

Medical oxygen from industrial nitrogen plants

May 3, 2021

In news: Central Pollution Control Board (CPCB) has identified 30 industries to modify nitrogen plants for the production of medical oxygen.

More about it-

- CPCB with the help of State Pollution Control Boards (SPCBs) have identified such potential industries.
- Some of these plants **can be shifted to nearby hospitals** for supplying oxygen and some plants, where it is not feasible to shift, **can produce oxygen on-site and** compressed and filled in cylinders/special vessels using high pressure compressors for transportation.
- In the existing nitrogen plants, replacing Carbon Molecular Sieve (CMS) with **Zeolite Molecular Sieve (ZMS)** and few other changes such as installation of oxygen analyzer, change in control panel system etc.. oxygen for medical use can be produced.
- With the availability of ZMS, such **modified plant can be set-up in 4-5 days** while installation of new oxygen plants may take minimum 3-4 weeks.
- Recently, **M/s UPL Ltd** converted one 50 Nm³/hr capacity Nitrogen plant to produce oxygen using Zeolite Molecular Sieve, and installed it at L G Rotary Hospital, Vapi(Gujarat).
- It is also under process of conversion of three more plants and on conversion to oxygen plants, these will be installed at hospitals in Surat and Ankaleshwar.

More information-

<https://journalsofindia.com/medical-oxygen/>