

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
LOK SABHA
UNSTARRED QUESTION NO.2557
TO BE ANSWERED ON 04.08.2021**

MOBILE TRAIN RADIO COMMUNICATION SYSTEM

2557. SHRI SUDHEER GUPTA:

SHRI BIDYUT BARAN MAHATO:

SHRI RAVI KISHAN:

SHRI SUBRAT PATHAK:

SHRI RAVINDRA KUSHWAHA:

SHRI SANJAY SADASHIVRAO MANDLIK:

SHRI PRATAPRAO JADHAV:

SHRI V.K.SREEKANDAN:

SHRI SHRIRANG APPA BARNE:

SHRI CHANDRA SEKHAR SAHU:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether Indian Railways has commissioned Mobile Train Radio Communication (MTRC) System for trains in the country;**
- (b) if so, the details and the salient features of the new communication technology;**
- (c) whether before commissioning of new MTRC the system has already been installed in some rakes of Indian Railways;**
- (d) if so, the details thereof along with the extent to which system has so far been helpful in preventing adverse events and smooth movement of rakes so far;**
- (e) whether there is any proposal to set up MTRC in all the trains operating in the country and if so, the details in this regard;**
- (f) if so, the details thereof along with the expenditure likely to be incurred in setting up of MTRC system; and**
- (g) the details of funds allocated, released and so far utilized for the said purpose, zone-wise?**

ANSWER

**MINISTER OF RAILWAYS, COMMUNICATIONS AND ELECTRONICS &
INFORMATION TECHNOLOGY**

(SHRI ASHWINI VAISHNAW)

(a) & (b) Yes, Sir. Indian Railways have provided Global System for Mobile Communication (Railways) & Terrestrial Trunked Radio (TETRA) based

Mobile Train Radio Communication System (MTRC) over 3460 RKms. Railway-wise details are appended.

MTRC is a secured means of direct communication between Train Crew Controller, Maintenance staff & Station Master at stations. It has features of Location Based Addressing & Functional Addressing.

(c) & (d) In 2002, Analog based MTRC system was installed in 150 cabs / 75 local EMU Trains in Charchgate-Virar sub Urban Section of Mumbai Division of Western Railway.

This System was helpful during bomb blast on Mumbai local trains in the year 2006. The Controller contacted Crew through this system and also made announcements in all cabs to prevent further eventualities.

(e) to (g) Another work of provision of Long Term Evolution (LTE) based MTRC has been approved over 34304 RKMs on Indian Railway at a cost of ₹6860crore. ₹22 crore have been allocated in the current Financial Year.

Utilisation of funds is dependent on roll out of the work. Recently spectrum has been allotted for this.

APPENDIX REFERRED TO IN REPLY TO PART (a) AND (b) OF UNSTARRED QUESTION NO.2557 BY SHRI SUDHEER GUPTA, SHRI BIDYUT BARAN MAHATO, SHRI RAVI KISHAN, SHRI SUBRAT PATHAK, SHRI RAVINDRA KUSHWAHA, SHRI SANJAY SADASHIVRAO MANDLIK, SHRI PRATAPRAO JADHAV, SHRI V.K.SREEKANDAN, SHRI SHRIRANG APPA BARNE, SHRI CHANDRA SEKHAR SAHU TO BE ANSWERED IN LOK SABHA ON 04.08.2021 REGARDING MOBILE TRAIN RADIO COMMUNICATION SYSTEM.

(a) & (b) Status of Mobile Train Radio Communication (MTRC) System based on GSM-R/TETRA over Indian Railways:

S.No.	Section	Railways	Route Kms
1	Howrah-Dhanbad	Eastern	270
2	Dhanbad-Mughalsarai	East central	400
3	Palwal -Jhansi	North Central	353
4	Ghaziabad-Aligarh-Kanpur- ALD-DDU	North Central	760
5	New Delhi-Ambala-Ludhiana Including New Delhi - Palwal and Delhi area	Northern	372
6	Ludhiana-Pathankot-Jammu Tawi-Amritsar	Northern	455
7	Lucknow - Kanpur	Northern	75
8	New Jalpaiguri - Bongaigaon-Guwahati	Northeast Frontier	410
9	New Jalpaiguri-Barsoi-Malda Town & Barasoi-Katihar	Northeast Frontier	270
10	Kolkata Metro	Metro	28
11	East-West Corridor- Phoolbagan to Sector-V	Metro	7.5
12	Churchgate - Virar	Western	60
	Total (Rkms)		3460.5
