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Planning

FUTURE ENERGY TRIAL - HYDROGEN

Ministry of Defence

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-031062

Procurement identifier (OCID): ocds-h6vhtk-037eb3

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Section I: Contracting authority

I.1) Name and addresses

Ministry of Defence

Bristol

Email

paul.hayes105@mod.gov.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

<https://contracts.mod.uk/go/0149739301843D0FF2A0>

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Ministry or any other national or federal authority

I.5) Main activity

Defence

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

FUTURE ENERGY TRIAL - HYDROGEN

II.1.2) Main CPV code

- 24111600 - Hydrogen

II.1.3) Type of contract

Supplies

II.1.4) Short description

This PIN establishes the requirement to trial other fuel sources for automotive use and remain consistent with the wider Departmental Climate Change and Sustainability (CC&S) drivers. There is a global commitment to transition away from fossil fuels in order to achieve both national and international sustainability commitments. This MOD trial is in support of the UK governments 2050 Net Zero Strategy.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 34144900 - Electric vehicles

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The UK MOD wishes to increase the capability of the future cars and vans white fleet through a trial of innovative renewable energy sources using a trial of hydrogen fuelled vehicles at various UK locations. The equipment and hydrogen powered vehicles used during the trial and any potential follow-on activity will be an experiment to gain experience in the use of hydrogen and inform any follow-on associated MT or infrastructure activity.

To trial hydrogen vehicles, of the type determined by the SRT will be provided under an agreement from the existing Phoenix II contract.

The trial should:

- a. Use hydrogen as an automotive fuel.
- b. Use hydrogen powered vehicles to include cars and vans. May include other vehicle types using industry standard connections.
- c. Handling and sourcing of hydrogen. Provide an assessment of the use of hydrogen as a green fuel, to understand the availability of green hydrogen or the next best 'green' option. This assessment would also include future hydrogen sources. Equipment setup, maintenance, and training to be given on equipment as required.
- d. In addition to the trial, the supplier will be required to provide suitable open access software to allow the monitoring of the remote stations and monitor fuel consumption. To provide remote support service to aid the user experience and help with any diagnostic activity.
- e. Government Furnished Assets will be used under this contract, as provided by the Phoenix II contract.

The outcome will be a trial that:

- a. Tests hydrogen powered vehicles. To test if it offers capability options for MOD to deliver the aims of the next white fleet contract due in be let by 2024. The trial in addition to testing normal MT characteristics of range and costs, there are some specific tests required and they are set by the Sustainable Road Transport team, and cover such areas as range, power, fuel cost and asset costs compared to BEV. The trial will also report on carrying capacity limitations or any other limitations such as reliability and usage rates.
- b. Tests logistic use of hydrogen. With learnings expected to cover, siting board, refueler operation, refueler deployability options, fuel quality issues and availability.
- c. Demonstrate that it reduces the reliance on the at-risk electrical infrastructure on the MOD estate while maintaining or increasing the capability and availability of an asset.
- d. References and is consistent with HM Government, other Government Departments and MOD strategies where appropriate.

II.2.14) Additional information

Delivery timescales will be finalised during development of the competition pack and SoR. The following is the initial indication of the expected timescale for the delivery of the required output.

- a. Initial findings (end of Phase 1) by 4 weeks from date of delivery of equipment.
- b. Final Report by 6 months from the date of delivery of the equipment.

II.3) Estimated date of publication of contract notice

30 November 2022

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: Yes