

FLOW METER & DEWAR

Sr#	Description	Qty
1	<u>Flow Meter</u> <ul style="list-style-type: none"> • Fluids: Liquid Oxygen/Liquid Nitrogen • Working Pressure: 6 MPa • Flow rate 1-10 liters/sec • Size: DN-50 • Power Supply: 15-30 Volt DC • Output: 4-20 mA • Display at 100 meters away • Seals and wetted parts compatible with LOX/LN2 • Fluid temperature: -200 - +100 deg. Centigrade • Response time: 100-500 ms • Accuracy: +/-0.5% • Resistant to Vibration • End Connections: Flanged • Preference: Turbine or Venturi type flow meter 	2
2	<u>Cryo Liquid Oxygen Tank</u> <ul style="list-style-type: none"> • Type: Dewar • Orientation: Horizontal /Vertical • Mounting: Moveable frame with brakes in wheels • Capacity: Approx. 500 Liters • Working pressure: 40 bar • Dry Vacuum Level: 0.02 mbar • Evaporation Rate: 0.2 - 0.4%/day • Liquid Inlet and Outlet Line Size: Nominal diameter (DN) 50 mm • Accessories: <ul style="list-style-type: none"> ○ Liquid Inlet and Outlet Valve (Size DN 50 mm) ○ Working Pressure 40 bar ○ Pressure building system with Booster valve and Combined Pressure regulating valve ○ Content gauge ○ Pressure gauge ○ Vacuum measuring gauge ○ bursting disc ○ Safety valve ○ Vent valve 	2

Notes:

a. For Item Sr#1, The Flow Meter:

- i. Please specify the type of flow meter offered in the quotation.
- ii. Pre-shipment inspection and training will be required at supplier's premises.
- iii. Technical literature of the offered flow meter must be submitted with the quotation.
- iv. Calibration certificate(s) are required in case of an order.
- v. Installation, Operation & Maintenance Manual in English must be provided in case of an order.
- vi. Circuit diagram in English must be provided in case of an order.

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- vii. If Venturi flow meters are offered, two sets of sensors/pressure transducers are required with each flow meter.
- b. For Item Sr#2, The Cryo Liquid Oxygen Tank:
 - i. Please provide qualification certificate with the quotation.
 - ii. Please quote for spare parts and accessories for four replacements of each tank.
 - iii. Technical literature must be provided with the quotation.
 - iv. Installation, Operation & Maintenance Manual in English must be provided in case of an order.
 - v. Pre-shipment inspection at supplier's premises will be required in case of an order.