

Impact Assessment COVID-19 Relief: Oxygen Concentrators in Tamil Nadu, India

Corporate Social Responsibility Project by
Mahindra & Mahindra Ltd.

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Prepared by KPMG Assurance and consulting
services LLP





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Project Rationale

Tamil Nadu was one of the top five COVID affected states along with Maharashtra, Kerala, Karnataka, and Andhra Pradesh contributing more than 55% of total cases.

Tamil Nadu state saw **34,52,751 confirmed cases and 38,025 deaths** by 31 March 2021.

Severe disruption of essential health services, shortened life expectancy and exacerbated inequities in access to basic health services.

The second COVID-19 wave in India (between March-June 2021), caused havoc with more than **4 lakh cases being reported everyday**.



The use of oxygen concentrators enables hospitals to **provide patients with 90% to 95% pure oxygen** by using technology that filters and concentrates oxygen molecules from ambient air.

COVID-19 cause low oxygen levels and body needs supplemental oxygen & the oxygen cylinders were used to provide support to these severely hypoxic patients.

About the Project

Objective: To strengthen the burdened healthcare amidst second-wave of the COVID-19, Mahindra and Mahindra Ltd. provided 200 oxygen concentrators to district authorities in Tamil Nadu.

Need of Oxygen Concentrators



When the primary source of medical oxygen runs out, oxygen concentrators allow hospitals to produce their own oxygen so that COVID patients will always have a steady supply of oxygen.



While the oxygen cylinders need to be refilled, the Oxygen Concentrators can work 24 x 7. Thus, Critical for treatment of hypoxic patients.



Good-quality oxygen concentrators can provide a sustainable and reliable source of oxygen to multiple patients and easy and convenient to use.



Location:

6 Districts of Tamil Nadu - Theni, Ariyalur, Cuddalore, Thiruvannamalai, Salem, Chengalpet

Importance of Concentrators:

The provision of these devices has had long-term benefits beyond the pandemic.



They were comparatively easier to use and reduced burden on the healthcare workers.



Positively impacted patients during the second as well as recurring waves of COVID-19.



Findings on Project Impact

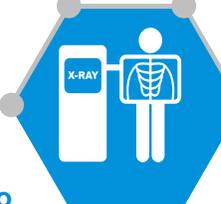
1.

During pandemic, the availability of oxygen concentrators greatly supplemented treatment by providing oxygen to a greater number of patients compared to oxygen tanks.



2.

Use of oxygen concentrators has led to the saving of many lives. Hypoxia (low oxygen supply in the body) is a serious condition that can lead to organ damage and even death if left untreated.



3.

The adoption of oxygen concentrators in healthcare facilities has had long-term benefits beyond the pandemic and can be used to improve healthcare delivery for a range of patients in different settings.



4.

India faces a great disparity in unequal distribution of healthcare facilities in urban and rural areas. Due to this support, community residing in remote locations would continue to benefit hugely & it would save them time which is often life saving.



5.

Availability and use of oxygen concentrators during pandemic resulted in strengthening in public health system.



IRECS Evaluation

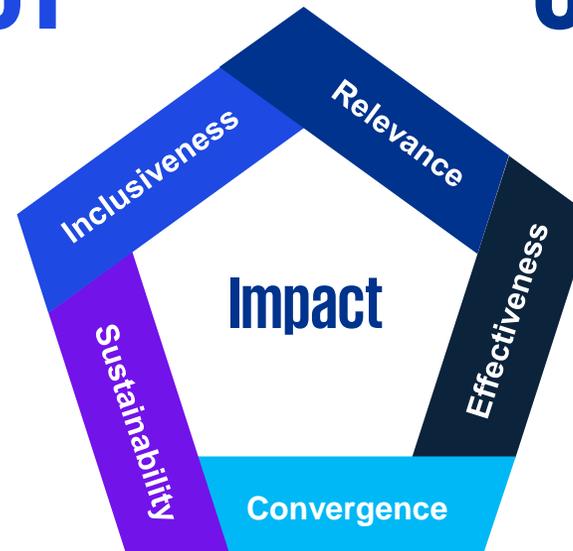
Inclusiveness

- Provision and availability of these oxygen concentrators to government facilities throughout the country ensured that these are available to the larger public.
- Supply to healthcare facilities in some of the remote locations (e.g., Theni) increased reach to populations of such areas.

Sustainability

- Concentrators are being used after the COVID for patients with other illnesses who need Oxygen support.
- Devices provided to the hospitals have a shelf life of 5-10 years, thus making the support sustainable.

01



02

Relevance

- Remote districts in Tamil Nadu faced severe shortfall of medical oxygen infrastructure. Provision of these concentrators ensured strengthening of public health infrastructure, especially during peaks of the COVID-19 pandemic.

03

Effectiveness

- These concentrators had become essential to cater to a larger number of patients, this support was effective in providing adequate treatment with an objective of saving many lives.

04

Convergence

- This support was provided to district government officials, thereby, convergence with government facilities has been an integral part of this project.

Photos



Oxygen Concentrator at Government Hospital Periyakulam, Theni, Tamil Nadu



Patients receiving treatment from oxygen concentrators at Government Hospital Periyakulam, Theni, Tamil Nadu



Thank You

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