

**GOVERNMENT OF ANDHRA PRADESH
HEALTH MEDICAL & FAMILY WELFARE DEPARTMENT**

Order No.119/COVID-19/HMFW/2021,

Date:08.05.2021

COVID Instant Order – 119

Sub: COVID-19 – Second Wave – Oxygen – constitution of State and District War Rooms for unrestricted and uninterrupted supply of Oxygen – Orders – Issued.

It is to inform that the COVID-19 second wave has been wide spread and it is identified that Oxygen is one of the most valuable resources which needs to be procured, transported and consumed with utmost care. It is extremely important to ensure seamless management of Oxygen Supply to the state, from state to the districts and from districts to hospitals & re-fillers and from re-fillers to the hospitals which are the consuming points without any chain break on day to day and hourly basis.

To ensure the unrestricted and uninterrupted supply of Oxygen to the consuming points, a State Oxygen War Room (SOWR) is constituted and all the districts are hereby directed to constitute the District Oxygen War Rooms (DOWR) in the similar lines immediately.

The objectives of the SOWR and DOWR is enclosed.



Principal Secretary to Government

To
The Industries Department,
The Transport Department,
The Revenue & Disaster Management Department
The Police Department
The IT&C Department,
All the Collector & District Magistrates

Encl: Objectives

1. State Oxygen War Room (SOWR)

- 1.1. The State Oxygen War Room is responsible for monitoring the production, storage, transport, distribution, consumption and supply chain monitoring of Medical Oxygen at the State level.
- 1.2. The War room shall function under the supervision of Sri Shan Mohan, IAS, under overall guidance of Principal Secretary, Transport, Roads & Buildings.
- 1.3. The State war room will be headed by IAS/IPS officers for each department on a rotation basis to ensure daily monitoring of all activities and provided with supporting staff.
- 1.4. The War room should have nodal officers from the following departments
 - 1.4.1. Industries Department
 - 1.4.2. Health Department
 - 1.4.3. Transport Department
 - 1.4.4. Revenue & Disaster Management Department
 - 1.4.5. Police Department
 - 1.4.6. IT Dept.
- 1.5. Dedicated 24x7 helpline numbers shall be established to coordinate all activities and provide information to all stakeholders and public

1.6. Responsibilities

- 1.6.1. Industries dept. shall coordinate the overall production and supply of the Liquid Medical Oxygen from the source points as per the Liquid Medical Oxygen (LMO) allocation order issued by Govt of India Dated 05 May 2021. Besides, Industries department shall be responsible to ensure the Oxygen production capacity augmentation in the state by bringing all the related industries into the Oxygen supply chain and making the sick units operational and distribution of Oxygen from the producers to the storage units and hospitals. They shall get converted all Industrial D-type and B-type cylinders to medical oxygen and track each cylinder from filler to the Hospital.

- 1.6.2.** Health Dept. shall compile and share all information regarding Infrastructure like the number of oxygen beds, daily occupancy status, oxygen consumption, requirements etc. from both the government and private hospitals. Health Dept should also ensure that the data regarding current occupancy status, oxygen consumption and the projected oxygen requirement is accurate. There shall be representatives from Drug Control Department which shall be the nodal agency for monitoring the oxygen supply chain management within the Health Department.
- 1.6.3.** Transport department shall be responsible to include as many cryogenic vehicles as possible into the fleet operating in AP's oxygen supply chain. The department shall ensure optimum utilization of the fleet and hence reduce the queueing at Production points and decrease the turnaround times of the vehicles. Transport department is also responsible for taking all the necessary measures like Airlifting, Ro-Ro through Railways, using ISO Cryogenic tankers by rail in order to ensure faster movement of LMO from production points to the state.
- 1.6.4.** Revenue and Disaster management department shall be responsible to give allocation of LMO Vehicles to the districts. The department shall ensure the allocations from various production points viz. from Rashtriya Ispat Nigam Limited (RINL), production units in Orissa, Karnataka, Tamilnadu and any other production points as allotted by Govt of India is done scientifically and taking into account the demand for LMO in each district. This shall be the most crucial activity as there would not be any chance for any ambiguity or mismanagement.
- 1.6.5.** Police Department shall ensure unrestricted transport of the LMO vehicles within and outside the state. They shall ensure that a green corridor is maintained for oxygen vehicles both inside and outside the State. All oxygen vehicles shall travel with police convoy all the time even when they are empty.

1.6.6.IT department shall ensure necessary technical support for implementing an “Oxygen Management Module” which gives seamless access to the SOWR and the DOWRs and further till the consumption points. The department is also responsible to ensure a GPS/GIS mapping of all the production points and the vehicles employed in Oxygen supply chain. The department shall ensure real time capturing of all data pertaining to oxygen management and serving as a monitoring tool and logistics support system for the uninterrupted supply of Medical Oxygen to health facilities during the COVID-19 surge.

