



**“TECHNOLOGICAL  
ADVANCEMENT  
*Always!*”**



### Director's Profile

- **Prajesh Patel**  
M.Sc. Statistics
- **Surender Singh Deora**  
B.Tech E&TC
- **Niraj Kumar Singh**  
B.E. Mechanical

## We Bring The New Idea To Future of Bio Technology

**ENGINOX TECHNOLOGIES** is one of the leading emerging companies having intention to provide quality services and spares the field of process and purification of Air and Gas to the Indian industry as well abroad. We are an ISO 9001:2015 Certified Company & specialised in design and turnkey supply of Gas equipment. We provide erection, installation and commissioning services for our equipment.

We serve following industries with our range of Oxygen Generators, Hydrogen Generators, Ammonia Cracker, Medical Oxygen Plants, Oxygen Gas Plants, Nitrogen Gas Plants, PSA Oxygen Gas Plants, PSA Nitrogen Gas Plants and various types of Compressed Air Dryers.

**Airshuddhi Engineers** is a our sister concern company which mainly involves in transforming organic waste into Green Energy along with manufacturing and designing high quality Bio Gas generation Plant, Bio Gas Purification & Bottling Plant.



### QUALITY COMMITMENT

We never compromise on quality. Our products are tested thoroughly at every stage and hence are of highest quality.

### CUSTOMER CENTRIC

Customer satisfaction is our one true goal and our every action will revolve around driving true value to the customer.



### SOLUTION FOCUSED

Identify and offer effective solutions & challenges in the industry and at our facility.



# PSA Nitrogen Gas Plant



## SALIENT FEATURES OF PSA NITROGEN GAS PLANTS



Capacities  
upto 2000  
Nm<sup>3</sup>/hr.



No fuel is  
required



Purity up to  
99.999% is  
easily achievable



Low Capital  
& running cost



Start up time of  
only 15 minutes

Following are the Generator Models to produce different Nitrogen Purity:

### E TECH – S MODEL PSA NITROGEN GAS PLANT



Flow Rate	1-1000 Nm <sup>3</sup> /Hr
Nitrogen	98-99.99%
Oxygen	0.01%
Hydrogen	Nil
Dew Point	(-)40oC to (-)80oC

#### Application

As Inert gas in Chemical Industries, Food & Pharmaceutical Industries, For fire control in Coal mines etc.

### E TECH – PD DXO MODEL PSA NITROGEN GAS PLANT



Flow Rate	1-1000 Nm <sup>3</sup> /Hr
Hydrogen	0.5%
Nitrogen	~100%
Oxygen	<3 PPM
Dew Point	(-)40°C to (-)80°C

#### Application

As Inert gas in Chemical Industries. In applications where oxygen impurity is not acceptable.

### E TECH – CU DXO MODEL PSA NITROGEN GAS PLANT



Flow Rate	1-1000 Nm <sup>3</sup> /Hr
Nitrogen	~100%
Hydrogen	Nil
Oxygen	<3 PPM
Dew Point	(-)40°C to (-)80°C

#### Application

As Inert gas in Pharma, Electronic, Synthetic Fiber and Hi-tech Industries where one needs Ultra High Purity.



# PSA / VPSA Oxygen Gas Plant

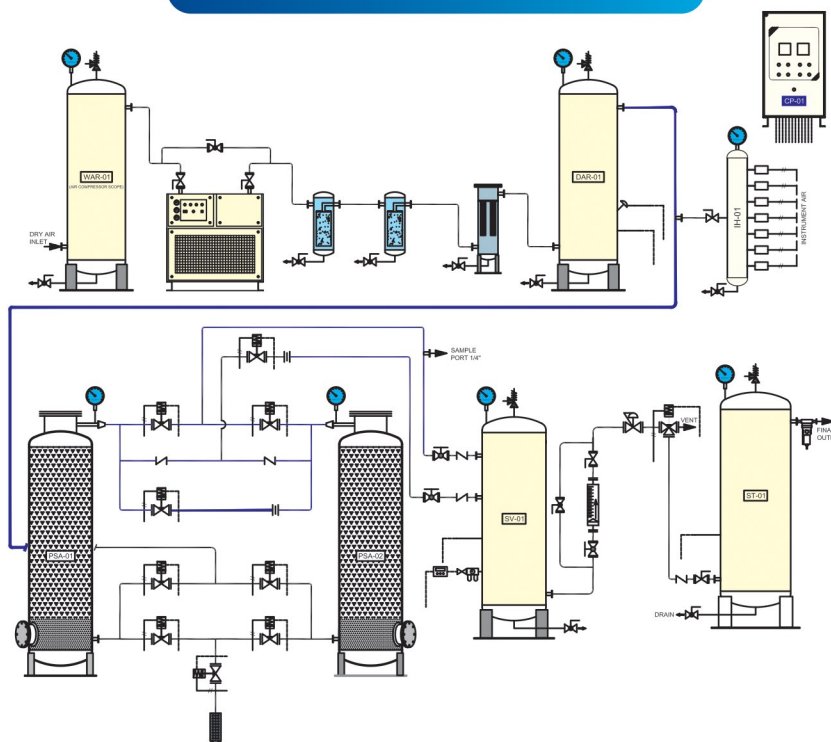


## Salient Features of Oxygen Generation Plant:

- Full Automation & entire systems are designed for unattended operation and automatic Oxygen demand adjustment.
- Lower space requirement the Design & Instrumentation makes the plant size very compact, assembly on skids, prefabricated and supplied from factory.
- Fast Start-up time is only 5 minutes to get desired Oxygen purity. So these units can be switched ON & OFF as per Oxygen demand changes.
- Very reliable for continuous and steady operation with constant Oxygen purity. Plant availability time is better than 99% always.
- High Reliability expected Molecular Sieves life is around 10-years i.e. whole life time of Oxygen plant. So no there is no replacement cost.

