Advisory to Industrial Establishments for making Industrial Cylinders available.

As you are aware that Jharkhand is currently witnessing the daily increasing number of Covid-19 positive cases and due to increase in the caseload, high proportion of patients are on supplemental Oxygen which has led to a substantial increase in Medical Oxygen requirements in various Covid-19 health establishments across the State. Hence with the increasing number of patients and hospital beds, there is emergent need to supplement additional supply of medical Oxygen through both Medical as well as Industrial cylinders. As we understand that to meet the requirement of oxygen demand for these increasing number of patients, all available medical cylinders in the state may not be adequate.

A significant proportion of Covid-19 positive patients is being treated by various Private hospitals operating in the entire state. Therefore, it is advised to all large, medium and small industrial establishments operating in the state to kindly make Industrial cylinders available with them to these private hospitals on the basis of mutually agreed commercial terms and conditions so that the gap between demand and availability of oxygen cylinders with the private hospitals is fulfilled in the interest of patients in this pandemic without diverting the Industrial cylinders already requisitioned by the undersigned under Disaster Management Act 2005. Further, it is advised to keep sufficient number of Industrial cylinders ready for meeting the demand for government hospitals whenever needed.

Petroleum and Explosive Safety Organisation (PESO), Government of India vide circular no. D-21013/PBL/18-Exp dated 22.04.2021 (Copy enclosed) has issued SOP for converting these Industrial Cylinders into Medical Cylinders.

Therefore, in view of the above it is requested to all the industrial establishments located in the state to make these Industrial cylinders available to the needy private hospitals by following the SOP as referred above and also after fulfilling all other necessary regulatory and legal compliances in order to use industrial cylinders for medical purpose.

All Private hospitals are also requested to coordinate with the concerned industrial establishment for the above.

Date:01.05.2021

Director Industry Oxygen Task Force, Jharkhand Website: http://peso.gov.in Email: explosives@explosives.gov.in दूरभाष/ Telephone : 0712-2510248

फ़ैक्स/ FAX: 2510577

कार्यालयीन उद्देश्य के सभी पत्रादि "मुख्य विस्फोटक नियंत्रक" के पदनाम से भेंजे जाए उनके व्यक्तिगत नाम से नही.

All communications intended for this Office should be addressed to the 'Chief Controller of Explosives' and NOT to him by

संख्या: D-21013/PBL/18-Exp

https://peso.gov.in/index.aspx.

name.



GOVERNMENT OF INDIA

पेटोलियम तथा विस्फोटक सुरक्षा संगठन

Petroleum and Explosives Safety Organisation

(पर्व नाम - विस्फोटक विभाग) (Formerly- Department of Explosives) "ग-ब्लाक ம पाँचवा तल. केन्द्रीय कार्यालय परिसरம். "A" Block, 5th Floor, CGO Complex, सेमिनरी हिल्स, नागपर - 440 006 (महा)

Seminary Hills, Nagpur- 440006

दिनांक /Nagpur, dated : 22/04/2020

CIRCULAR

Sub: Standard Operating Procedures (SOP) for conversion of Industrial Oxygen Cylinders and Inert Gas Cylinders (Nitrogen, Argon & Helium only) to Medical Oxygen Cylinders in the wake of COVID-19 pandemic- reg.

In wake of the outbreak of the COVID-19 pandemic in the country and to ensure uninterrupted supply of Oxygen to hospitals and other health care facilities; DPIIT, Ministry of Commerce and Industry, Government of India has advised PESO to formulate am Standard Operating Procedure for conversion of Industrial oxygen cylinders and Non toxic Non flammable Gas Cylinders (Nitrogen, Argon and helium).

The Industrial gas cylinders Filling Units covered under License Form E & F of the Gas Cylinders Rules, 2016 may convert their industrial and inert gas cylinders to Medical Oxygen Cylinders in their endeavor of national interest.

A copy of the SOP is enclosed herewith. It shall be obligatory to adopt Standard

Operating Procedure (SOP) during the conversion. The copy the same made available in PESO's website:

(M.K. Jhala)

Jt. Chief Controller of Explosives (H.O.D.)

To:

- Shri R.K. Sood, Deputy Secretary Department for Promotion of Industry and Internal 1. Trade, Ministry of Commerce and Industry, Udyog Bhavan, New Delhi: 110 107: For information.
- 2. Heads of Circle and Sub Circle Offices of PESO and Nodal Officers of PESO: They are advised to give wide publicity about the Circular and SOP
- The President, All India Industrial Gases Manufacturers Association, 215, Square One, C-3. 2 District Centre, Saket, New Delhi: 110 017: He is advised to inform the gas cylinder filling plants and persuade for conversion of cylinders duly adhering to the SOP.
- All the Nodal Officers monitoring the inventory of Oxygen and Gas Cylinders: They are 4. advised to note and take necessary action

S O P for conversion of Industrial Oxygen Cylinders to Medical Oxygen

Following procedure is required to be adopted for conversion of Industrial oxygen cylinders to medical oxygen service.

