

**Fog safety devices**

908. SHRI N.K. SINGH:

DR. JANARDHAN WAGHMARE:

Will the Minister of RAILWAYS be pleased to state:

(a) whether Railways have adequate fog safety devices to overcome the problem of visibility;

(b) if so, the details thereof;

(c) if not, the reasons therefor;

(d) whether Government is planning to use any better equipment; and

(e) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI K.J. SURYA PRAKASH REDDY): (a) No, Sir. Fog Pilot Assistance System for Safety (Fog Pass) device is under extended performance trials.

(b) and (c) There are issues of reliability and effectiveness to be sorted before this device can be universally adopted for fog safety. The device is under extended trials, during which evaluation and improvement is being done. The details for fog safe device is as under:

Railway	Available	Under Procurement
Northern Railway	670	385
North Eastern Railway	190	110
North Western Railway	124	

(d) Yes, Sir.

(e) **On Board Train Protection and Warning System (TPWS):** A pilot project of 50 Route Kilometres has already been commissioned on Southern Railway. Another pilot project of 200 Route Kilometres is under progress on Northern/North Central Railway.

**Train Collision Avoidance System (TCAS)** Extensive field trials are proposed through Research Designs & Standards Organisation on nominated sections on different type of rolling stock in operation on Indian Railways.