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कार्यालयीन उद्देश्य के सभी पत्रादि  
"मुख्य विस्फोटक नियंत्रक" के पदनाम  
से भेजे जाए उनके व्यक्तिगत नाम से  
नहीं।

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



भारत सरकार

GOVERNMENT OF INDIA

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन

Petroleum and Explosives Safety Organisation

(पूर्व नाम - विस्फोटक विभाग)

(Formerly- Department of Explosives)

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स्पीड पोस्ट/ SPEED POST

पत्रांक / No R.4(2)79/CC 137/2021

दिनांक / Dated : 10.08.2023

### Circular

To,

All the licensees / fabricators / Competent Persons / Stakeholders related to license in FORM LS-2 of the SMPV (U) Rules, 2016

**Sub: Installation of Rear and Lateral under Run Protective Devices on vehicles for transport of compressed gas in bulk covered under licence in FORM LS-2 of SMPV (U) Rules, 2016.**

Sir (s),

This has reference to the Hon'ble High Court of Calcutta's direction in the WPA No. 17648 of 2021 directing PESO to issue comprehensive SOP or guidelines in consultation with OISD.

In this regard, various meetings were held with the representatives of Bulk LPG transport contractors, President, All India Bulk LPG Transporters Federation, OISD, ARAI, Ashok Leyland, IOCL, BPCL, HPCL, BIS and PESO officers. The details of the same are enclosed as Annexure.

In view of the above, it has been decided that **Rear and Lateral under Run Protective Device** shall be installed for all the vehicles transporting compressed gases in bulk covered under SMPV (U) Rules, 2016.

The SOP/Guidelines for installation of Rear and Lateral under Run Protective Device are given below:

1. All the vehicles already licensed or proposed to be licensed in FORM LS-2 of the Static and Mobile Pressure vessel Rules (U), 2016 shall be provided with Rear and Lateral Under Run Protective Device as per IS-14812(2005)-latest, IS-14682 (2004)-latest, OISD-159 and as per the Central Motor Vehicles (CMV) Rules, 1989 - latest.

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2. The mobile pressure vessels licensed for transportation of flammable and toxic gases shall be de-gassed and purged at PESO approved de-gassing stations prior to installation of above said under run protective device.
3. The fabrication & installation of the Rear & Lateral Under run Protection Devices shall be carried out by the PESO approved pressure vessel fabricators.
4. The existing licensed vehicles in FORM LS-2 of the SMPV (U) Rules, 2016 shall undertake the installation of Rear & Lateral Under run Protection Device while conducting periodical Safety Relief Valve / Hydro testing under Rule 18/19 of SMPV (U) Rules 2016 respectively, whichever is earlier. For this, no fresh prior approval of mounting drawing or amendment in the license is required to be obtained from PESO.
5. The mobile pressure vessel vehicles to be licensed w.e.f. 01/11/2023 under SMPV (U) Rules 2016 shall submit mounting drawings depicting the Rear & Lateral Under run Protection Device as per Rule 124 of CMVR Rules, 1989. For this, the approved fabricators shall obtain necessary approval of the mounting drawing for considering approval by PESO under SMPV (U) Rules 2016.
6. After installation of the Rear & Lateral Under run Protection Device, the maximum weight of the compressed gas for which the vehicle is designed shall not exceed the difference between the maximum gross permissible weight of vehicle by RTA and unladen weight of the vehicle.
7. The competent person shall verify and certify the provision of Rear & Lateral Under run Protection Devices and specify the same in the "Remarks" column of certificate under Rule 18 /19/ 43, as the case may be, issued under the SMPV (U) Rules, 2016.
8. All due safety precautions shall be taken during installation of Rear & Lateral Under run Protection Devices to prevent fire and explosion.

All the stakeholders shall ensure compliance of the above said guidelines without fail for installation of Rear and Lateral under run protecting device.

Encl : As above.



( P. Kumar )  
Chief Controller of Explosives

To

All Circle & Sub-circle offices of PESO.

**Installation of Rear and Lateral under Run Protection Devices (RUPD & LUPD) on vehicles for transport of compressed gas in bulk covered under licence in FORM LS-2 of SMPV (U) Rules, 2016.**

In compliance to the directives of Hon'ble High Court of Calcutta in WPA No. 17648 of 2021 to provide SOP and guidelines for installation of RUPD & LUPD in order to protect the run over of vulnerable road users by large vehicles transporting compressed gases etc., PESO had conducted a meeting through Video Conferencing with the representatives of Bulk LPG transport contractors. President, All India Bulk LPG Transporters Federation, OISD, ARAI, Ashok Leyland, IOCL, BPCL, HPCL, BIS and PESO officers.

