

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

UNSTARRED QUESTION NO:1100
ANSWERED ON:02.03.2015
INTERNET FACILITY
Gaikwad Dr. Sunil Baliram

Will the Minister of RAILWAYS be pleased to state:

- (a) whether it is a fact that a trial run for provision of internet facility in trains was carried out by the Railways and if so, the details of the outcome thereof;
- (b) the present status of the proposal and the progress made so far; and
- (c) the time by which Internet facility is likely to be available in all the trains across the country?

Answer

MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI MANOJ SINHA)

(a) to (c): A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PART (a) TO (c) OF UNSTARRED QUESTION NO. 1100 BY DR. SUNIL BALIRAM GAIKWAD TO BE ANSWERED IN LOK SABHA ON 02.03.2015 REGARDING INTERNET FACILITY

(a) Yes, Madam. Trials for provision of internet facility were conducted in trains with different communication technology, as per details given below:

SN	Technology	Feature	Remarks
1	Mobile communication (2G/3G)	Public mobile network is used in sections having no mobile coverage.	a).Availability is poor b).Throughput (band width available to users) is also less.

Trial conducted in New Delhi-Sealdah, New Delhi-Kalka and Chennai-Bengaluru sections but not successful due to poor connectivity.

2	Worldwide Interoperability for Microwave Access (WiMax)	Access is provided on licenced frequency band. With the help of specially erected line side infrastructure.	a).Capital intensive. b).Outdated technology. Trial conducted in Bengaluru-Chennai section few years back and results were not very encouraging.
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3	Two-way satellite communication	Satellite communication is used with on-board satellite tracking antenna. available during solar outages and in tunnels.	a).Connectivity is good. b).Capital intensive & recurring cost is high. c).Connectivity not available during solar outages and in tunnels. Trial conducted in Mumbai-Ahmedabad Shatabdi few
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years back and 99% connectivity observed.
d). Requires modification in power car for installing the satellite antenna.

4 Two-way satellite Hybrid system a).Connectivity is good. with 2G/3G backup combining two Currently in use in (Hybrid) satellite comm- 12302/03Rajdhani unication and Express. RSDO specs with 2G/3G terrestrial 99.6% availability. (RDSO/network. SPN/TC/96/2010).
b). Requires modification in power car for installing the satellite antenna

(b): As a pilot project, Wi-Fi was provided in 3 rakes of 12301/12302 Howrah Rajdhani Express at a total cost of ` 6.2 crores. A work of Wi-Fi in 50 rakes of prestigious trains was included in Works Programme 2013-2014. Now as phase-I of this work, provision of Wi-Fi facility in Ahmedabad Rajdhani and selected pair of Shatabdi Express (total 6 rakes with spares) is being taken up at an approximate cost of ` 11.03 crores to further evaluate the system and find a cost-effective solution.

(c): There is no proposal to provide internet facility on all trains.