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Award

Procurement of Liquid Hydrogen

Health & Safety Executive

F15: Voluntary ex ante transparency notice

Notice identifier: 2023/S 000-007950

Procurement identifier (OCID): ocds-h6vhtk-0369fb

Published 20 March 2023, 10:18am

Section I: Contracting authority/entity

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.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

Procurement of Liquid Hydrogen

II.1.2) Main CPV code

- 24111600 - Hydrogen

II.1.3) Type of contract

Supplies

II.1.4) Short description

HSE is seeking to procure several deliveries of liquid hydrogen in the autumn of 2023. A quantity of approximately 2.5 tonnes would be required for each delivery.

HSE does not have any existing storage facility for LH2 and has previously relied on the rental of the supply trailer units. HSE are looking for a similar arrangement, aiming to retain the supply for a period of two weeks after each delivery to connect to HSE's equipment.

A handover/training session should be provided upon delivery. Information on the outlet and vent connections would also be beneficial.

The deliveries would ideally be as follows:

Date Type Quantity Period*

Aug 23 Delivery Full tanker/ISO 2 weeks

Sep 23 Delivery Full tanker/ISO 2 weeks

Oct 23 Delivery Full tanker/ISO 2 weeks

Nov 23 Delivery Full tanker/ISO 2 weeks

Apr 24 Delivery Full tanker/ISO 2 weeks

Jun 24 Delivery Full tanker/ISO 2 weeks

Aug 24 Delivery Full tanker/ISO 2 weeks

Oct 24 Option Full tanker/ISO 2 weeks

* Not including delivery or collection.

HSE S&RC has hand on experience of handling LH2 trailers from two previous research campaigns. Details of previous work and the overarching reason for this requirement is listed below. Following expressions of interest, further information regarding the projects, the end customers and the nature of the experiments can be shared.

In general terms these tests are a key part of the aviation sectors decarbonisation strategy and this research is being performing for a global leader in this area. We are interested in a permanent facility in the near future, however, securing funding for such a thing requires grant funding for organisations such as ourselves. We have a successful recent history of receiving LH2 deliveries from BOC and Air Liquide who have supported pre-normative work, which is being used to understand the hazards/phenomena and inform best practice. See the links provided:

https://hysafe.info/wp-content/uploads/sites/3/2021/04/D39_2021-01-PRESLHY_ChapterLH2-v3.pdf, RR986 - Releases of unignited liquid hydrogen ([hse.gov.uk](https://www.hse.gov.uk)), RR987 - Ignited releases of liquid hydrogen ([hse.gov.uk](https://www.hse.gov.uk)), Home - Prenormative Research for Safe Use of Liquid Hydrogen (preslhy.eu).

II.1.6) Information about lots

This contract is divided into lots: No

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

Value excluding VAT: £267,370

II.2) Description**II.2.3) Place of performance**

NUTS codes

- UKF - East Midlands (England)

Main site or place of performance

HSE, Harpur Hill, Buxton

II.2.4) Description of the procurement

HSE is seeking to procure several deliveries of liquid hydrogen in the autumn of 2023. A quantity of approximately 2.5 tonnes would be required for each delivery.

HSE does not have any existing storage facility for LH2 and has previously relied on the rental of the supply trailer units. HSE are looking for a similar arrangement, aiming to retain the supply for a period of two weeks after each delivery to connect to HSE's equipment.

A handover/training session should be provided upon delivery. Information on the outlet and vent connections would also be beneficial.

The deliveries would ideally be as follows:

Date Type Quantity Period*

Aug 23 Delivery Full tanker/ISO 2 weeks

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In general terms these tests are a key part of the aviation sectors decarbonisation strategy and this research is being performing for a global leader in this area. We are interested in a permanent facility in the near future, however, securing funding for such a thing requires grant funding for organisations such as ourselves. We have a successful recent history of receiving LH2 deliveries from BOC and Air Liquide who have supported pre-normative work, which is being used to understand the hazards/phenomena and inform best practice. See the links provided:

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II.2.5) Award criteria

Price

II.2.11) Information about options

Options: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Award of a contract without prior publication of a call for competition in the cases listed below

- The procurement falls outside the scope of application of the regulations

Explanation:

HSE had previously sought to procure several deliveries of liquid hydrogen via a Prior Information Notice. The Liquid Hydrogen was needed for the autumn of 2023. A quantity of approximately 2.5 tonnes would be required for each delivery.

HSE does not have any existing storage facility for LH2 and has previously relied on the rental of the supply trailer units. HSE was looking for a similar arrangement, aiming to retain the supply for a period of two weeks after each delivery to connect to HSE's equipment.

A handover/training session would be needed upon delivery. Information on the outlet and vent connections would also be needed.

HSE received a number of options but consider Air Liquide to be the most economically advantageous option. Air Liquide could meet our needs as outlined within the PIN and was the most cost effective option.

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: [2022/S 000-026357](#)

Section V. Award of contract/concession

Contract No

HSE/T4292

Title

Procurement of Liquid Hydrogen

A contract/lot is awarded: Yes

V.2) Award of contract/concession

V.2.1) Date of conclusion of the contract

17 March 2023

V.2.2) Information about tenders

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

V.2.3) Name and address of the contractor/concessionaire

AIR LIQUIDE

France

Country

France

NUTS code

- FR - France

Companies House

00232592

The contractor/concessionaire is an SME

No

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

Initial estimated total value of the contract/lot/concession: £267,370

Total value of the contract/lot/concession: £267,370

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

Tommy Johnson

Redgrave Court, Merton Road

Bootle, Liverpool

L20 7HS

Email

tenders@hse.gov.uk

Country

United Kingdom