

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

UNSTARRED QUESTION NO:3108
ANSWERED ON:11.05.2006
THERMAL SENSOR IN TRAINS
Shiwankar Shri Maha Deo Rao

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways are contemplating to instal thermal censor in trains to check the increasing number of railway accidents in the country as reported in Nav Bharat Times dated March 6. 2006:
- (b) if so. the details thereof;
- (c) whether the technology mission has been prepared in this regard;
- (d) if so, the details thereof;
- (e) whether this technique has been tested successfully;
- (f) if so, the details thereof; and
- (g) the time by which this technique is likely to be installed in trains?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF RAILWAYS (SHRI NARANBHAI J. RATHWA)

- (a) to (d) A project is presently being undertaken for providing `on board diagnostics` on locomotives. This system will have sensors in various locations to measure different performance parameters and make them available to the concerned railway staff. Sensors are being planned for detecting the condition of locomotive axle bearings also. Similar detection of bearing condition of coaches and wagons is proposed to be done through `hot box` detection equipment, which can be provided at suitable intervals along the track. For this also a project for development of `hot box` detection equipment is being undertaken. Both these projects are a part of Technology Mission on Railway Safety, which is being undertaken jointly by the Ministry of Railways and Ministry of Human Resources Development (HRD) and the projects are being executed by Indian Railways R&D Organisation namely Research, Design and Standards Organisation, Lucknow together with Indian Institute of Technology, Kanpur.
- (e) to (f) These are yet to be developed indigenously, after which they will be tested.
- (g) Timeframe of using these technologies can be decided only after the developmental efforts are concluded.