**HSE/T3575**



**STATEMENT OF SERVICE REQUIREMENTS FOR PROCUREMENT OF A BESPOKE PRESSURE VESSEL**

1. **HEALTH & SAFETY EXECUTIVE, SCIENCE DIVISION**

1.1 The Health and Safety Executive (HSE) is a Crown non-departmental public body with specific statutory functions in relation to health and safety. It is appointed by the Secretary of State for Work and Pensions and employs around 3500 staff including policy advisers, inspectors, technologists and scientific and medical advisers. HSE’s job is to prevent people being killed, injured or made ill by work.

* 1. HSE consists of a governing Board comprising of a Chair and nine non-executive members, all of whom are appointed by the Secretary of State for Work and Pensions after consultation with organisations representing employers, employees, local authorities and others, as appropriate. HSE comprises various directorates and groups and is led by a senior management team. HSE`s Science & Research Centre is located within a 550 acres site near Buxton in Derbyshire and is part of HSE`s Science Division. HSE works from over 30 locations throughout Great Britain.
  2. The science and research centre is Britain's leading industrial & occupational health and safety research facility. Science Division supports HSE’s mission to protect the health and safety of the national workforce by ensuring risks in the workplace are adequately controlled.
  3. Science Division employs circa 420 people including scientists, engineers, psychologists, social scientists, health professionals and technical specialists. Its capabilities encompass a wide range of topics including: health solutions, risk and human factors, fire, explosion and process safety; occupational and environmental health; safety engineering; work environment; and specialist photographic and technical services.

1.5Services Include:

* Research and development;
* Specialist advice and consultancy;
* Forensic investigation into the causes of accidents;
* Environmental and biological monitoring;
* Assessment of levels of risk and investigation of their control;
* Establishing realistic requirements for standards, and processes or meeting those standards;
* Validation and certification; and
* Training.
  1. To deliver these services Science Division has advanced facilities that range from high power computers for modeling and analysis, well equipped laboratories covering biomedical, occupational hygiene and environmental work to unique facilities for large scale experiments in the areas of engineering, fires, explosions and process safety.

**2 BACKGROUND TO THE PROJECT**

2.1 Hytunnel is an EU project, where HSE have been identified as one of the partners required to deliver a particular service with some very high risk dependencies.

2.2 Our role is to look at the future use of hydrogen for transport systems.

2.2 In order to deliver this service, we will need to procure a pressure vessel.

**3 SCOPE OF THE SERVICE REQUIRED**

3.1 HSE’s Science and Research Centre near Buxton have a requirement for the design, manufacture and delivery of the vessel to certified British Standards.

3.2 We are looking for a company whom they can work with for the design and manufacture of the pressure vessel.

3.3 The specification for the vessel is as follows:

* Design Code:- PD5500 or ASME VIII div 2;
* Maximum Operating Pressure:- 700 bar;
* Test Gases:– Hydrogen, but may, on occasion be required to contain Helium or Nitrogen;
* Operating Temperature Range:– 10 to 40 deg. C;
* Vessel Capacity:– 10 to 30 litres; and
* Outlet Port Diameter:– 100mm.

3.4 We envisage a ‘T’ shaped central section to which will be attached two in-line cylinders with removable end plates. The central section to have a 100mm diameter interconnecting passage to either cylinder together with a 100mm diameter central outlet port at rt angles to the cylinder axis.

3.5 Each cylinder to have a maximum capacity of 15 litres, an internal diameter of 125mm and a length of about 1200mm. We intend to change vessel capacity by using only one cylinder occasionally and/or by attaching a solid cylinder internally to an end plate. Attached to the outlet port will be a double bursting disc unit supplied by another company.

**4 DELIVERY & INSTALLATION**

4.1 Design of the pressure vessel is required to be complete by the end of March 2020. We understand that this will be dependent on meetings being held between both parties.

4.2 Delivery and installation of the pressure vessel is required by end of August 2020.

4.2 Bidders should confirm their ability to meet these dates. We would ask bidders to be as certain as they can as there is no room for slippage within this project.

