

GOVERNMENT OF INDIA
MINISTRY OF STEEL

LOK SABHA
UNSTARRED QUESTION NO.2269
FOR ANSWER ON 02/08/2021

LIQUID MEDICAL OXYGEN SUPPLY BY STEEL SECTOR

2269. SHRI SRIDHAR KOTAGIRI:
SHRI MAGUNTA SREENIVASULU REDDY:
SHRIMATI CHINTA ANURADHA:
SHRI RANJEETSINGH HINDURAO NAIK NIMBALKAR:
DR. BEESETTI VENKATA SATYAVATHI:
SHRIMATI GODDETI MADHAVI:
SHRI KURUVA GORANTLA MADHAV:
SHRI ARJUN LAL MEENA:
SHRIMATI VANGA GEETHA VISWANATH:
SHRI P.P. CHAUDHARY:
SHRI MANNE SRINIVAS REDDY:
SHRI MANOJ TIWARI:
SHRI M.V.V. SATYANARAYANA:
SHRI KOMATI REDDY VENKAT REDDY:
SHRI KOTHA PRABHAKAR REDDY:

Will the Minister of STEEL be pleased to state:

- the details of total capacity of public sector and private sector steel companies in production of oxygen especially Liquid Medical Oxygen (LMO) in country during the last three years;
- whether the public sector plants provided LMO during the second wave of pandemic and if so, the details of quantities supplied by the public as well as the private sector plants along with their capacity;
- whether the steel production is bound to get impacted since the oxygen used in making of steel is diverted for medical usage and if so, the details thereof since Covid-19 pre and post situation plant-wise;
- the details of supplying oxygen daily for Covid use, State-wise and loss incurred by steel industry/companies so far;
- the measures taken to increase production of LMO in the country in general as well as specifically by public sector and also technical and other policy interventions brought to ease growing demand of LMO; and
- the details of impact created through transportation of LMO from the production sites?

ANSWER

THE MINISTER OF STEEL (SHRI RAM CHANDRA PRASAD SINGH)

(a) The details of total capacity of production of Liquid Medical Oxygen (LMO) of public and private sector steel companies during the last three years are as follows:-

(in tonnes per day)

Year	2018-19	2019-20	2020-21	2021-22
Total Capacity	2492	2494	2748	4102

Contd.....2/-

(b) During the second wave of pandemic, the public and private sector steel plants together supplied 230262 tonnes of LMO between 1st April – 25th July, 2021. The plant-wise details in this regard are given in **Annexure-I**.

(c)to(e): During peak of the second wave, steel sector had enhanced the LMO production considerably. As against 538 MT of LMO supplied on 1st April, 2021, the supply of LMO peaked to 4749 MT on 13th May, 2021. State-wise details of LMO supplied during April-July, 2021 are given in **Annexure-II**. Measures taken by the steel plants to increase production of LMO in the country included the following:-

- (i) Reduced production of liquid Nitrogen and Liquid Argon.
- (ii) Reduced usage of gaseous oxygen thereby reducing steel produced.

The enhanced production of LMO by reducing usage of gaseous oxygen led to reduced production of steel by about 500,000 tonnes during the period April-June, 2021.

(f) The LMO produced in steel plants were supplied to 22 states/UTs as indicated in **Annexure-II** utilizing transportation modes of road, Oxygen express (Railways) and transport aircrafts of the Air Force.

ANNEXURE – I

(in tonnes)

Plant Name	Production Capacity of LMO	LMO Supplied (01.04.21 to 25.07.21)
SAIL Bhilai	40	1661.41
SAIL Bhilai (BOO Plant Linde)	350	21255.04
SAIL Bokaro	20	1399.23
SAIL Bokaro (BOO Plant Inox)	170	10827.94
SAIL Durgapur	43	2449.41
SAIL Durgapur (BOO Plant Linde)	85	6350.9
SAIL Raurkela	48	3424.42
SAIL Raurkela (BOO Plant Linde)	310	18817.36
SAIL Burnpur	70	2334.24
RINL Vishakhapatnam	130	9947.47
Tata Steel Jamshedpur (LINDE)	453	21285.961
TATA Steel Jameshpur (AWIPL)	150	11258.26
TATA Steel Kalinganagar	219	10641.03
TATA Steel BSL	244	8126.35
Jindal Stainless (Hisar) Ltd.	9.5	778.337
Jindal Stainless Limited (Jajpur)	52	3105.88
AMNS HAZIRA (INOX)	240	11865.09
JSW Steel Ltd. Vijayanagar – (Belloxy)	106	8253.03
JSW Steel Ltd. Vijayanagar, (Linde PLC)	537	28023.6
JSW Steel Ltd. Vijayanagar works (Air Water)	100	5891.945
JSW Steel Ltd. Vijayanagar works (IGPL)	130	7184.74
JSW Steel Ltd., Dolvi (Own)	180	13512.3
JSW Steel Ltd., Dolvi (Own 2)	124	9414.23
JSW Steel Ltd., Salem	17	1696.57
Jindal Steel & Power, Angul	100	2963.37
Vedanta ESL, Bokaro.	20	474.44
JSW- BPSL, Jharsuguda	25	718.9
Kalyani Steel, Hospet	130	6600.3
Total	4102	230262

ANNEXURE – II

(in tonnes)

Sl. No.	STATE	LMO Supplied (01.04.2021 to 25.07.2021)
1	Maharashtra	30310.85
2	Madhya Pradesh	11477.19
3	Chhattisgarh	7404.96
4	Andhra Pradesh	30016.79
5	Jharkhand	6137.571
6	West Bengal	15224.03
7	Bihar	4622.83
8	Odisha	12750.9
9	Uttar Pradesh	15080.2
10	Gujarat	7563.24
11	Karnataka	44107.79
12	Telangana	17178.21
13	Tamil Nadu	10725.33
14	Haryana	8419.707
15	Delhi	2136.75
16	Assam	1921.95
17	Kerala	1436.58
18	Goa	715.75
19	Punjab	1842.72
20	Rajasthan	700.45
21	Jammu & Kashmir	18.16
22	Uttarakhand	470.28
Total		230262