- 1. Cylinder shall be completely degassed.
- 2. Removal of Valve and cleaned with cleaning solution, completely dry and flush with air.
- Cleaning of cylinder internally as well as externally with mild detergent and completely de-grease with cleaning solution (May refer ISO 11621). Organic solvents like carbon tetra chloride should not be used being toxic.
- 4. Cylinders shall be again filled with water/warm water.
- 5. Drain and dry with air.
- 6. During the COVID-19 crisis Industrial Oxygen valves (without chrome plating) may be used and fitted.
- 7. The cylinder shall be painted as required for medical oxygen(IS 3933)
- 8. For any details please refer ISO 11621.
- 9. The cylinders may be converted only at E and F licensed premises.
- 10. Record of converted cylinders shall be maintained in the following format and intimate on mail to seenirai@explosives.gov.in

License No.(E and F)

Cylinder No.	Make	Water capacity	Last Hydrotest date	Valves code/chrome plated Yes/No
				AREA TO THE PROPERTY OF THE PR

SOP for conversion of non toxic and non flammable high pressure industrial gas cylinders i.e Argon, Nitrogen and Helium to cylinders for medical oxygen service during COVID-19 Pandemic.

Following procedure is required to be adopted for conversion:

- I. The Cylinders shall be completely degassed, adequately cleaned from inside and outside, purged and/or evacuated to remove any contaminations like water, oil, hydrocarbons etc., if any after degassing and safe removal of valve. Refer to ISO 11621 for detailed cleaning procedures. Organic solvents like Carbon Tetra Chloride shall not be used as they are toxic.
- II. Ensure that the cylinders have passed last cylinder periodic examination/re-test as per Rule 26 of the Gas Cylinders Rules, 2016. However, the periodic testing of cylinders is extended from 5 years to 5 years 3 Months for those cylinders which are due for statutory hydro testing on 31.03.2020 because of the ongoing COVID-19 pandemic and shall be reverted to 5 years once the Government of India declares that the pandemic is over. The extension of cylinder retest is also applicable to industrial Oxygen cylinders used in medical Oxygen service. The records of such cylinders shall be maintained.
- III. Cylinders shall be fitted with appropriate valves according to the medical gas in line with IS:3224. In this case, change valve with IS 3224 No.20 (3/4 BSP RH External thread) to IS outlet No.3 (5/8 BSP, RH, internal thread) for Oxygen. During the COVID-19 crisis industrial oxygen valves (without chrome plating) may be fitted and used in medical oxygen service since the outlets are identical. Where yoke type valves are needed to be installed for small cylinders, it shall be according to IS 3745.
- IV. Colour-code of cylinders and warning labels shall be according to "IS 3933: Colour identification of gas cylinders and related equipment intended for medical use". This is also applicable to industrial oxygen cylinders which are converted to medical Oxygen service.
- V. These activities shall be carried at the E&F licensed premises only.
- VI. The records of such converted cylinders shall be maintained.
- VII. Record of converted cylinder shall be maintained in the following format and intimated on mail to seeniraj@explosives.gov.in.

Cylinder Filling & Storage license No.

Cylinder Sr.No	Make	Water capacity in (in litres)	Existing service (Argon/Nitrogen/Helium)	Last Hydrotest date	Valve code- Chrome plated (Yes/no)

Federation of Jharkhand Chamber of Commerce & Industries
Main Road Chamber Path Chamber Bhawan, Jharkhand 83400

2. President

Jharkhand Small Scale Industries Association Udyog Bhavan, Koker Industrial Area Ranchi-834001

3. President

Adityapur Small Industries Association, M-5(P), Adityapur-Kandra Road, Adityapur Industrial Area, Jamshedpur.

4. President

Singhbhum Chamber of Commerce & Industry Chamber Bhawan, Bistupur, Main Road, Jamshedpur - 831001

5. President

Singhbhum Industries Association Ramgariah Sabha, Tapti Road, Sakchi, Jamshedpur-831001

6. President

Saraikela Kharsawan District Chamber of Commerce & Industry, Saraikela Dist: Singhbhum (East)

7. President

Small Scale Industries Association Chakulia, East Singhbhum

8. President

Chaibasa Chamber of Commerce & Industries, Sadar Bazar,

Dist: Chaibasa 9. President

Industries and Commerce Association ICO Association Road, Shakti Mandir-Path, Dist: Dhanbad

10. President

Bank More Chamber of Commerce, Katras Road, Dist: Dhanbad.

