Statement of Work (SOW)

1. Scope

NASA Stennis Space Center requires American Society of Mechanical Engineers (ASME) certified pressure vessels suitable for hydrogen, methane, and nitrogen storage. Vessels must comply with ASME Boiler Pressure Vessel Code Section VIII, Division 1,2 or 3, and meet all specifications described in this document. Total vessel volume per skid or bottle should be roughly 625 cubic feet, a quantity of two is required for a total of roughly 1250 cubic feet. Vessels shall be coated/painted and of high-quality workmanship.

2. Applicable Standards

- Vessels shall be certified to ASME Section VIII, Division 1, 2 or 3

3. Technical Requirements

3.1 Vessel Specifications

- Total volume roughly 625 cubic feet each
- Quantity – 2
- Material: SA372 Grade J or equivalent
- Design pressure: 15,000 PSIG

3.2 Assembly Pack Configuration Option

- Four (4) tubes arranged vertically in an I-beam or equivalent support structure
- 1-inch medium pressure end connections
- Integrated lifting and handling points designed for full assembly weight
- Suitable for safe transport, installation, and operation

3.3 Single Bottle Option

Vendors also have the option to provide pricing, lead time, and full specifications for the procurement of a single 15,000 PSIG ASME certified pressure vessel tube with the characteristics listed in Section 3.1. Connection shall be 6-inch R-Con.

4. Cleaning and Coating Requirements

- Cleaned to minimum Level 400A per RPTSTD-8070-0001
- Corrosion resistant coating/painting required
- Surface preparation ensuring long-term outdoor corrosion protection in Gulf Coast environment

5. Delivery Requirements

Delivery shall be made to Bldg. 4010, NASA Stennis Space Center (SSC), MS 39529. Vendors shall specify their expected delivery schedule and transportation method.

6. Quality Assurance and Inspection

- ASME code stamp and certification for each vessel
- Full material and manufacturing traceability
- Hydrostatic and non-destructive examination (NDE) test reports
- Option for NASA or delegated source inspection access during fabrication

7. Required Vendor Documentation

- Submittal drawings to be provided to and approved by NASA Engineering personnel prior to construction
- Technical datasheets demonstrating compliance
- ASME certification documentation
- Schedule – Delivery shall be No Later Than (NLT) 42 weeks after contract award.
- Warranty terms – 12 Months after date of delivery