GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA

STARRED QUESTION NO:70
ANSWERED ON:24.07.2003
IMPROVEMENT IN SIGNALLING AND TELECOMMUNICATION SYSTEM
ANANTA NAYAK

Will the Minister of RAILWAYS be pleased to state:

(a)whether there is a need for improvement in the signalling and telecommunication system in Railways in order to avoid increasing train accidents;

(b)if so, the details thereof; and

(c)the steps taken by the Government to improve the signalling and telecommunication system ?

Answer

MINISTER OF RAILWAYS (SHRI NITISH KUMAR)

(a) to (c) A statement is laid on the Table of the Sabha.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO. 70 BY SHRI ANANTA NAYAK TO BE ANSWERED IN LOK SABHA ON 24.07.2003 REGARDING IMPROVEMENT IN SIGNALLING AND TELECOMMUNICATION SYSTEM.

(a) to (c): Signalling and Telecommunication (S&T) system improves safety in train operation. Replacement of overaged signalling assets with modern signalling system of Panel/Route Relay/Electronic interlocking system and induction of following modern signalling system is an ongoing process for improving safety in train operations:

Track Circuiting of station yards.

?Improvement in block communication by replacing over head wires by under ground cables.

Block Proving by Axle Counter.

?Mobile Train Communication System

?Safety Enhancement by providing interlocking and telephone at level crossing gates.

?Continuous Track Circuiting in block section with Automatic Block Signalling for improved line capacity and safety.

?Auxiliary Warning System to prevent a driver from passing a signal at danger. Following major works to modernize and improve signalling and telecommunication system on Indian Railways have been sanctioned.

?Under special Railway Safety Fund (SRSF), replacement of over aged signalling assets at 1494 stations with modern panel/route relay/electronic interlocking system, rehabilitation of overaged signalling assets on `E` & Meter Gauge (MG) routes at 911 stations and safety enhancement through track circuiting at more than 5000 locations has been sanctioned. These works shall be completed in next 4-5 years.

?Provision of continuous track circuiting with automatic block signalling to improve safety has been sanctioned at about 2000 Route Kilometers (RKms). on important sections of Indian Railways during the year 2003-04. The work shall be completed in next 4-5 years.

?Provision of Auxiliary Warning System to prevent driver passing a signal at danger, at about 120 Track Kilometers(TKms)section of Southern Railway is a sanctioned work and shall be completed in next 2-3 years.

?Modernisation of Signalling and Telecommunication equipments by the provision of Solid State Interlockings at all stations on Ghaziabad-Kanpur section, Automatic Block Signalling on Ghaziabad-Aligarh section, Mobile Train Radio Communication (Global System for Mobile Communication-GSM-R) system on Delhi-Mughalsarai section and Optical Fibre Communication system or Ghaziabad-Kanpur section has been taken in hand under KfW (German Loan giving agency) funding. The work shall be completed in next 4 − 5 years.

?Provision of Mobile Train Radio Communication is a sanctioned work on 2415 RKms of trunk routes and shall be completed in next 3 years.

Provision of Anti Collision Device is being undertaken on Indian Railways for preventing collisions.Provision of Anti-Collision Device on about 1800 RKms of Broad Gauge(BG) sections on North-East Frontier Railway is in progress and shall be completed in the year 2004-05. Further works of provision on about 1750 RKms has also been sanctioned on Northern, Southern , South Central and South Western Railways.