11. President

Dhanbad Zila Chamber of Commerce & Industries, Dist: Dhanbad

Jharkhand Industries Association, C-5, Central Market, Sector-3, Bokaro Steel City, Bokaro-827003

13. President

Bokaro Chamber of Commerce & Industries, Bypass Road, Chas, Dist: Bokaro

14. President

Jainamore Chamber of Commerce

Chas, Dist.: Bokaro

15. President

Jharkhand Small Tiny Service & Business Enterprises Association, Hind Market Near Hotel Yamuna Villa, Check Post, Chas, Dist: Bokaro - 827013

16. President

Madhupur Chamber of Commerce & Industries P.O. - Madhupur,
Dist: Deoghar
17. President

Santhal Pargana Small Industries Association, Near DAV School, Caster Town, Dist: Deoghar – 814112

18. President

Santhal Pargana Chamber of Commerce & Industries, Jhousagarhi, Dumka Road, Dist: Deoghar - 814112 19. President,

Jharkhand Small & Tiny Industries Association, Shaheed Ashram Road,

Baidyanath, Dist: Deoghar - 814112

20. President

North Jharkhand Chamber of Commerce & Industries, Jasidih, Dist: Deoghar

21. President

Jamtara Chamber of Commerce & Industries,

Dist: Jamtara 22. President

Chamber of Commerce & Industries C/o Sri Gopal Industries, New Town, Jamtara, Dist: Jamtara – 81535

Sahebgani Chamber of Commerce &

Industries, Dist: Sahebganj

24. President

Eastern Jharkhand Chamber of Commerce & Industries,

Dist: Sahibganj 25. President

Giridih District Chamber of Commerce

Saluja House, Netaji Chowk,

Dist: Giridih 26. President

Pakur Chamber of Commerce

Dist: Pakur 27. President

Godda Chamber of Commerce &

Industries, Guljarbagh, Kalali More,

Hatia Chowk, Dist: Godda

28. President

Dumka Chamber of Commerce &

Industries, Dist: Dumka

29. President

Ramgarh Chamber of Commerce &

Industries, Bijulia, Ramgarh,

Dist: Ramgarh

30. President

Chatra Chamber of Commerce & Industries,

Main Bazar, Dist: Chatra

31. President

North Chotanagpur Chamber of Commerce & Industries,

Badam Bazar,

Gola Road, Dist: Hazaribagh

32. President

Hazaribagh Chamber of Commerce Industry

C/o Gupta Steel of Metal- Works

Nababgani, Dist: Hazaribagh

33. President

Associated Chamber of Trade & Industry,

M/s Singhania Traders

Ranchi Patna Road, Jhumritalaiya, Dist: Kodarma

Simdega Chamber of Commerce & Industries, Main Road Simdega Dist: Simdega 35. President

Palamu Chamber of Commerce & Industries, Pradip Kunj Seva Sadan, Daltonganj, Dist: Palamu 36. President

Palamu Jila Vyawasay Sangh Daltonganj, Dist: Palamu 37. President

Lohardaga Chamber of Commerce Dist: Lohardaga 38. President

Latehar Chamber of Commerce & Industries, Thana Chowk,
Dist: Latehar
39. President

Garhwa Chamber of Commerce & Industries, Dist: Garhwa 40. President

Gumla Chamber of Commerce C/o Uma Shankar Saw Mill, Dist: Gumla

41. President

HEC Ancillary Industries Association Tupudana, Ranchi

42. President

Laghu Udyog Bharati Birsa Nagar Near Birsa Chowk, Hatia, Ranchi

43. Secretary

CCL, Ancillary Industries Association RIADA Building, Main Road, Ranchi

44. President

Tecno Entrepreneurs Association BIT STEP, Mesra, Ranchi

Laghu Udyog Bharati M/s Aditya Foods NS-123, Industrial Area, Adityapur, Jamshedpur 831013 46. President

Laghu Udyog Bharati Ranchi District, Ranchi Jharkhand 47. President

Confederation of Indian Industry (CII) 169, Old A G Colony, Kadru, Ashok Nagar, Ranchi, Jharkhand 834002 48. **President**

PHD Chamber of Commerce & Industries Ranchi
49. President

ASSOCHAM, 503/D, Mandir Marg B, Ashok Kunj, Ashok Nagar Ranchi, Jharkhand 834002 50. President

Tribal Indian Chamber of Commerce & Industries
5 A, Ramdev Bagan, Opposite Radha Swami Satsang
Golmuri. Jamshedpur, Jharkhand, India, 83100
51. President

Dalit Chamber of Commerce & Industries Jharkhand
52. President
UDDYAM SHAKTI
Jharkhand
53. President

Jharkhand Refractories Mfgrs. Association, C/o Hotel Sunny, P.O. Chirkunda-828202, Dist: Dhanbad. 54. President

Rice Mill Association Jharkhand

- 55. All Private Hospitals
- 56. All Deputy Commissioners, Jharkhand for information and necessary action.
- 57. Mission Director, National Health Mission, Jharkhand for information and necessary action.