## Our Extensive Standard Product Range Includes Models Supplying From 0.7 To 484.8 M<sup>3</sup>/h.

### P & I Diagram for PSA Oxygen Gas Plant



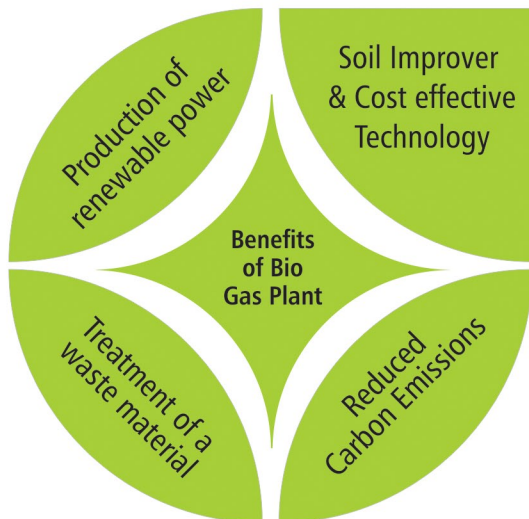
Model Name	E TECH – O <sub>2</sub>
Purity	91% - 93%
Capacity	1-1000 Nm <sup>3</sup> /Hr
Pressure	2-25 Bar
Dew Point	(-) 40°C





## ▶ Biogas Generation Purification & Bottling Plant ▶

“**Biogas** is a renewable source of natural gas generated from the anaerobic digestion of waste materials in municipal landfills, waste water treatment plants and anaerobic digesters processing agricultural and industrial organic wastes.



### CNG FUELS

Bio Methane can also be used as a Carbon-Neutral Compressed Natural Gas (**CNG**) vehicle fuel for vehicles including refuse Trucks, Heavy Duty Transportation Trucks, Transit Buses and Passenger Cars.



# Oxygen Gas Analyzer & Sensor



## OXYGEN GAS ANALYZER



## OXYGEN GAS SENSOR



## AIR & GAS DRYER

- Heat Less Air Dryer
- H.O.C Air Dryer
- No Purge Loss Split Flow Air Dryer
- Internal Heated Type Air Dryer
- Reactivated Blower Type Air Dryer
- Low Pressure Air Dryer
- Refrigerated Air Dryer







# Service & Maintenance

**Enginox Technologies** is one of the leading emerging company having intention to provide quality services and spares in the field of process and purification of Air and Gas to the Indian industry as well as abroad. We also specialize in design and turnkey supply of Gas equipment. We provide erection, installation and commissioning services, maintenance & AMC for our equipments & respective products.

**we also offer the following maintenance related services for our equipment.**



After Sales Service



Annual Maintenance Contract (AMC)



Maintenance Training for Industrial Staff

## SPARE & PARTS

We provide all Spare & Parts for your Gas Generation plant and Air dryers as follows:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> PPM & Percentage Oxygen Gas Analyzer | <input checked="" type="checkbox"/> Pressure Switches        |
| <input checked="" type="checkbox"/> Oil & Dust Filters                   | <input checked="" type="checkbox"/> Rotameter / Flow Meter   |
| <input checked="" type="checkbox"/> Thermocouple & RTD                   | <input checked="" type="checkbox"/> Temperature Transmitter  |
| <input checked="" type="checkbox"/> Automatic Drain Valves               | <input checked="" type="checkbox"/> Pressure Transmitter     |
| <input checked="" type="checkbox"/> Pneumatic Auto Valves                | <input checked="" type="checkbox"/> Carbon Molecular Sieves  |
| <input checked="" type="checkbox"/> PLC & HMI                            | <input checked="" type="checkbox"/> Zeolite Molecular Sieves |
| <input checked="" type="checkbox"/> Pneumatic Actuators                  | <input checked="" type="checkbox"/> Activated Alumina        |
| <input checked="" type="checkbox"/> Solenoid Valves                      |  |



## INDUSTRIES WE SERVE



Food & Beverages



Petroleum



Pharmaceuticals



Automobile



Oil Refineries



Polyester Plant



Energy



Steel Industry



Cement Plant



Our Sister Concern Company



**Registered Office:**  
305, Royal Square, Next to R K Party Hall,  
Science City Road, Sola, Ahmedabad-380060,  
Gujarat, INDIA.

+91-8000013545 , 9898232913, 9724241062  
info@enginoxtech.com | airshuddhi@gmail.com  
www.enginoxtech.in | www.enginoxtech.com  
www.airshuddhi.com

Follow us on: enginox technologies

