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CNG CASCADE FILLING SYSTEM

Technical Specifications & Construction Details

CNG CASCADE FEATURES

The CNG Storage Cascade System is a high-pressure gas storage solution designed to safely supply gas at required operating pressures. The system consists of a group of CNG cylinders interconnected with SS 316 stainless steel tubing, mounted on a strong iron structure.

Designed and manufactured in compliance with the latest PESO norms, the cascade uses Cr-Mo steel cylinders as per IS 7285 Part II, approved by the Chief Controller of Explosives. All tubing, valves, and fittings are made from SS 316 stainless steel to ensure long service life and maximum safety.

Each cylinder is fitted with an individual shut-off valve and a fusible plug conforming to IS 3224:2002. The cascade is housed in a heavy-duty galvanized/MS frame with a corrosion-resistant paint coating of minimum 300 microns.

The system supports three-bank operation with non-return valves, pressure gauges on Low, Medium, and High banks, and a temperature gauge on the High bank. The structure is engineered to withstand a 4G impact test, ensuring reliable and safe operation under demanding conditions.



CNG / CBG Cascade Configuration Details

S.No.	Type (CNG/CBG)	Water Capacity Cascade (In Liter)	Weight of Cascade (In Ton)	No. of Cylinders	Water Liter Capacity	No. of Banks	No. of Cylinder in each Bank
1	Stationary	3000	6.2	40	75 L	Three/One	20:12:8 (L:M:H)
2	Stationary	4500	9.3	60	75 L	Three/One	30:18:12 (L:M:H)
3	Mobile	3000	6.2	40	75 L	Three/One	20:12:8 (L:M:H)
4	Mobile	4500	9.3	60	75 L	Three/One	20:12:8 (L:M:H)

Above Specifications of CNG STORAGE CASCADE are standard, and if required it is subjected to modifications as per actual customer requirements.