

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

UNSTARRED QUESTION NO:518

ANSWERED ON:11.11.2010

SIGNALLING SYSTEM AT RAILWAY STATIONS

Adhalrao Patil Shri Shivaji;Wankhede Shri Subhash Bapurao

Will the Minister of RAILWAYS be pleased to state:

- (a) the number of railway accidents that have taken place on account of errors in signalling system during the last three years;
- (b) whether the signalling system in operation at many railway stations are outdated and require replacements with modern ones;
- (c) if so, the details thereof;
- (d) the steps taken by the Railways to replace the old signalling systems on all sections progressively;
- (e) the number of sections where modern signalling systems have been installed and the target set for the purpose; and
- (f) the steps taken by the Railways to ensure operational safety pending modernisation of signalling systems in all the sections of Railways?

Answer

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

- (a): There has been two consequential train accidents attributed to signalling system during the past three years.
- (b) & (c): Replacement of Signalling System is a continuous process. The signal equipments on Indian Railway are progressively replaced / upgraded on age cum condition basis and availability of fund.
- (d): Steps taken for replacement of old signalling system on Indian Railway include provision of centralized interlocking system with Multiple Aspect Colour Light Signals, complete track circuiting & Block Proving Axle Counters. On-board Train Protection & Warning System has been sanctioned for 895 Route Kilometers on five Railways viz Eastern, North Central, Southern, South Eastern and Western Railways in addition to 50 Route Kilometers already commissioned on Southern Railway and work in progress on 200 Route Kilometers of Northern / North Central Railways.
- (e): Signalling System on Indian Railways have been modernized progressively by providing centralized Electrical/Electronic Interlocking signaling system at about 4500 stations along with complete Track Circuiting, Block Proving by Axle Counters in about 2400 block sections and LED signals at about 3600 stations. Targets are set on year to year basis as per the availability of fund.
- (f): All existing systems for train operation are by design inherently safe, and they are certified by an independent statutory authority or Research Designs and Standards Organization. Where necessary, appropriate restrictions are imposed so as to ensure safety.