

Liquid Oxygen Tanker Vehicle & Dispenser

CAPABILITY SHEET · MOBILE AIRCRAFT LOX REPLENISHMENT · UNDER CONTRACT

THE OUTFIT

WHAT	Mobile aircraft liquid-oxygen replenishment outfit: a road-vehicle-mounted LOX tanker of ~950-990 L plus a towable trolley LOX storage-cum-dispenser of 220-260 L, charging aircraft on-board LOX converters on the flight line.
STATUS	Under contract - designed to an Indian military-aircraft organisation's specification; design approved; vessels in fabrication at Noida; certification and documentation in the delivery scope. Not a delivered claim.
DUTY	Fetch LOX from the supplier, carry it to the airfield, transfer to the towable dispenser through braided cryogenic hoses, then wheel it to the aircraft and charge the on-board LOX converter via a charging coupling.

REFERENCE CONFIGURATION

ROAD TANKER	950-990 L double-walled horizontal vessel: SS-304 austenitic inner, carbon-steel outer, vacuum-perlite insulation, on a BS-VI diesel 4x2 cab-chassis (RTO-registered); operating 30-80 psi, design 250 psi hydro-tested; -183 degC operating, -196 degC design.
SAFETY TRAIN	Pressure-building coil for pumpless transfer; two safety relief valves through a divert ball valve plus a rupture disc; manual vent; cryogenic extended-spindle valves; stainless operating cabinet with uplift lockable door and funnel drain.
TOWABLE DISPENSER	220-260 L full-vacuum-jacketed vessel on a wheeled trolley with tyre guards and a height-adjustable towing end; design 140-150 psi, operating 40-75 psi; own operating cabinet with content and pressure gauges and regulating/shutoff/relief valves.
INTERFACE	Two braided cryo hoses tanker to dispenser; two with charging couplings dispenser to aircraft LOX converter; two spare couplings. All LOX-wetted parts austenitic stainless or certified LOX-compatible, degreased and oxygen-cleaned.

CERTIFICATION & SUPPORT

VESSEL CODE	Pressure vessels to ASME Section VIII Div, SMPV(U) Rules and CCOE/PESO type approval; TPIA-witnessed and radiographed; material, inner-vessel hydro-test and gauge-calibration certificates issued on delivery.
SPARES	Spare pressure regulator; 10x rupture discs for the tanker plus 10x for the dispenser; spare pressure and content gauges; standard tool kit; spare wheel; minimum one-year warranty from acceptance.
DOCUMENTATION	Two sets of operation, maintenance and spare-parts manuals for the LOX tanker and the towable dispenser unit.

VARIANTS & ENGAGEMENT

VARIANTS	Larger road tankers, semi-trailer LOX transports and skid-mounted stations; smaller trolley dispensers; liquid nitrogen and liquid argon transport and dispensing on the same double-walled, vacuum-insulated platform.
GAS & CRYO LINE	Sits alongside our static LOX storage-cum-dispenser units, liquid-nitrogen dewars, nitrogen and oxygen generation and flight-line gas-charging rigs - one supplier across the airfield gas chain.
ENGAGEMENT	Send your specification to sales@neometrixgroup.com - clause-by-clause compliance matrix and budgetary quotation within two working days. Export subject to GoI authorisation.

DEFENCE PROGRAMMES DESK

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Reference configuration reflects the outfit under contract for an Indian military-aircraft organisation. Vehicle class, vessel capacities and fittings are re-scoped against the customer's specification.