

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
STARRED QUESTION NO. 371
ANSWERED ON 04.04.2025

STATUS OF RAILWAY BRIDGES

*371 SHRI ANIL KUMAR YADAV MANDADI:

Will the Minister of RAILWAYS be pleased to state:

- (a) the number of railway bridges in Indian Railways, zone-wise;
- (b) the frequency of inspection of railway bridges, zone-wise;
- (c) the details of permitted speed of trains on these railway bridges, zone-wise;
- (d) the details of difference in speed of trains in normal place and on railway bridges; and
- (e) the details of bridges in which repair/strengthening/rebuilding/rehabilitation has been undertaken since 2022?

ANSWER

MINISTER OF RAILWAYS, INFORMATION & BROADCASTING AND
ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 371 BY SHRI ANIL KUMAR YADAV MANDADI ANSWERED IN RAJYA SABHA ON 04.04.2025 REGARDING STATUS OF RAILWAY BRIDGES.

(a) to (e): As on 01.04.2024, there are 1,63,810 railway bridges on Indian railway network. Zone-wise details are as below:

SN	Railway	Nos. of Bridges
1	CR	10,004
2	ER	5,675
3	ECR	7,968
4	ECoR	12,851
5	NR	21,319
6	NCR	7,081
7	NER	4,923
8	NFR	7,804
9	NWR	7,906
10	SR	17,702
11	SCR	17,956
12	SER	8,193
13	SECR	5,897
14	SWR	9,863
15	WR	10,534
16	WCR	8,134
TOTAL		1,63,810

There is a well established system of inspection of railway bridges on Indian Railways. All the railway bridges are inspected twice a year, one before the onset of monsoon and one detailed inspection after the monsoon. In addition to these inspections, the following inspections are also carried out:

- Based on condition, identified bridges are inspected more frequently.
- Detailed technical inspection of steel girders/composite girders/PSC girders and Bearings at prescribed frequency.
- Underwater inspection of the substructure of bridges which normally remain underwater throughout the year at prescribed frequency.

Railway bridges are assigned numerical ratings based on their physical condition assessed during these inspections.

Repair/strengthening/rehabilitation/rebuilding of railway bridges is a continuous process and is undertaken whenever so warranted by their physical condition as ascertained during these inspections. These works are prioritized based on the numerical rating assigned to the bridges.

Normally permitted speed on the bridges is same as that of sectional speed except in case where speed restriction is imposed on the bridges. Speed restrictions are imposed on bridges if the corrective/remedial measures are expected to take longer duration due to complexity of the site situation, etc. till repair/strengthening/ rehabilitation/rebuilding are completed. All the bridges are safe for train operation at permitted speed.

During 2014-2025 (up to Feb'2025), 14,294 no. of bridges have been repaired/rehabilitated/strengthened/rebuilt which include 6,240 nos. of railway bridges repaired/rehabilitated/strengthened/rebuilt during the period from 2022-23 to 2024-25 (up to Feb'2025).

As on 01.01.2025, 12,152 nos of railway bridges are sanctioned for repairs/strengthening/rehabilitation/rebuilding on Indian Railway.

Since 2014, 27,090 new bridges have been added on Indian Railways' network. Details of bridges constructed across major rivers during the last 10 years are as under:

Sn	Name of River	Details
1	Ganga	6 Bridges at Prayagraj (UP), Phaphamau (UP), Gazipur (UP), Kasganj (UP), Patna (Bihar), Munger (Bihar)
2	Koshi	2 Bridges at Saraigarh (Bihar) and Mansi (Bihar)
3	Yamuna	Bridge at Ait (UP)
4	Brahmaputra	Bogibeel bridge at Dibrugarh (Assam)
5	Chenab	Chenab bridge near Reasi (J & K)
6	Anji	Anji Bridge near Reasi (J & K)
7	Pamban	Pamban bridge at Rameswaram (Tamilnadu)
8	Hooghly	Jubilee Bridge near (West Bengal)

Details of major bridges sanctioned across important rivers are as under:

Sn	Name of River	Details
1	Ganga	3 Bridges at Varanasi (UP), Mokama (Bihar) and Vikramshila (Bihar)
2	Brahmaputra	Saraighat at Guwahati (Assam)

Road Over Bridges/Road under Bridges(ROBs/RUBs)

Sanctioning of works of Road over Bridge (ROB)/Road under Bridge (RUB) in lieu of Level crossings (LCs) is a continuous and dynamic process of Indian Railway. Such works are prioritised and taken up on the basis of its impact on safety in train operations, mobility of trains & impact for road users and feasibility etc.

As on 01.04.2024 there are 17,998 nos. existing ROBs/RUBs (4,341Nos. ROBs & 13,657 nos. RUBs) on Indian Railways.

No. of ROBs/ RUBs constructed on Indian Railways during the period 2004-14 vis a vis 2014-25 (March'25) is as under:

Period	ROBs/ RUBs constructed
2004-14	4,148 Nos.
2014-25	13,201 Nos. (more than 3 times)

As on 01.02.2025, 4,344 Nos. ROBs/ RUBs are sanctioned at cost of Rs. 97,422 Cr on Indian Railways, which are at various stages of planning and execution.

Railways have taken several remedial measures to mitigate the problem of water logging. Adequate drainage arrangements have been made as an integral part of planning for the new Road Under Bridge (RUB)/Subways.

In existing RUBs/subways following remedial measures have been taken as per feasibility, suitability and site requirements:-

- (i) Pumping arrangements have been made in 3,995 nos. subways, as per the requirement.
- (ii) Provision of the cover sheds at 413 Nos. Subways/RUBs has been made and the works for cover sheds at 185 nos. Subways are at different stages of planning and execution.
- (iii) The work of increasing the size of the sump at 333 nos. Subways/RUBs has been completed.
- (iv) Innovative design like subways having provision of combination of openings with different height and different road level in subway has also been implemented at 6 nos. subways.
- (v) Water flow diversion to nearby bridge and nallahs/drains.
- (vi) Provision of hump at entry to subway.
- (vii) Provision of cross drains
- (viii) Sealing of joints by grouts and linings etc.

Tunnel construction

In order to provide the rail connectivity in the hilly region, tunnel construction work have been taken up by Indian Railways in various projects. The details are as under:

Period	Tunnels Constructed
Upto 2014	~ 125 km
2014-2025	~ 460 km
