



भारत सरकार/Govt. of India  
श्रम एवं रोजगार मंत्रालय  
Ministry of Labour & Employment  
खान सुरक्षा महानिदेशालय  
Directorate General of Mines Safety



No. DGMS Circular (Tech.) No. 54

/Dhanbad, dated 31<sup>st</sup> 1997, 2016

To

**All Owners/Agents/ Managers of Coal and Metalliferous Mines, Superintendents of mines rescue stations, Incharges of mines rescue rooms and manufacturers and suppliers of breathing apparatus.**

**Subject: Cylinders to be used in breathing apparatus used in mines**

Oxygen or compressed air cylinders are integral parts of all breathing apparatus(es). For use in Indian mines closed circuit and open circuit breathing apparatuses are accorded approval by Directorate General of Mines Safety subject to conformation of the apparatus as per standards specified in IS 10245-1 and IS 10245-2 respectively of the Bureau of Indian Standards, among other conditions. It is specified in the above standards that cylinders and valves fitted with the breathing apparatus shall comply with the provisions of the Gas Cylinder Rules, 1981 (presently Gas Cylinder Rules, 2004)

In the Approval Policy, it is stipulated that no change shall be made to the equipment which had been tested for grant of approval unless specifically approved and this is also applicable in case of cylinders used in breathing apparatus(es). In the recent years, different types of gas cylinders are available which are compatible with the breathing apparatus(es). To facilitate use of cylinder other than the ones fitted with the apparatus tested at prescribed test house for obtaining DGMS approval, the following conditions have been laid down which shall also be applicable to the cylinder currently in use:

- (i) All cylinders used with the breathing apparatus shall be approved by the Chief Controller of Explosives, PESO under the Gas Cylinders Rules, 2004.
- (ii) The valves fitted with the cylinders shall comply with the requirements of IS 7302 of the Bureau of Indian Standards as amended from time to time.
- (iii) The colour of the cylinders shall be as specified in IS 3933 of the Bureau of Indian Standards as amended from time to time.
- (iv) A certificate regarding the compatibility of the cylinder for use with the breathing apparatus shall be issued by the manufacturer to the user(s).
- (v) The stipulations made in the DGMS Circular No. 8 of 1974 regarding the material of the cylinder, shall be applicable.

  
Director General of Mines Safety