

Hospital Survey with for Oxygen Shortage

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ABSTRACT :- In this paper main focus on Oxygen shortage. The COVID running from last one & half year, but still no any concrete solution on over. So such activity going on still today and no any strong action over these matter. COVID 19 is complete, now moving ahead COVID 20 like this situation create. Government taking lot of decision, so many meeting, still lot of scope remain here. Phase 1 complete, then Phase 2 also finish. Now people are ready to face the Phase 3 & Phase 4 again ahead. Some concrete solution need to remove it permanently. In the March & April 2020 death cases are increases due to the oxygen shortage. At the end of April 2021 Maharashtra Government decide to took follow up of oxygen plant & hospital inspection. Over this manner Technical department also the initiate & decide to check the hospital in urban & rural area. Different teams are made to inspect oxygen plant in hospital. According to this team are decided for taking hospital survey. that's why visited in different hospital & collect data which display in this paper.

Keywords :- Hospital, Oxygen Plant, Oxygen cylinder, Inspection Capacity of bed.

1. Introduction :- For the human being to leave the life oxygen is very much important. Without oxygen people can not leave. oxygen is the natural resource but some time more quantity of required, then need to erect special oxygen plant in hospital. To supply the more quantity of oxygen essential to production industry establish for more & more amount of oxygen produce in industry. The numbers of viruses attack on human body but should be prepare. It would to ready for fight to such virus. It has been observed every circumferences human body will be ready for fight with health not possible. So strong health department need. Different field of scientist need to satisfy the environmental condition. In Nagpur city more than 180 hospital are available. Government decide to make the survey of Nagpur city first, then in Nagpur rural. Both survey had been done successfully.

2. Review & Literature :- As visited in different Hospital in Nagpur city, Maharashtra on 2021 April. It is observed that loss of oxygen through tube, mishandling in plant & no management of Oxygen. Unnecessary demand of more oxygen. But some quantity of need of oxygen to fulfill the requirement oxygen called from other country, Metropolitan city. According to this review decide to save the oxygen from steel plant. Reduce the hospital death ratio. Some research papers are collected for oxygen production from steel plant. Paper [1] 2005 basics of oxygen. Paper [2] 2020 A Survey of Disaster Preparedness of Indian Hospitals. In paper [3] & [4] health-care oxygen therapy & administration is given.

3. Objectives :-

- 1) To check the suddenly Death Ratio increase in COVID-19
- 2) Oxygen Cylinder shortage Details take out for research work
- 3) Oxygen Plant inspection.

4. History :- The pandemic situation some times coming on world, but this is the cycle running every 100th of year. In 1920 same situation on world for pal age. Lots of people dead that time & same situation right now. Patient require. In first war 1914-20, second war 1939-45 same situation faced the people. Now war 3 is raised. This is the biological war. Any virus can float in environment & population will control. This concept utilizing here. In future may be numbers of virus will raised in whether for destroy the human being is the strategy of opposite country. But strong tool need of in our hand to control it. How to control the biological war purpose medical science should be ready for that. Only technology not sufficient. One virology laboratory available in America to clarify these problems. Initially nuclear weapons are used in war 1 & 2. This situation has to do the study on biological virus.

5. Case Study :- In the case study, personally visited in different hospital which are listed below. Personally meet to the employers, doctors, operators & collected data over the numbers of beds, numbers of patient, facilities available in hospital. Inspect the oxygen cylinder plant, pipe line & where is the oxygen leakage in plant. How to



operate it, How many numbers of cylinder purchase per day at what time. Noted the name of oxygen supply company. Interact with patient, hospital management, owner. Then collect the data shown in table 1.1

S.N.	Name of Hospital	Capacity of Bed	Death per day
1	Rahate Hospital, Central Avenue Road, Nagpur.	30	2-3
2	Seven Star Hospital, Jagnade Square, Nagpur.	150	12-13
3	Tarangan Hospital, Bhandara Road, Nagpur.	30	13
4	Astha Hospital, Bhandara Road, Nagpur.	24	2-3
5	Radhakrishna Hospital, Wardhman Nagar, Bhandara Road, Nagpur.	150	15
6	Auro Hospital, Hiwari Nagar, Nagpur.	24	2-3

1.1 Table :- List of hospital

6. Experimental Investigation :-

Photographs Shows the actual Observation in Hospital : There are different plant layouts shows in following fig.1 The every Hospital their own layout depending upon the capacity of bed, building arrangement, financial capacity of owner. The arrangements of cylinder, pipeline, safety guards shows in figure. Photographs from hospital which the name indicated in 1.1 Table.



Fig. 1 Oxygen Plant Arrangement

Fig. 2 shows the actual inspection of committee with hospital oxygen plant operator. Here pressure of pipeline different readings, no. of cylinders, name of oxygen cylinder supplying industry noted down. The quantity of cylinder supply to per day basis also take into consideration. Oxygen plant from Seven Star hospital, Radhakrishna hospital.



Fig. 2 Oxygen Plant Inspection

In fig. 3 indicate the numbers of cylinder filled with oxygen per day basis. The photographs from Seven Star hospital.



Fig.3 Oxygen Filled Cylinders

In fig. 4 indicate the numbers of cylinder empty with oxygen per day. Photograph from Radhakrishna hospital.

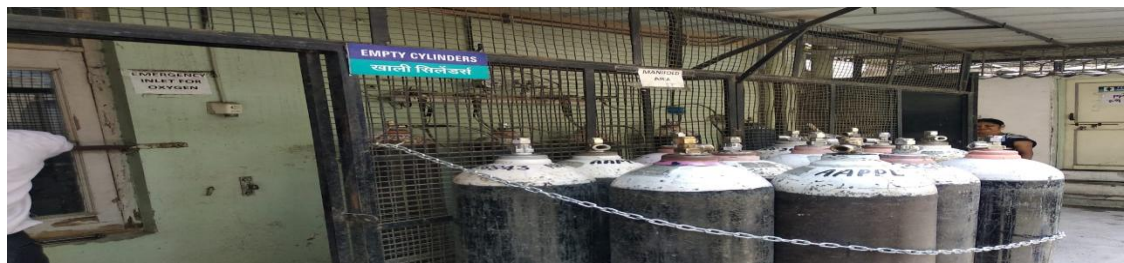


Fig.4 Oxygen Empty Cylinders

In fig. 5 represents the oxygen plant by medical team & Inspection committee members. Photograph from Auro hospital.



Fig. 5 Oxygen Plant Medical Doctors

In fig. 6 shows document verification in hospital. Photograph from Auro hospital.



Fig.6 Oxygen cylinder supply Documents verification

7. Results and Discussion :-

- 1) Suddenly Death Ratio increasing in COVID-19
 - 2) Oxygen Cylinder shortage Details takeout for research work from BSP, Bhilai.
 - 3) Plant Preparation inspection.
- Hence these are objective clear through this survey paper.

7.1. Results :- Demand the oxygen cylinders from other Metropolitan cities, Countries. Enhance the oxygen production rate. New plant erection. Rural hospitals are very week, still they are running. No one taking any action even death ratio is increase.

8. Conclusion :- Oxygen cylinders not properly manage. Oxygen supply line leakage. The cost of oxygen cylinder instantly high.

9. Recommendation future work :-

- 1) Opportunity open the new numbers of oxygen plant.
- 2) Is in ruler areas need to establish the plant.

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