**5 EVALUATION CRITERIA**

5.1 We will be evaluating the bids based on expertise, knowledge and experience in this specialist field and with a proven track record of similar designs and manufacture.

5.2 Bidders should include details of their expertise, knowledge and experience within their bids.

5.3 Bidders should include up to 3 references of other companies of whom they have undertaken similar work for.

5.4 Bidders should include details of any similar work that they have undertaken for other clients.

5.5 Our evaluation criteria will be:-

* 60% Quality & Skills;
* 30% Delivery; and
* 10% Cost.

5.6 We foresee this project being delivered in two parts i.e. Part 1 – Design of the Vessel, Part 2 – Manufacture of the Vessel.

5.7 Bidders should include an estimated cost for Part 1 – Design of the Vessel.

5.8 Based on the specification of the vessel, as detailed above, bidders should include an indication of the cost for Part 2 – Manufacture of the vessel. We appreciate that this will be difficult until the design is known, so a price range will be acceptable.

**6 CONTRACT MANAGEMENT**

6.1HSE’s Contract Manager for this procurement will be Keith Moodie, Explosive Atmosheres Consultant.

6.2 In order to meet this requirement we will need to hold regular meetings, with Keith and the contracted designer. Details of whom this individual will be should be included within your bid.

6.3 The sucessful bidder will be expected to assign a dedicated Account Manager who will be available 9am – 5pm, Monday to Friday to answer any questions or queries we have regarding the design, manufacture, and delivery of the vessel.

6.4 Details of whom this will be should be included within your bid.

**7 PAYMENTS**

7.1 HSE’s standard payment terms are 30 days following receipt of a correct invoice. However, we do aim to have payments made within 10 days.

7.2 As a Government Department working for the Crown, HSE do not make any upfront payments.

7.3 However, if a supplier is required to purchase any materials in order to complete this contract, HSE would be willing to make stage payments. These payments would be made following receipt of an invoice and confirmation from the HSE Contract Manager that the goods and services have been delivered as agreed.

7.4 If you envisage the need for stage payments, this should be highlighted within your bid.

**8 INTELLECTUAL PROPERTY RIGHTS (IPR)**

8.1 The successful bidder should, within their bid, confirm that following agreement of the design for the vessel, HSE would own the IPR of the design. This would include any work or outputs that you have produced on our behalf.

8.2 Confirmation of acceptance to this Clause should be included within your bid.

**9 CV’S**

9.1 Bidders should include within their bid, CVs of all the staff they envisage working with HSE on this project.

**10 TERMS AND CONDITIONS OF CONTRACT**

10.1 This procurement will be under HSE’s Terms and Conditions of Contract, of which a copy is available on request.

**11 INFORMATION REQUIRED WITHIN BIDS**

11.1 For ease of reference, below are details of the information we will require within your bid:-

* Confirmation that you will be able to complete the design of the pressure vessel by the end of March 2020;
* Confirmation that you can deliver and install the pressure vessel by the end of August 2020;
* Details of expertise, knowledge and experience in this area of work;
* Details of similar work undertaken for other clients;
* Details of up to 3 references of other companies of whom they have undertaken similar work for;
* Details of who will fulfil the role of Designer for this project, including their CV;
* Details of who will fulfil the role of Account Manager for this project, include their CV;
* Confirmation that the Account Manager will be available Monday to Friday, 9am – 5pm;
* Agreement that HSE will own the IPR for the design of the vessel, including any work or outputs that you produce on HSEs behalf;
* Details of CVs of all staff envisaged to work with HSE on this project;
* Costings for Part 1 – Design of the Vessel;
* An indicative range of costs for Part 2 – Manufacture of the Vessel; and
* Confirmation whether you will require stage payments for this project, and if so, your proposal of when they would be payable.

**12 FURTHER INFORMATION**

12.1 If you have any questions or queries regarding the above specification please email [tenders@hse.gov.uk](mailto:tenders@hse.gov.uk), quoting the reference 1.11.4.3575 – HyTunnel Pressure Vessel.