

LNG Dispensing Station for Mining Industry



Courtesy : Cryogas equipment Pvt Ltd & LNG Express (India) Pvt Ltd

Cryogas Equipment, a company within Cryogas Industries Group, designed, manufactured and despatched after cryo-testing the complete LNG dispensing Station from its State of Art Workshop in GIDC Waghodia, Vadodara, Gujarat, India.

Under the turnkey contract with Reliance Sasan Power, Cryogas will install complete system, which will store LNG, saturate and pump saturated LNG by using state of art LNG dispenser into mining dumper trucks.



Courtesy : Cryogas equipment Pvt Ltd & LNG Express (India) Pvt Ltd

LNG Saturation Skid

LNG Dispensing Pump Skid

LNG Dispenser with flow
meter

(A)

(B)

(C)



Courtesy : Cryogas equipment Pvt Ltd – Shop Picture

(A)

(B)

(C)

(A) LNG Saturation Skid

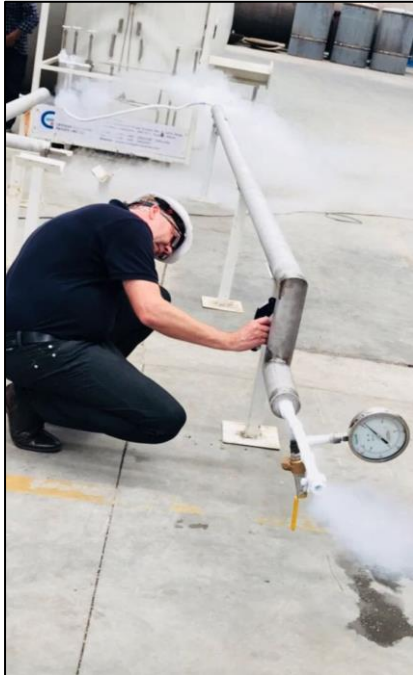
Sub cooled LNG is saturated before it is filled into the fuel tank installed on board the mining truck. This ensures that during rugged transportation pressure inside the on board LNG fuel tank pressure will not collapse due to splashing of LNG.

(B) LNG dispensing pump skid ensures timely and quick refilling of on-board LNG fuel tanks. Approximate re-filling time considered is between 3-4 minutes.

(C) LNG dispenser has been designed with fool proof safety, flow measurement and soft touch control panel & utmost user friendly orientations.



LNG Dispensers Courtesy : Cryogas equipment Pvt Ltd – Shop picture



Vacuum Insulated LNG transfer cryogenic pipeline

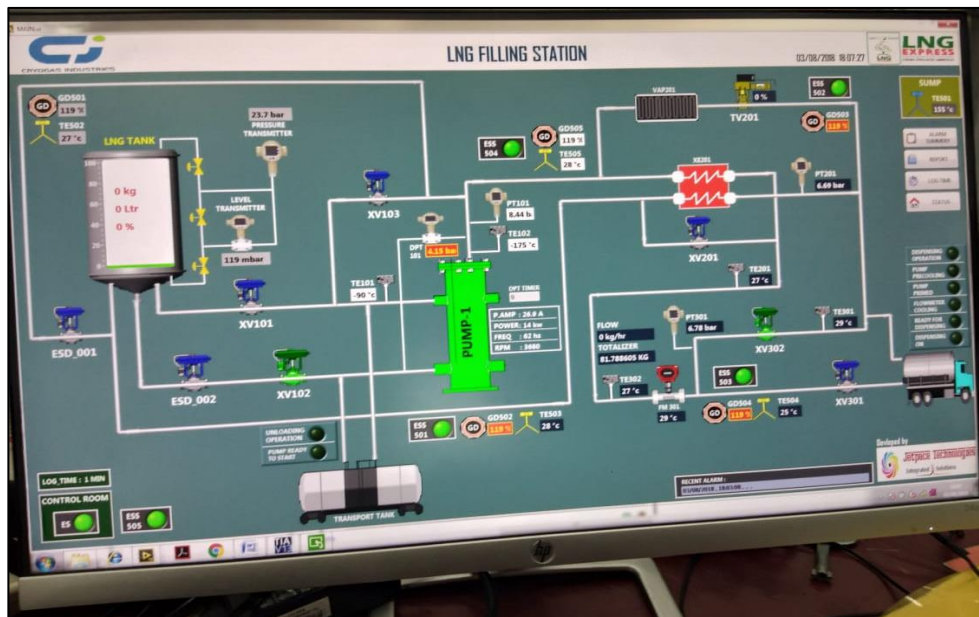
Courtesy : Cryogas equipment Pvt Ltd – During inspection Stage

(D) Vacuum Insulated Pipelines are used for transfer LNG from Tankers to Storage Tank and from Storage Tank through the LNG Dispensing pump to LNG dispenser for refuelling LNG fuelled Dumper trucks.



225 MT Payload dumper truck Courtesy : Reliance SASAN Power, Cryogas equipment Pvt Ltd during Site Visit of our LNG Engineer

(E) Caterpillar 225 MT payload dumper truck for coal transportation in the Reliance Sasan mine site to be fuelled by saturated LNG on-board.



PLC SCADA Courtesy : Cryogas equipment Pvt Ltd during testing at shop

- (F) Cryogas has also provided its latest generation of PLC SCADA system with total integration. The complete system was tried and tested using Liquid Nitrogen @ -196 degc in Cryogas Workshop before despatch to the customer.



Actual testing picture at Cryogas shop using liquid nitrogen at -196 degc for validation purpose

Courtesy : Cryogas Equipment Pvt Ltd – FAT & Cryo test in Shop

- (G) Cryogas has proved its point once gain. LNG has to play major role in the energy mix in India. Fully indigenised development and low temperature testing before despatch ensure quick installation, commissioning and guarantee performance keeping safety as the first pre-requisite.