



Medical Grade Oxygen (MO₂) Concentrator System: A COVID-19 Driven Research Outcome at CSIR-IIP



Need of Medical Oxygen

- ❖ The Covid-19 pandemic has highlighted the need of distributed MO₂ generation capability for Indian market
- ❖ Medical grade oxygen (MO₂) is a life-saver for COVID-19 patients
- ❖ Medical grade oxygen : 93±3% (Indian Pharmacopeia)
- ❖ Demand 5-20 LPM/ patient (Depending upon the symptoms)
- ❖ In-house generation at MO₂ offers independence from external parties , eliminates the risk and difficulty of handling bulky cylinders

System Highlights

- ❖ Suitable for 24/7 operation in hospitals
- ❖ Scalable design, Process package ready for 6000-30000 LPH Plants
- ❖ Can cater to the need of 5-25 critical patients
- ❖ Deliver O₂ at 3.5 - 4.5 bar_a pressure
- ❖ Small footprint: 50-100 sq. ft.
- ❖ Operating Cost for Medical Grade Oxygen: INR 13/NM³
- ❖ CE and ISO Medical Device Compliance Certification obtained
- ❖ License for production, marketing , sales and service has been transferred to M/s GASKON Engineering, New Delhi