- 1) During the meeting, Shri. Khushwant Singh, President, All India Bulk LPG Transporters Federation on behalf of the Writ Petitioner has clarified the following.
  - i) While amending the OISD-STD-159 for incorporating crash guard for LPG vehicles, opinion was not sought from LPG bulk transporters.
  - ii) The Rule 124 of Central Motor Vehicles Rules, 1989 is not applicable to Bulk LPG tank truck.
  - iii) The rear and lateral under run protecting device, if provided shall affect the opening/closing of valves (in the bulk LPG TT valve box) in normal/emergency operation.
  - iv) The installation of 'rear and lateral under-run protecting device' will violate the conditions of the licence issued by PESO for the bulk LPG TT.
  - v) M/s. Total Gas has provided 'rear and lateral under-run protecting device' only in Bulk LPG Tankers having rigid chassis.
- 2) Shri Ranjan Mehrotra, a representative of OISD has submitted a written submission dated 17/02/2022 to PESO against the above points raised by the Petitioner, stating that
  - a. "On finalisation of the draft document of OISD-STD-159, the same was circulated for comments among the Principal Panellists from the oil and gas industry and subsequently to the Safety Council members. The standard was web-hosted for public comments on 01.02.2018. No comment was received regarding provision of under run protecting device. The standard was approved for implementation by the Safety Council, chaired by the Secretary, MoPNG. The Safety Council also includes Chairman/CMDs of oil & gas companies and heads of statutory bodies like Petroleum and Explosives Safety Organisation (PESO), Directorate General, Factory Advice and Labour Institutes (DGFASLI), Directorate General of Mines Safety (DGMS) and others. Moreover, it is important to note that OISD-STD-159 has only sought implementation of rear and under run protecting device as per the Central Motor Vehicle Rule, 1989."
  - b. With regard to applicability of Rule 124 of Central Motor Vehicle Rules, the OISD has stated that "Nothing in Rule 124 of Central Motor Vehicle Rules, 1989 states that the same is not applicable to bulk LPG TT".
  - c. With regard to point at serial no (iii) above, the OISD has clarified that "The rear and lateral under-run protecting device" has already been provided in vast majority of bulk LPG TTs including those in operation in private sector. OISD has not received report of any inconvenience in operation of the valves due to installation of 'rear and lateral under-run protecting device'. Neither there has been any report of incident due to this.

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- d. Installation of 'rear and lateral under-run protecting device' is done on the chassis of the bulk LPG TT and not on the vessel. Hence, the installation of the same does not violate the conditions of the licence which is issued for the mobile pressure vessel.
  - e. With regard to point at serial no. (v) above of Shri Khushwant Singh, the OISD has stated that 'rear and lateral under-run protecting device' has also been provided in Bulk LPG Tankers having trailer chassis.
- 3) With regard to applicability of Rule 124 of Central Motor Vehicle Rules, 1989 for LPG tank trucks, PESO has sought clarification from Ministry of Road and Transport & Highways through email on 19.02.2022. The Director (Transport & IC), MORTH has clarified through email dated 22.02.2022 stating that "RUPD and LUPD are to be provided in accordance with the provisions of the CMVR, 1989 Rule 124 (1-A). There is no exemption to vehicles carrying Hazardous Goods (LPG). Now, VLTD has also been made mandatory".

The above opinion of MORTH clearly indicates that provision of rear and lateral under-run protecting device for LPG Tank Truck vehicles is not exempted.

- 4) Further, IS-14682-2004 of the Indian Standard states that "Vehicles covered by this standard shall be so constructed and equipped as to offer effective protection to unprotected road users against risk of falling under the sides of the vehicle and being caught under the wheels". Nothing in the said standard states that it is not applicable to LPG tank trucks / hazardous goods tank trucks.

In view of the above and in compliance to directives of Hon'ble High Court of Calcutta, it is considered essential to provide Rear and Lateral under Run Protection Devices on vehicles for transport of compressed gas in bulk covered under licence in FORM LS-2 of SMPV (U) Rules, 2016 in the interest of public safety.



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