



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways, Government of India)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075 • G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष/Phone : 91-11-25074100 / 25074200



NHA / Policy Guidelines /IT / 2025

Policy Circular No.6.41/2025 dated 07th April, 2025

{Decision taken on E-Office File No. ITDIV-14023/1/2025-IT Division (Comp. No. 279039)}

Sub: Implementation of Bridge Inventory and Condition Rating System (BICRS) for Recording Asset and Health of Structures of all Projects - reg.

To ensure the Systematic Management and Safety of its Infrastructure Assets, the Bridge Inventory and Condition Rating System (BICRS) is developed based on the inputs received from Design Division. The System, accessible through NHA One and the Datalake Platform, Enables Comprehensive Recording, Assessment, and Bi-annual Inspection of Bridge Structures across of all Projects.

2. The Key Features of BICRS will be as under:-

a) Inventory of Structures:

- Establishment of a unified repository of all Structures, each assigned with a Unique Asset Identification Number.
- Comprehensive Recording of Structural Specifications, Geographical Coordinates, AS-IS Drawings and related Documentation.

b) Condition Assessment:

- Systematic evaluation of Structural Health based on Predetermined Rating Parameters.
- Identification of Structures that require immediate Remedial Measures, including the imposition of Traffic Restrictions or Suspension of Heavy Vehicle Movement, as applicable.

c) Inspection and Reporting:

- Consolidation of historical inspection data, condition ratings, recommendations, and maintenance requirements into a centralized dashboard.

3. The BICRS module is demonstrated during the Executive Committee (EC) meeting held on 18.03.2025, and it was decided to launch the System.

4. The Authority Engineer (AE)/ (Independent Engineer) shall Record one-time Structural Specifications Details of all Projects, under their jurisdictions, on BICRS Platform using NHA One app. and AS-IS Drawings and related Documentation can be uploaded on Data Lake Portal. The First Inspection of Structures must be completed, using NHA One App., prior to the upcoming Monsoon Season. Thereafter, Bi-annual Inspections will be mandated to maintain updated records on the System.

5. PD shall have to cross check the Data Recorded by AE/ IE during their monthly Physical Inspections and highlight their Comments, if any, or discrepancies between the recorded and Ground Reality. In addition, the PDs shall have to mandatorily carry out Inspections and Record the Structure Health Condition on NHA One app. itself, within 15 days, for Structures rated 1 to 3 by the AE/IE. If the PD also assigns a rating of 1 or 2, a Re-inspection/ Remarks from the RO shall be required.

Contd...2/-

6. The detailed Standard Operating Procedure (SoP) to facilitate all NHAI One and Data Lake Users will be available in Data Lake Helpdesk Menu for easy Reference and Guidance. In case of any Assistance, the Data Lake Helpdesk Team may be contacted on 011-25074100/ 200 [Ext: 3026/ 3028/ 3037]. The Capacity Building Session of all Stakeholders will be held shortly.
7. All ROs/ PDs shall ensure that all the concerned Stakeholders are well acquainted with BICRS System and mandatorily adopt this System w.e.f. 7th April 2025.
8. This issues with the approval of Competent Authority.



(CS. Sanjay Kumar Patel)
I/c Chief General Manager (Coord.)

To:

1. All Officers of NHAI HQ/ ROs/ PIUs/ CMUs/ Site Offices
2. Data Lake Team - Program Manager
3. NHAI One Team - Project Manager

Copy to:

1. Hindi Division for translation in Hindi.
2. Library for hosting the circular on library site.
3. Web Admin for circulation.