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Tender

Gaseous Hydrogen Pressure Reduction Station

Health and Safety Executive

UK4: Tender notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2026/S 000-012868

Procurement identifier (OCID): ocds-h6vhtk-064efc

Published 12 February 2026, 12:48pm

Scope

Reference

T4880

Description

HSE require a gaseous hydrogen pressure reduction station for use during a research test programme. The PRS will be connected to a bulk hydrogen supply up to 500 barg.

The PRS should be able to control a flow of gaseous hydrogen at a set flow rate within the range 20 - 400 g/s. The system should respond to a setpoint which is determined from an analogue signal sent to the pressure regulator.

If a dome regulator is used, HSE will provide and install a nitrogen supply to the regulator.

The PRS will be connected to a vent stack and pressure relief system, which will be provided and installed by HSE before the system is used for experiments.

The PRS should be instrumented with pressure and temperature upstream and

downstream of the regulation, and a mass flow meter.

These sensors should have analogue outputs (ideally 4-20 mA signals) suitable for connection to a separate data logging system. Please give details of the accuracy and calibration of instrumentation. Instrumentation should be ATEX rated and suitable for hydrogen.

Inlet: Hydrogen @ up to 500 barg, -10 to 25 °C

Outlet: Hydrogen @ up to 100 barg, up to 400 g/s

Pipework: 1" ID stainless 316L steel, 1 connection suitable for 500 barg to tube trailer, 1" Class 900 flange on the downstream connection. Upstream of the regulator, the system should have a maximum allowable working pressure of at least 700 barg.

Downstream of the regulator, the system should have a maximum allowable working pressure of 150 barg and a bursting disc set for this pressure. The PRS should also include an upstream isolation valve with a maximum allowable working pressure of at least 700 barg. This valve should be pneumatically actuated and include an ex-d position indication.

Instrumentation: Pressure and temperature upstream and downstream of the regulator, mass flow meter after the regulator. Instrumentation should be ATEX rated, suitable for hydrogen. 4-20 mA output preferred. Please give details of the accuracy of instrumentation.

Skid: The pressure reduction system should be mounted on a skid with ports suitable for transport with a forklift. The skid must have attachment points for bolting to ground and points for earthing the system.

A Q&A drop in session regarding this tender will be held on 18/02/2026 at 13:00 GMT
Please respond VIA In-Tend for invitation details

The equipment is required for use at the HSE Buxton (SK17 9JN) test site

Total value (estimated)

- £35,000 excluding VAT
- £42,000 including VAT

Below the relevant threshold

Contract dates (estimated)

- 1 September 2026 to 1 September 2026
- 1 day

Main procurement category

Goods

CPV classifications

- 38800000 - Industrial process control equipment and remote-control equipment

Contract locations

- UK - United Kingdom

Submission

Enquiry deadline

6 March 2026, 1:00pm

Tender submission deadline

13 March 2026, 1:00pm

Submission address and any special instructions

All tender documents are available via the HSE In-Tend supplier e-procurement portal. All responses and requests for clarification must be submitted via the portal. Registration is free of charge and can be completed via the following link:

<https://in-tendhost.co.uk/hse>

Tenders may be submitted electronically

Yes

Award criteria

The successful supplier(s) will be selected based on ability to deliver the components required, fully meeting the specifications (or proposing other suitable solutions) and at best the price.

Procedure

Procedure type

Below threshold - open competition

Contracting authority

Health and Safety Executive

- Public Procurement Organisation Number: PBXM-4389-TXVZ

Redgrave Court, Merton Road, Bootle, Merseyside

Liverpool

L20 7HS

United Kingdom

Email: tenders@hse.gov.uk

Region: UKD73 - Sefton

Organisation type: Public authority - central government