

PM-CARES Fund approves procurement of 150k units of Oxycare System at Rs 322.5 Cr

12 May 2021 | News

DRDO has transferred the technology to multiple industries in India



PM-CARES Fund has accorded sanction for procurement of 1,50,000 units of Oxycare System at a cost of Rs 322.5 crore. It is a comprehensive system developed by the Defence Research and Development Organisation (DRDO) to regulate oxygen being administered to patients based on the sensed values of their SpO₂ levels.

The system has been developed in two Configurations. The basic version consists of a 10 litre Oxygen cylinder, a Pressure Regulator cum Flow Controller, a Humidifier and a Nasal Cannula. The Oxygen flow is regulated manually based on the SpO₂ readings. The intelligent configuration includes a system for automatic regulation of Oxygen through a Low Pressure Regulator, Electronic Control System and an SpO₂ Probe in addition to the basic version.

SpO₂ Based Oxygen Control System optimises consumption of oxygen based on the SpO₂ level of the patient and effectively increases the endurance of portable Oxygen cylinder. The threshold SpO₂ value for initiating flow from the system can be adjusted by the health staff and the SpO₂ levels are continuously monitored and displayed by the system. It reduces the work load and exposure of healthcare providers by eliminating the need of routine measurement and manual adjustments of Oxygen flow, thereby facilitating tele-consultation also.

The automatic system also provides suitable audio warning for various failure scenarios including low SpO₂ values and probe disconnections. These Oxycare systems can be used at Homes, Quarantine Centres, COVID Care Centres and Hospitals.

In addition, Non-Rebreather Masks (NRM) are integrated with the Oxycare Systems for efficient use of oxygen which results in saving of Oxygen by 30-40%.

DRDO has transferred the technology to multiple industries in India who will be producing the Oxycare Systems for use all across India.