

Accredited with ISO 9001:2008 certification, our firm is affianced to manufacture, export and supply Oxygen Gas Plant for clients. The offered plant works on medium pressure technique for the commercial production of oxygen gas by taking air through compressor under the appropriate pressure and separation of oxygen from gaseous mixture. Assembled with the aid of innovative techniques using topnotch quality components, this plant is renowned for its economical separation and lower maintenance cost. Furthermore, the provided Oxygen Gas Plant can be availed from us in different capacities ranging from 20m<sup>3</sup>/hr to 1000 m<sup>3</sup>/hr with a purity rate of 99.7% for oxygen and up to 99.99% for nitrogen.

**Features:**

Medium pressure technology to ensure optimum performance  
Does not require gas holder for storage  
Automatic controls to assure continuous feeding of water  
Automatic maintenance of pressures and temperatures  
Excellent absorption of gas in cylinders  
Zero gas wastage due to optimum quality cylinders  
Hassle free and safe operation  
Low consumption of power for higher yield

Our Oxygen Gas Plant Consists Following Equipment:

**1. Air Compressor:**

Featured with built-in filter system having steel structure, de-dust system with valve, supports elements, collecting machine, spray equipment, automatic clean and control system. Pressure differential transmitter for uninterrupted transmission of pressure difference signals to PLC. Equipped with all basic instruments and electric control systems

**2. Air purification unit:**

Skid-mounted molecular sieve battery  
Equipped with dual vessel reactivation heater with molecular sieve for skid mounting on process system  
Provided with defrost heater Consists of 5 kW heating element and heating coils  
Standard layout of gas as well as air lines Standard layout of all high pressurized pipelines for process air viz. Nitrogen and Oxygen along with elbow sockets and other allied fittings as per standard layout drawing

**3. Air Precooling Unit:**

Composed of one condenser, evaporator or water cooler, set of piping and valves, instrumentation fitting and water separators

**4. Air Separation Column (Cold Box):**

Cryogenic type unit with complete support for internal parts and connected pipes including heat exchangers condensers of PLATE FIN type and rectification columns.

**5. Expansion Engine:**

Based on the latest techniques and international design, this expansion engine is coupled with heat exchangers to assure easy liquefaction of air and the highest degree of cooling. Equipped with bursting disc for safety, fly wheel, hydraulic valve control, motor pulley, motor/starter, belt guard, V-belt and side rails, this engine is ideal for readily installation.

**6. Liquid Oxygen Pump:**

The offered plant is equipped with fully automatic pumps to pass the final output of oxygen through for filling into different cylinders. The operation of filling in cylinder is performed at within a pressure range of 155-200 bars with the aid of integrated liquid oxygen pump that is connected with cold box.

**7. Oxygen Cylinder Filling System:**

Oxygen filling SYSTEM (PUMP/BOOSTER) for safe filling of oxygen into cylinders

**8. Filling Manifold Cylinder Filling Station for Filling Oxygen Gas:**

Equipped with control valves, pressure gauge safety valve and pigtail connections points

**9. Digital Automatic Purity Analyzer**

Online, continuous and automatic calculation of oxygen purity for strict quality control