



GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

Parivahan Bhavan,
1, Sansad Marg
New Delhi-110001

F. No. RW/NH-33044/21/2020-S&R(B)-Part(1)

Dated: 25th June 2026

To,

1. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs dealing with National Highways.
2. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi- 110 010.
3. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
4. The Managing Director, NHIDCL, PTI Building, New Delhi-110001

Subject: Development of Indian Bridge Management System (IBMS) for Collection of Inventory and Condition Survey data of all Bridges on National Highways-reg.

Bridges are vital links of the National Highways network. Safety and performance of bridges is critical for smooth and uninterrupted flow of traffic through the National Highways. As a large number of existing bridges are ageing, regular maintenance of bridges as well as early identification of distresses is essential for preserving the safety and service life of bridges. Therefore, at the network level, it is important to adopt a proactive, scientific and data-driven bridge management system for continuous monitoring and condition assessment of bridges for planning timely interventions as well as prioritisation.

2. With the above objectives, Ministry has undertaken the development of a new Indian Bridge Management System (IBMS) for inventory, inspection, condition assessment and management of all bridges/ structures on National Highways in the country. The IBMS platform has been developed as a mobile-based application for collection of inventory and condition survey for all the bridges/ structures on National Highways. At present, the IBMS platform consists of following modules:

- i. **Inventory module:** It provides digital forms for collection of detailed and comprehensive inventory data of bridges/ structures covering important details of all the bridge components/ elements for various different types of bridges constructed in India as well as other relevant details of bridges like construction data, hydraulic features, traffic data, environmental data etc.

- ii. **Condition survey module** : It provides a systematic framework for bridge inspection and condition assessment through detailed visual inspection and includes digital forms for recording of defects/ distresses along with assignment of bridge element wise condition ratings.
 - iii. **Health index module**: This module utilises the condition survey data for assessment of a Bridge Health Index (BHI) signifying overall structural and functional condition state of the bridge
 - iv. **Priority & Ranking Index module**: This module provides data based prioritisation and ranking of bridge structures which may be used for planning and scheduling of intervention measures for maintenance/ repair/ rehabilitation/ reconstruction of distressed bridges.
3. The data collection through IBMS platform may be carried out by field consultants using mobile/ tablets. There is also a web-based dashboard which can be used by the Ministry as well as its concerned agencies (NHAI/NHIDCL/PWD/BRO) to generate various default and customised inventory and condition reports of bridges in their jurisdiction for monitoring and planning of intervention measures.
4. It has been decided by the Competent Authority that the data collection for all bridges (structures with span length greater than 6 meters) on National Highways shall be carried out by concerned field offices, namely PIU/PMU/NH Division or equivalent field units of custodian authority (NHAI/NHIDCL/PWD/BRO) within their jurisdiction. The field units shall utilise the services of Authority Engineer/ Independent Engineer/ Supervision Consultant/ DPR Consultant available with them, as they are obligated to monitor and report on the maintenance condition and safety of existing highways including existing bridges. **If concerned AE/IE in any project fail to start inventory and condition survey within one month of issuance of this circular, the same shall be considered as breach of obligation and subsequent monthly payments may be suspended.**
5. For NH sections where there is no DPR/ AE/IE available, then firstly services of the EPC contractor or PBMC or STMC contractor may be obtained for the inventory and condition survey in the stretch under their contract.
6. In case action as at para (5) above is not feasible, nearby DPR/IE/AE may be availed or any Bridge Engineer may be engaged for 2-3 months for inventory and condition survey.
7. However, it should be ensured that inspection for condition assessment of bridges must be carried out under the supervision of experienced Bridge/ Structural engineers. Each RO and field unit should appoint a Nodal Officer who shall coordinate the data collection and ensure that the uploaded data is correct by doing random checks/ verification. The details of Nodal Officer shall be communicated by every RO to this office within 10 days of the issuance of this circular.



8. A Central Consultant (stationed at IAHE, Noida) has also been appointed for maintenance of the portal as well as providing training and technical support to the field units in the data collection phase. Further, a manual for field consultant is also issued with this circular, in two parts: (a) Inventory Manual and (b) Condition survey manual, which shall guide the field units in data collection using the IBMS application. In the first instance, inventory data shall be collected for all the bridges. Only after approval of inventory data by the Central consultant, the condition survey data ('Detailed Visual Inspection' form in the IBMS portal) can be filled. The field agencies may utilise the services of MBIUs/ Unmanned Aerial Systems (UAS)/ Drone technology for the inventory and condition survey of bridges, especially for inaccessible bridge components.

9. It shall also be noted that the concerned field units shall be responsible for correctness of uploaded data in the portal. Further, concerned Executive Engineer/ Project Director/In-charge of PIU/PMU/NH Division or equivalent must verify the inventory and condition survey data of at least 7% of the bridges in their jurisdiction. Further, concerned Regional Officers of NHAI/NHIDCL/MoRT&H must also verify the condition survey data of all the bridges with overall length of more than 500 metres under their jurisdiction.

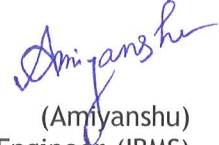
10. It has also been decided that henceforth in all projects pending completion, executing agencies must ensure that inventory and condition data of all the bridges shall be mandatorily filled in the IBMS portal along with the submission of as-built drawings. Further, all DPR Consultants shall mandatorily input the inventory and condition data of all the existing bridges in the IBMS portal.

11. The URL for IBMS website with the dashboard is: <https://ibms.morth.gov.in>. The dashboard can be accessed through user IDs/passwords created for all ROs/ PIUs and HQ officers. Further, the mobile-based app for data collection can be downloaded from the URL: <https://ibms.morth.gov.in/apk/download/> and subsequently shall be made available on the Google playstore/ Apple store soon. The user IDs/ passwords for concerned field consultants/ field officers shall be created by Central Consultant upon request by concerned ROs through email at ibms-morth@gov.in. For any assistance the following contact persons of the central consultant may be consulted:

- i. Shri G.C. Jha (8121024854) for technical queries (gc.jha.ibms@aarvee.net)
- ii. Shri Gyanendu Sharma (9652893366) for IT related queries (ibmssupport@gov.in)

12. All ROs of NHAI/NHIDCL/Ministry must ensure that the inventory and condition survey data collection of all bridges under their jurisdiction is completed latest by 30.09.2026. The progress of data collection shall be reviewed by the Ministry in the Senior Officers Meeting.

13. The contents of this circular shall be brought to the notice of all concerned in your organisation.



(Amiyanshu)
Executive Engineer (IBMS)
For Director General (Road Development) & SS

Copy to:

1. All Technical Officers in the Ministry of Road Transport & Highways
2. All ROs of the Ministry
3. The Secretary General, Indian Roads Congress
4. The Director, IAHE
5. Technical circular file of S&R (B) Section
6. NIC-for uploading on Ministry's website under "What's new"

Copy for kind information to:

1. Sr. PPS to Secretary (RT&H)
2. Sr. PPS to DG (RD) & SS
