

**Government of India**  
**Ministry of Road Transport & Highways**

Parivahan Bhawan  
1, Parliament Street,  
New Delhi- 110001

No RW-NH- 33044/24/2015-S&R (R)

Dated the 09<sup>th</sup> November, 15

To

1. The Chief Secretaries of all State Governments/Union Territories
2. The Principal Secretaries /Secretaries of all States/U.Ts. Public Works Department dealing with National Highways, other Centrally Sponsored Schemes and State Schemes.
3. The Engineers-in-Chief and Chief Engineers of Public Works Departments of States/U.Ts dealing with National Highways, other Centrally Sponsored Schemes and State Schemes.
4. The Chairman, National Highways Authority of India, G-5&6, Sector-10, Dwarka, New Delhi-110 075
5. Managing Director, NHIDCL, Room No 101, Parivahan Bhavan, 1.Parliament Street, New Delhi, 110001
6. Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.

**Sub: Use of plastic waste in bituminous mixes in construction of National Highways**

With the rapid urbanization, a large quantum of plastic waste is being generated. Safe disposal of the plastic waste is a serious environmental problem. Studies have revealed that use of waste plastic improves the desirable properties of bituminous mixes leading to improved longevity and pavement performance. The Indian Roads Congress (IRC) has already published IRC: SP: 98-2013 "Guidelines for the use of waste plastic in hot bituminous mixes (dry process) in wearing coats". However, this technology continues to receive lukewarm response by the Project Engineers, Designers as also the Consultants. Its adoption needs to be encouraged.

2. Therefore, the Ministry has decided to encourage use of plastic waste in the hot mix bituminous wearing coat. Accordingly it is decided that;
  - a) Bituminous mix with waste plastic shall be the default mode for periodic renewal with hot mixes within 50 kms periphery of urban area having population more than 5

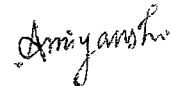
lakhs. Any relaxation on ground of non-availability of waste plastic, cost etc shall involve approval of the Ministry.

b) All the agencies responsible for preparation of project reports / estimates for the National Highways and Centrally sponsored works are expected to analyse and clearly bring out reasons of inclusion or otherwise of provision of use of waste plastic in wearing coats in the proposal.

3. The contents of this Circular may be brought to the notice of all concerned in your Organization. Feedback on these guidelines is solicited.

4. This issues with the approval of competent authority.

Yours faithfully,



Assistant Executive Engineer (S,R&T) (Roads)  
For Director General (Road Development) & Spl Secy

Copy to:

1. PS to Hon'ble Minister (RTH&S) – for kind information
2. Sr. PPS to Secretary (RT&H) – for kind information
3. PS to DG (RD) & SS
4. PPS to SS&FA – for kind information
5. All Technical officers in the Ministry of Road Transport & Highways
6. All ROs and ELOs of the Ministry of Road Transport & Highways
7. The Secretary General, Indian Roads Congress
8. The Director, IAHE
9. Technical Circular File of S&R Section
10. NIC for placing on the website under "What's New"