

INSPECTION CHECKLIST FOR BULK TRANSPORTATION OF LNG CRYOGENIC TANKER

Annual Inspection

Part 1: Particulars of Inspection

Prime Mover LNG Chassis / Trailer (with ISO Tank) LNG Road / Rigid Tanker

Semi- Trailer (fixed with Cryogenic Tank)

Vehicle No. :

Trailer No :

Tank Serial No :

Transfer Mode of LNG : Pump Transfer Vaporizer (Pressure)

Company / Name of Vehicle Owner :

Postal Address :

Telephone No :

Fax No :

Email :

Max. Laden Weight (Kg) :

Unladen Weight (Kg) :

Tank Gross Weight (Kg) :

Tank Manufacture Year :

Capacity (Litres) – Not more than 28.4kL :

Tanker Design Code :

Design Pressure/ MAWP :

Name of Supplier :

Supplier Contact No :

Part 2: Documents Requirements

NA – Not Applicable, S – Satisfactory, NS – Not Satisfactory

Documents Required	NA	S	NS
Manufacturer's data report (eg. ASME U-Stamp, EN code, etc...)			
A copy of tanker drawing endorsed by PE			
A copy of tanker technical calculations for stability endorsed by PE (New Tank)			
Hydrostatic report-endorsed by PE (New Tank)			
Radiographic report endorsed by PE (New Tank)			
Pneumatic or equivalent test report for tank and manifold piping system (working pressure) endorsed by PE (once every 5 years)			
Road worthiness Certificate issued by LTA			

Part 3: Technical Requirements

Technical Requirements – Vehicle	NA	S	NS
Prime Mover/ Road Tanker equipped with ABS system			
Fire shield at rear of cabin provided and in order			
Roll Over Prevention Stability System provided			

Technical Requirements – Vehicle	NA	S	NS
Exhaust system in order (adequately shielded from direct contact with fuel from overfilled tanks and leaks)			
Rear and side under-run protection (heavy duty steel) 15 cm from tank			
Metal conduits for all electrical wirings in good condition			
Anti-Tow Interlocks systems (to prevent driving away while connected to driving rack or during dispensing) in order			
Battery cut off in order / Proper battery compartment			
2 x 9 kg dry powder and 1 x 1 kg dry powder / 2.5 kg CO2 fire extinguishers			
Transport Emergency Information panel (TEIP) complying with GHS (Warning notices) provided at 3 sides			
Earth winch shall be provided for operating during load and unloading of LNG			
Spark arrestor (Flame Trap)			
Earthing strap provided and touching the ground			
Technical Requirements – LNG Tank	NA	S	NS
Visual Inspection on Outer Vessel / Tank (eg. to inspect for any sign on sweating, cold spots or algae)			
All vent pipe nozzles are piped upwards and are not piped downwards to the chassis (LNG Trailer/ ISO Tanker)			
Discharge Faucets in order			
Lighting in cabinets shall be Vapor Proof design or explosion proof design (Intrinsically safe)			
Cabinet enclosure shall be designed with louvers			
Wiring circuit shall be house in steel conduits			
All valves and Safety pressure relief valves in working order			
Pressure and Level gauges in working order			
Vacuum reading in working order (< 20 micron)			
Emergency cut off device in working order			
Pump, Vaporizer and piping yearly maintenance report (Renew)			

Part 4: Certification from Approved Third Party Inspection Body

This is to certify that the above vehicle and tank were inspected and tested in accordance with the items listed above and the prescribed fire safety requirements in relation to the vehicle were complied with:

Date of inspection and testing :

Name and NRIC of Inspector :

Signature of Inspector :

Stamp of approved Third Party Inspection Body :