 000-020556

# **Section VII. Changes**

## VII.1) Information to be changed or added

VII.1.2) Text to be corrected in the original notice

Section number

11.2.4

Read

Text

Added information\*

## VII.2) Other additional information

\*Extra criteria that is required for this solution:

30 bar supply pressure.

Current theoretical maximum consumption: 22.5kg of Hydrogen per day (189slpm).

Average measured consumption: 12kg of Hydrogen per day (100slpm).