

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
LOK SABHA**

**UNSTARRED QUESTION NO. 1521**

**TO BE ANSWERED ON WEDNESDAY, JULY 28, 2021**

**LIQUID OXYGEN**

**1521. SHRI N. REDDEPPA:**

**SHRI MAGUNTA SREENIVASULU REDDY:**

**DR. BEESETTI VENKATA SATYAVATHI:**

**SHRI LAVU SRI KRISHNA DEVARAYALU:**

**Will the PRIME MINISTER be pleased to state:**

- (a) whether ISRO had provided Liquid Oxygen continuously on a large scale to several State governments from their own manufacturing facilities during the pandemic time;**
- (b) if so, the details thereof of the total quantities of liquid oxygen supplied along with the state-wise break-up thereof;**
- (c) whether ISRO had transferred the technology of Oxygen Concentrators and Ventilators developed in-house to Indian Industry for mass manufacture; and**
- (d) if so, the details thereof and the number of companies that had signed a Transfer of Technology Agreement with ISRO for the same and a state wise break up of these companies?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG &  
PENSIONS AND IN THE PRIME MINISTER'S OFFICE**

**(DR. JITENDRA SINGH):**

**(a) Yes, Medical grade liquid oxygen were supplied to Tamil Nadu, Kerala & Andhra Pradesh based on the request.**

**(b) Total 551 MT of medical grade Liquid Oxygen supplied as follows:**

- 10MT during November, 2020 and 454MT from May to June, 2021 continuously to Tamil Nadu.**
- 57MT from May to June, 2021 to Kerala.**
- 30 MT from May to June, 2021 to Andhra Pradesh in three lots.**

**(c)**

- Yes, Medical Oxygen Concentrator (“SHWAAS”) Technology was transferred to 59 Indian Industries.**
- 52 Industries are shortlisted for transferring ventilators (three categories) technology.**

**(d) State wise break-up for Technology Transfer of Medical Oxygen Concentrator:**

<b>Sl. No.</b>	<b>State/UTs</b>	<b>No. of Industries</b>
<b>1.</b>	<b>Andaman &amp; Nicobar Islands</b>	<b>1</b>
<b>2.</b>	<b>Delhi</b>	<b>5</b>

<b>Sl. No.</b>	<b>State/UTs</b>	<b>No. of Industries</b>
<b>3.</b>	<b>Gujarat</b>	<b>9</b>
<b>4.</b>	<b>Haryana</b>	<b>5</b>
<b>5.</b>	<b>Karnataka</b>	<b>8</b>
<b>6.</b>	<b>Kerala</b>	<b>5</b>
<b>7.</b>	<b>Maharashtra</b>	<b>5</b>
<b>8.</b>	<b>Odisha</b>	<b>1</b>
<b>9.</b>	<b>Punjab</b>	<b>2</b>
<b>10.</b>	<b>Rajasthan</b>	<b>1</b>
<b>11.</b>	<b>Tamil Nadu</b>	<b>8</b>
<b>12.</b>	<b>Telangana</b>	<b>5</b>
<b>13.</b>	<b>Uttar Pradesh</b>	<b>3</b>
<b>14.</b>	<b>West Bengal</b>	<b>1</b>
	<b>Total</b>	<b>59</b>

\*\*\*\*