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
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 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 of the same is made available in PESO's website: https://peso.gov.in/index.aspx.

Jt. Chief Controller of Explosives (H.O.D.)
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.
3. 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 seeniral@explosives.gov.in

License No. (E and F)

<table>
<thead>
<tr>
<th>Cylinder No.</th>
<th>Make</th>
<th>Water capacity</th>
<th>Last Hydrotest date</th>
<th>Valves code/chrome plated Yes/No</th>
</tr>
</thead>
</table>
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.

<table>
<thead>
<tr>
<th>Cylinder Sr.No</th>
<th>Make</th>
<th>Water capacity in (in litres)</th>
<th>Existing service (Argon/Nitrogen/Helium)</th>
<th>Last Hydrotest date</th>
<th>Valve code-Chrome plated (Yes/no)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
To,

1. President
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-83400

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
12. President
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
23. President
Sahebganj 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
Nababganj, Dist: Hazaribagh
33. President
Associated Chamber of Trade & Industry,
M/s Singhania Traders
Ranchi Patna Road, Jhumritalaiya, Dist: Kodarma
34. President
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 Vyavasay 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
45. President
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 Mfrs. 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.