



सत्यमेव जयते

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)

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Office Memorandum

Sub: Circulation of "Compendium of Expert Committee Reports on Structural & Pavement Incidents/Issues: Key Learnings"

A compendium has been prepared through compilation of 27 inspection reports/studies of Expert committees in last three years of major highway projects under the National Highways Authority of India, which provides a comprehensive repository of real-world challenges in civil engineering infrastructure development.

(Compendium: <https://drive.google.com/file/d/1nSE3S6MdH5nWPWMFNmrRstuqf87jBP2Z/view?usp=drivesdk>)

2. Spanning bridges, tunnels, flyovers, underpasses and pavements across various states, these cases cover some collapses leading to casualties, geotechnical failures and maintenance oversights and also some proactive inspections. The key learnings, outcomes, and recurring issues have been synthesized to serve as a foundational guide for Engineers, Project Managers, and Policymakers engaged in construction of National Highways. This summary distills the essence into actionable insights, highlighting patterns that underscore the need for rigorous engineering judgment and systemic improvements. The emphasis is on preventing future incidents through enhanced supervision, adherence to standards and proactive risk management.

3. The contents of the compendium are summarized as follows:

- (i) Categorization of case studies into Structures, Reinforced Soil Wall, Tunnel and Pavement.
- (ii) Root causes and Key Issues for the failures
- (iii) Recommendations and Action Plan
- (iv) Key Learnings

4. Regional Offices and Project Directors shall share the Compendium with all Contractors/Concessionaires and Consultants associated with ongoing and completed projects under their jurisdiction.

5. All recipients shall familiarize themselves with the key learnings, recurring issues and recommendations contained in the Compendium and integrate relevant measures into project SOPs, quality management plans, design/drawing reviews, construction method statements, site supervision checklists and maintenance protocols.

(P.N. Gawasane)

General Manager(T)- SRD&Q & Haryana

Encl.: As Above.

Copy to:

- All NHA Officials
- All Contractors/Concessionaires
- All Consultants/IEs/AEs