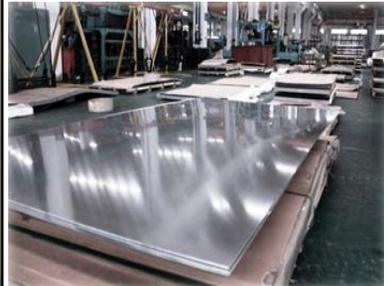


AMMONIA CRACKER UNIT



ISO 9001 : 2015 CERTIFIED COMPANY



SAM GAS PROJECTS is **ISO 9001:2015** certified, Professionally Managed Engineering Organization, Specialized in Design , Manufacture , Supply & commissioning of ‘**State of the Art**’ Gas Plants and Compressed Air Systems.

SAM GAS PROJECTS has supplied more than **1500** Systems, which are working satisfactorily all over India & across the Globe in more than **50 countries**.

NITROGEN GAS PLANT

- PSA Technology
- Membrane

HYDROGEN GAS PLANT

- Ammonia Cracking Units
- Water Electrolysis Based

OXYGEN GAS PLANT

- PSA Technology
- VPSA Technology
- Medical Grade

COMPRESSED AIR DRYERS

GAS PURIFICATION SYSTEMS

HYPOXIC CHAMBERS / SYSTEMS



ISO 9001 : 2015 CERTIFIED CO.

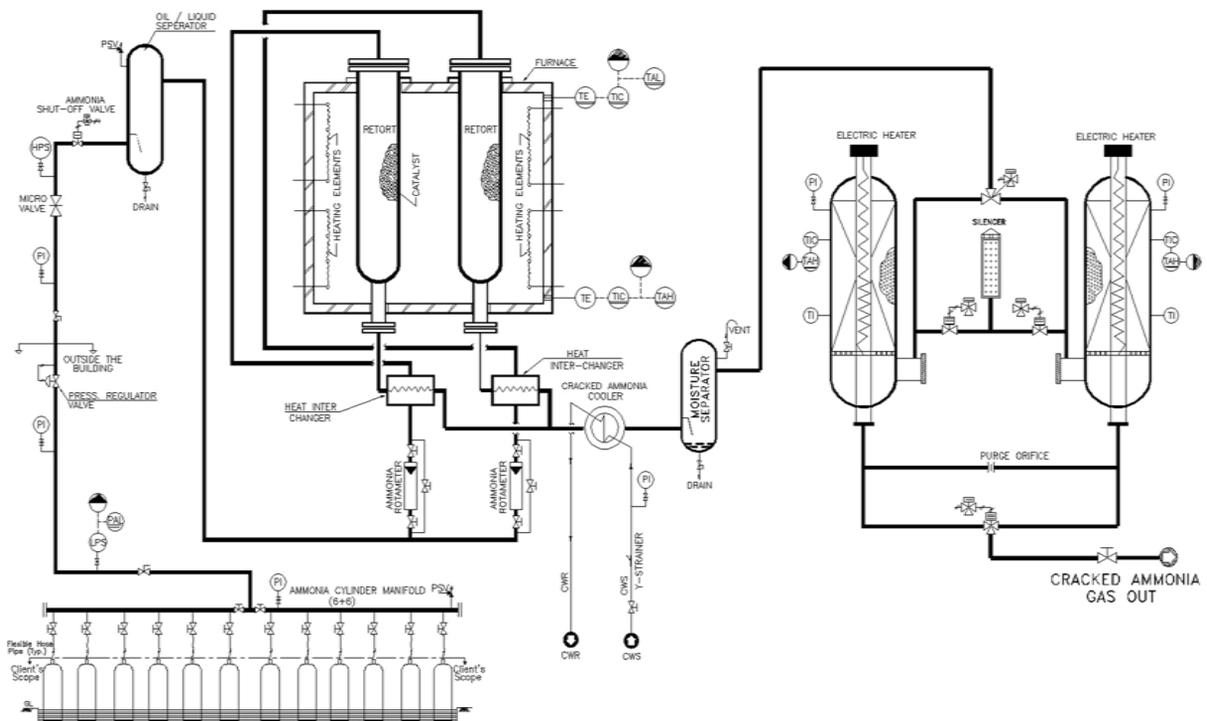
AMMONIA CRACKER UNIT

In Electrically heated or Gas fired furnace, fitted with Centrifugally Casted Cylindrical Retort filled with nickel Catalyst. Operating temperature of ~ 900°C is maintained with electrical power supply or with burning of Gas . Ammonia is passed through retort and in presence of Nickel Catalyst, it dissociates to its constituents Hydrogen and Nitrogen. Hence gas mixture of Hydrogen and Nitrogen is available in the ratio of 3:1.



To improve dew point of final Cracked Ammonia Gas is passed thru cracked ammonia purifier, which is twin tower system. Both towers are filled with molecular sieve and are fitted with individual regeneration heater. One tower remains under drying cycle . Subsequently the other tower remains under regeneration cycle.

- Capacity : 1 to 1000 NM³/Hr.
- Type : Electrically Heated or Gas Fired
- Composition : Hydrogen 75% + Nitrogen 25%
- Dew Point : (-) 40°C to (-) 80°C ADP
- Pressure : 0.2 – 8.0 Kg/cm²g





APPLICATIONS

It is economical , alternate source of hydrogen and is preferred for

- Heat Treatment Application
 - Annealing
 - Sintering
 - Galvanizing
 - Steel Wires
- Reducing furnace atmosphere
- Bright annealing of Stainless Steel
- Bright annealing of Carbon Steel



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