2. District Oxygen War Room (DOWR)

2.1 The district war rooms should also be constituted in the same composition as the State War Room. The War room should have nodal officers from the following departments:

- Industries Department
- Health Department
- Transport Department
- Revenue & Disaster Management Department
- Police Department
- District Information Center (DIC)

2.2 Responsibilities

2.2.1 Industries department shall ensure that all the Air Separation Units and any other related industry which can be used in oxygen supply in the districts are operational at full capacities. Nodal officers for each of such units have to be appointed and communicated to SOWR by 10.05.2021

2.2.2 Health dept. should collect the current occupancy status of oxygen beds, ICU beds and ventilators and calculate the daily requirement of Oxygen for each institution. Health dept. shall also project the estimated oxygen consumption based on previous trends and projected number of cases for the upcoming two weeks. The current consumption rate and projected consumption shall be shared with the State War room and the other stakeholders. The department should ensure that the number of beds to be increased only upon assessing the oxygen supplies and informing SOWR about any increase in beds is essential. A

trained team called "Oxygen Savers" has to be developed for every Covid Center to ensure the monitoring of oxygen consumption at the hospital level, ward level and the patient level is done. This activity cannot be an additional work on an existing Nurse or technician. A dedicated team for this activity is mandatory considering the importance of oxygen conservation. The "Oxygen Savers" team for each Covid Center has to be appointed and communicated to SOWR by 10.05.2021. The Oxygen Savers should ensure that the average consumption by any hospital shall be in the optimum range of 20 Liters per minute per Oxygen bed. Any hospital exceeding this average is to be understood as mismanaged. A dedicated nodal officer to check the levels of LMO in storage tankers / availability of Cylinders to be identified and has to be in continuous monitoring by DOWR. The appointment of such nodal officers shall be done and communicated to SOWR by 10.05.2021.

2.2.3 The Transport Department shall be responsible to track the vehicle movement from the Production points to the districts. The GPS tracking system developed by the SOWR may be used for the same. There shall be only one person from the Transport Department in the DOWR who would call up the driver if necessary. No district shall call the driver from multiple numbers. No diversions/obstruction shall be done to any vehicle passing by without the instruction from SOWR. Transport department shall ensure that all the suitable vehicles for Oxygen transport which are available within the district are put into use for district level transportation of LMO. The vehicles which are used to transport the LMO from the production points to the districts shall not be used for distribution of LMO at more than two unloading points within the district. The appointment of such nodal officers from Transport Department shall be done and communicated to SOWR by 10.05.2021

2.2.4 The Revenue department shall be responsible for allotment of the LMO/Cylinders to the final consumption points like refillers/hospitals based on the demand raised by the health department. The department shall plan the allotment logistics such that the vehicle turn-around within the districts to be maximum of 4 Hours by ensure minimum number of unloading points within the district. Prior information would be critical. Revenue Department shall be

responsible to ensure that the LMO coming into the district reaches the right consumer. As there is no luxury any more to send individual vehicles to the Govt hospitals and private re-fillers, any vehicle coming into the district has to be rationed as per the need irrespective of the ownership of the product. A deputy collector rank officer has to be appointed as the nodal officer for this activity and the appointment of such nodal officers shall be done and communicated to SOWR by 10.05.2021

2.2.5 Police Department shall ensure unrestricted transport of the LMO vehicles within and outside the district. It is strongly advised to have an escort part at Visakhapatnam/Bellary – Karnataka/Chennai – Tamilnadu for ensuring smooth movement of the vehicles from production points to the districts. A DSP rank officer has to be appointed as the nodal officer for this activity and the appointment of such nodal officers shall be done and communicated to SOWR by 10.05.2021

2.2.6 DIC Department of the district shall ensure timely updation of the reports and data in the “Oxygen Management Module” developed by the SOWR.

3. SOPs for oxygen management :

3.1. State Oxygen War-room (SOWR) will share the details of all the vehicles dispatched to the districts in a timely manner. We will share the GPS Tracking system log-ins.

3.1.1. Strongly advised to keep an escort at Vizag/Bellary for the vehicles sent to the districts.

3.1.2. Nominate ONLY ONE person who would call up the driver if necessary. No district shall call the driver from multiple numbers.

3.1.3. Green Corridor to be provided by the concerned districts on the request from SOWR

3.1.4. No diversions/obstruction shall be done to any vehicle passing by without the instruction from SOWR

3.1.5. Request you to kindly use police very cautiously and not intimidate the drivers.

3.2. Vehicle Unloading

3.2.1. Vehicle turn-around within the districts to be maximum of 4 Hours.

3.2.2. Ensure minimum number of unloading points within the district. Prior information would be critical.

3.2.3. The DOWR is responsible to ensure that the LMO coming into the district reaches the right consumer.

3.2.4. There is no luxury any more to send individual vehicles to the Govt hospitals and private refillers. Any vehicle coming into the district has to be rationed as per the need irrespective of the ownership of the product.

3.3. Oxygen Management at Hospital Level

3.3.1. No of beds to be increased only upon assessing the oxygen supplies. Informing SOWR about any increase in beds is essential.

3.3.2. Please identify a trained person for every Covid Center and ensure the monitoring of oxygen consumption at the hospital level, ward level and the patient level is done. This activity cannot be an additional work on an existing Nurse or technician. We will need a dedicated person for this activity considering the importance of oxygen conservation. Every hospital shall be reviewed by the JC-incharge of oxygen as to Oxygen received, used, balance available, per bed usage per day so as to ensure efficiency.

3.3.3. Every hospital would be required to maintain the consumption below 20 Litres per minute. Any hospital exceeding this average is to be understood as mismanaged.

3.3.4. A dedicated nodal officer to check the levels of LMO in storage tankers / availability of Cylinders to be identified and has to be in continuous monitoring by DOWR.