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Planning

Cryogenic Facility Requirements V0.1b

Health & Safety Executive

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-027254

Procurement identifier (OCID): ocids-h6vhtk-04940b

Published 27 August 2024, 11:41am

Section I: Contracting authority

I.1) Name and addresses

Health & Safety Executive

Redgrave Court, Merton Road, Bootle

Liverpool

L20 7HS

Email

tenders@hse.gov.uk

Country

United Kingdom

Region code

UKD73 - Sefton

Justification for not providing organisation identifier

Not on any register

Internet address(es)

Main address

www.hse.gov.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

Health

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Cryogenic Facility Requirements V0.1b

II.1.2) Main CPV code

- 24100000 - Gases

II.1.3) Type of contract

Supplies

II.1.4) Short description

HSE requires the design, supply and installation of a cryogenic hydrogen and nitrogen distribution facility as part of the provision of a national cryogenic hydrogen test centre.

II.1.5) Estimated total value

Value excluding VAT: £15,000,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 24100000 - Gases

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

HSE Buxton (SK17 9JN)

II.2.4) Description of the procurement

HSE requires the design, supply and installation of a cryogenic hydrogen and nitrogen distribution facility as part of the provision of a national cryogenic hydrogen test centre.

This PIN is for Phase 1 of a development to provide a multi-functional facility with multiple tests areas fed from common supplies of gaseous nitrogen (GN), liquid nitrogen (LN), gaseous hydrogen (GH₂), liquid hydrogen (LH₂) and gaseous air. The primary test area (Phase 1) would be semi covered by a portal frame structure with leak and fire detection built in. Power, water, and data service would also be provided to these test areas.

It is HSE's intention that the chosen 'gas supplier' provides a 'turnkey' solution for the gas supply system and will provide ongoing supplies of gases/liquids. This is primarily to ensure that any infrastructure, which is procured and built, is capable of being reliably supplied and filled with LH₂/LN, and to utilise the expertise of such companies to ensure that the infrastructure installed is appropriate and capable of meeting the flow, pressure and temperature requirements. Turnkey in this instance means a full design, installation, gas supply and maintenance service. Below is a summarised list of the key elements being requested:

- 2.5 tonne LH₂ tank (ideally horizontal).
- 10 tonne LN tank (ideally horizontal).
- Vaporisers for both LH₂ and LN to supply the same gaseous equivalent flow rates as for LH₂ and LN.
- LH₂ and LN supply costs.
- Design expertise to achieve the flow rates, pressures and temperatures required - P&ID, drawings etc.
- Means of controlling the pressure within the tanks to maintain a fixed outlet flow rate for 30 minutes at 0.5 kg/s LH₂ and 2.5 kg/s LN.
- Vent stacks, both for the tanks and the test areas.
- Pipework and valves, SIVL lines for liquid (~40 m), gaseous pipework of similar length for GN₂ and GH₂, liquid filters.
- Monitoring instrumentation (pressure, temperature and flow).
- Control and safety system for the supplied equipment including E-stops; and
- Purge system and gas costs.

- Ongoing service, calibration and maintenance of the installation for the duration of the contract.

II.2.14) Additional information

A joint Teams Q&A meeting is arranged for the 29th August at 11 am where the HSE will explain the PIN content and potential suppliers can ask questions if they wish. Join the meeting using the link below:

Join the meeting now

Meeting ID: 362 339 991 237

Passcode: iFSwJe

Dial in by phone

+44 20 3321 5257,,510222642# United Kingdom, City of London

Find a local number

Phone conference ID: 510 222 642#

For organizers: Meeting options | Reset dial-in PIN

It is recommended that potential suppliers do visit the proposed site location, this can be arranged on the 5th or 6th of September. Technical and commercial staff can be on hand to guide any visit and answer questions at the time. Instructions for arranging a site visit will be provided in the Q&A meeting.

II.3) Estimated date of publication of contract notice

30 April 2025

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: No

Section VI. Complementary information

VI.3) Additional information

On closing of this PIN, HSE will be feeding back to the funders (early Oct), after which if successful, a tender process will commence in first quarter 2025.

Further information can be obtained from tenders@hse.gov.uk.