

03. TECHNICAL SPECIFICATIONS

3 TECHNICAL SPECIFICATIONS

3.1 Specifications for 10 Nos. 3" inch Dia. Aviation Refueling Hose (6.5 m length)

| No. | Conditions | Answer (Yes/ No) |
|-----|---|------------------------|
| 01 | <u>Hose</u> Type-C, Outer cover of the hose should be seamlessly extruded CR-Rubber to withstand Ozone, Weather & abrasion and inner lining of the hose should be seamlessly extruded NBR-Rubber to resist for Jet A- I. | |
| 02 | <u>Manufacturing and Testing</u> ISO 1825: 2017 / El 1529 7th edition Type-C | |
| 03 | <u>Markings</u> Hose shall be embossed that showing all met standards, serial No, Date of le manufacture, electrical conductivity, Batch No. and name of the manufacture | |
| 04 | <u>Operating Temperature</u> Operating temperature 5 C to 50 C | |
| 05 | <u>Assemblies</u> One side 3" inch BSP Tin plated brass Male coupling with bolted clamps and other side 3" inch BSP Tin plated brass Female coupling with bolted clamps. | |
| 06 | <u>Manufacturing, Testing and marking- Assemblies</u> Coupling should be according to EN14420 and it shall be manufactured by forging and also it should be engraved ISO/EI standard, serial No., date of manufacture & name of the manufacture. | |
| 07 | <u>Operating Temperature- Assemblies</u> Operating temperature 5 C to 50 C | |
| 08 | <u>Test Certificate for Hose and Assemblies</u> Test certificate shall be provided according to EN 107484-3.1 | |
| 09 | <u>Country of Origin</u> USA, UK, Europe, Canada, Australia and Japan only. | |
| 10 | Bidder shall finish his response for all the above details (1), (2), (3), (4), (5), (6), (7), (8) & (9) along with the bid for evaluation purposes and those who fail to submit the details will not be considered for evaluation. | |
| 11 | Bidder shall provide manufacturer's warranty that the design, engineering & hose/material supplied shall be free from defects & shall conform & shall perform so as to comply with specifications contained. This manufacturer's warranty shall cover a minimum period of twenty-four (24) months from the date of delivery. Warranty conditions shall be clearly indicated in the bid. | |

3.2 Specifications for 07 Nos. 2 ½” inch Dia. Petroleum RTW Hoses (30 m length)

| No. | Conditions | Answer (Yes/ No) |
|-----|---|---------------------|
| 1 | a. Manufacturing & testing shall conform to standard EN1765:2004. Bidder shall forward supportive documentary evidence with originals along with the bid for verification during the process of evaluation | |
| | b. All items must have their country of origin and country of manufacture in either USA, Canada, UK, Europe, Japan, or Australia. | |
| 2 | <u>Operating Conditions</u> | |
| | a. Classification: Type S | |
| | b. Maximum working pressure: 10 bar | |
| | c. Maximum working temperature: 45°C | |
| | d. Fluids to be conveyed: Gasoline, Gas Oil, Kerosene, Jet A-1 & Fuel Oils | |
| 3 | <u>Other Conditions</u> | |
| | a. Nominal Bore: 63.5 mm (2 ½”) | |
| | b. Nominal Length: 30 m | |
| | c. Continuity: Electrically continuous type assembly | |
| 4 | <u>Material of Constructions</u> | |
| | a. The hose shall be uniform in quality and free from porosity, air holes & inclusion | |
| | b. Shall have a lining of synthetic rubber resistance to hydrocarbon fuels | |
| | c. Shall have a reinforcement layer of woven, braided or spirally wound textile material | |
| | d. Shall have electrically bounding wires for continuity | |
| | e. Shall have an outer layer of synthetic rubber resistance to abrasion, outdoor exposure and hydrocarbon fuels | |
| | f. Shall be flexible enough for easy operation | |
| 5 | <u>Test Reports</u> Hydrostatic Test report is to be submitted at the time of delivery of goods. Test shall be carried out as per Standard EN 1765: 2004 . Hydro test certificates shall be provided in accordance with EN 10204 Type 3.1 | |

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| 6 | <u>Markings</u> Manufacture shall specify the marking of each hose with size of letterings, their trade name and any international standard adopted in manufacturing and testing and also shall specify the marking "CPSTL" on each hose in one (01) meter gaps. Bidder's response on these "markings" shall be clearly specified along with the bid, for evaluation purposes. | |
| 7 | Bidder shall finish his response for all the above details (1), (2), (3), (4), (5) & (6) along with the bid for evaluation purposes and those who fail to submit the details will not be considered for evaluation. | |
| 8 | Bidder shall provide manufacturer's warranty that the design, engineering & hose/material supplied shall be free from defects & shall conform & shall perform so as to comply with specifications contained. This manufacturer's warranty shall cover a minimum period of twenty-four (24) months from the date of delivery. Warranty conditions shall be clearly indicated in the bid. | |

Signature of the Bidder:

Date:.....

Company Seal (Rubber Stamp)