

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

UNSTARRED QUESTION NO:2370
ANSWERED ON:11.03.2010
EFFICACY OF SAFETY DEVICES
Muttemwar Shri Vilas Baburao;Sule Supriya

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways have assessed the efficacy of various technological gadgets including anti-collision devices installed for safety and prevention of accidents;
- (b) if so, the details thereof; and
- (c) the present status of such gadgets?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF RAILWAYS (SHRI K.H. MUNIYAPPA)

(a) to (c): A statement is attached.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 2370 ASKED BY SHRIMATI SUPRIYA SULE AND SHRI VILAS MUTTEMWAR TO BE ANSWERED IN LOK SABHA ON 11.03.2010 REGARDING EFFICACY OF SAFETY DEVICES.

(a) to (c): Yes, Madam. Technological gadgets such as Anti- Collision Device (ACD), Train Protection Warning System (TPWS) are under trials. Vigilance Control Device (VCD) are under fitment in locomotives, in a phased manner.

The Anti-Collision Device (ACD), developed by Konkan Railway Corporation Limited (KRCL) has been tried as a pilot project on 1736 Route kilometers of Northeast Frontier Railway (NFR). Based on experience on NFR, specifications for ACD have been revised to improve efficacy, reliability and availability of ACD.

Pilot project of Train Protection Warning System (TPWS) on Chennai Central-Gummidipundi section on Southern Railway has been in use since May, 2008 on 38 rakes in the suburban section.

Vigilance Control Device (VCD) for eliminating unsafe situations when driver has become incapacitated or loses alertness have been installed in 315 three phase electric locomotives and 160 conventional electric locomotives after conducting trials and evaluation of its efficacy by Research Design and Standards Organisation (RDSO) of Indian Railways. VCDs have also been installed in 1500 diesel locomotives. It is proposed to install this device on the remaining fleet of diesel and electric locomotives in a phased manner.

An improved version of the ACD system to the revised specifications is now to be developed by KRCL for in-service trials on three zones viz. Southern, South Central and South Western Railways, covering 1600 Route kilometers.

A second pilot project of TPWS for electric loco hauled trains is under installation on Delhi-Agra section of Northern/North Central Railway on nominated locomotives. Trials have been conducted on locomotives and also on empty service rakes, before introduction on trains.