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Not applicable

Procurement of Liquid Hydrogen - Prior Information Notice

Health & Safety Executive

F14: Notice for changes or additional information

Notice identifier: 2023/S 000-002525

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

Published 27 January 2023, 10:34am

Section I: Contracting authority/entity

I.1) Name and addresses

Health & Safety Executive

Redgrave Court, Merton Road

BOOTLE

L207HS

Contact

Richard Goff

Email

tenders@hse.gov.uk

Country

United Kingdom

Region code

UKD72 - Liverpool

Justification for not providing organisation identifier

Not on any register

Internet address(es)

Main address

www.hse.gov.uk

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Procurement of Liquid Hydrogen - Prior Information Notice

Reference number

HSE/T4292

II.1.2) Main CPV code

- 24111600 - Hydrogen

II.1.3) Type of contract

Supplies

II.1.4) Short description

HSE would like to procure three deliveries of liquid hydrogen in late summer and autumn of 2023. A quantity of 2.5 tonnes would be required for each delivery. HSE would need to retain the supply tanker for a period of two weeks after each delivery to connect to HSE's equipment.

HSE S&RC has experience of handling such tankers from two previous research campaigns including the EU PresLHy project, and the tanker would be stored on a secure site.

Some of the previous work which shows HSE's setup was published in HSE RR986 - Releases of unignited liquid hydrogen, M Royle and D Willoughby, 2014

HSE is seeking to understand the potential cost and implications of this supply.

Suppliers should email tenders@hse.gov.uk, quoting HSE/T4292, with any questions and costs associated with supplying the above.

Section VI. Complementary information

VI.6) Original notice reference

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

Section VII. Changes

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

Section number

II.1.4

Place of text to be modified

Short Description

Instead of

Text

HSE would like to procure three deliveries of liquid hydrogen in late summer and autumn of 2023. A quantity of 2.5 tonnes would be required for each delivery. HSE would need to retain the supply tanker for a period of two weeks after each delivery to connect to HSE's equipment.

HSE S&RC has experience of handling such tankers from two previous research campaigns including the EU PresLHy project, and the tanker would be stored on a secure site.

Some of the previous work which shows HSE's setup was published in HSE RR986 - Releases of unignited liquid hydrogen, M Royle and D Willoughby, 2014

HSE is seeking to understand the potential cost and implications of this supply.

Suppliers should email tenders@hse.gov.uk, quoting HSE/T4292, with any questions and costs associated with supplying the above.

Read

Text

HSE would like 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 although this

could be negotiable.

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. HSE would be happy to consider other supply options if there are any available.

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](https://www.preslhy.eu)).

HSE is seeking to understand the potential cost and implications of this supply.

Suppliers should email tenders@hse.gov.uk, quoting HSE/4292, with any questions and costs associated with supplying the above.