

No. RW/NH-33044/3/2001/S&R(R)

Dated the 9th December, 2002

To

The Secretary of all States/UTs (in charge of PWD), The Engineer-in-Charge and Chief Engineers of State PWDs and UTs (dealing with National Highways), The Director General (Border Roads), The Chairman, National Highways Authority of India.

Subject: Use of Rubber Polymer Modified Bitumen in Road Works

Reference is invited to Ministry's letter No.RW/NH-34041/36/90/S&R (Vol. III) dated 21st August, 2000 (copy enclosed) on the subject mentioned above vide which a list of manufacturers/suppliers of modifier and modified bitumen appended was for information and guidance of the user agency and it was clarified that the list of manufacturers/suppliers of modifier and modified bitumen appended was for information and guidance of the user agency/agencies. Circulation of the list should not be taken as this Ministry's endorsement of the product. It was also informed that no further list of suppliers would be circulated and the suppliers

were required to get the material tested at their cost by reputed Central/State Research Organisations/ Institutions appended with the above letter.

2. Some manufacturers of modifier/modified bitumen have brought to the notice of the Ministry that user agencies are not procuring their product as these are not included in the above said list although their products have been tested by reputed Central/State level institutions or academic institutions having adequate facility of testing of modified bitumen. It is reiterated that circulation of the list of manufacturers/suppliers with Ministry's letter dated 21.8.2000 is neither an endorsement of their product nor the list has any approval whatsoever and this was circulated merely for information and guidance of the user. Accordingly it is advised that henceforth all suppliers/manufacturers of modifier/modified bitumen including those included in the list circulated with Ministry's letter dated 21.8.2000 may be asked if not already done to get their product tested by any institution given in Annexure II of Ministry's letter No. RW/NH-34041/36/90-S&R dated 21.8.2000. It is clarified that all suppliers/manufacturers of modifier/modified bitumen whether included in the list circulated with Ministry's letter dated 21.8.2000 or not must be considered at par for the purpose of procurement of modifier/modified bitumen for use on National Highways or Centrally Sponsored Schemes.

3. It shall be the responsibility of the contractor as well as the user Organisation to get themselves satisfied about the quality of modified bitumen before procurement from suppliers and use in work to ensure that the same conforms strictly to provisions of IRC SP-53-1999.

The content of the circular may please be brought to the notice of all concerned.

(Enclosure to Ministry's Circular No. RW/NH-33044/3/2001/S&R(R) dated the 9th December, 2002)

Copy of Ministry of Road Transport & Highway letter No. RW/NH-33041/36/90/S&R(Vol. III) dated the 21st August, 2000 addressed to the Engineer-in-Chief and Chief Engineers of State PWDs and UTs, The Chief Engineers of States and UTs (dealing with NHs), The Chairman, National Highways Authority of India, D.G. (Border Roads).

Subject: Use of rubber and polymer modified bitumen in Road Works.

Ministry's letter of even number dated 5.6.2000 on the subject inter-alia includes a list of suppliers of rubber/polymer modified bitumen. In supersession of the earlier list, an updated list of manufacturers/suppliers of modifiers and modified bitumen is appended herewith for information and guidance of the user agencies (**Annexure-I**). All other terms and conditions of the circular dated 5.6.2000 remain unchanged. The circulation of the list of suppliers/manufacturers should not be taken as endorsement of the product by the Ministry. Henceforth, no such list of suppliers will be circulated. The suppliers at their cost shall get the material tested by reputed Central and State Level Research Institutions or academic institutions having adequate facilities of testing. A list of such Institutions is enclosed at **Annexure-II**. It shall be the responsibility of the user agencies to get themselves satisfied about the quality of modified bitumen before procurement from suppliers and use in work to conform strictly to provisions in IRC:SP-53-1999.

The content of the circular may please be brought to the notice of all concerned.

(Enclosure to letter No. RW/NH-34041/36/90-S&R(Vol.III) dated 21.8.2000)

ANNEXURE-I**LIST OF FIRMS PRODUCING PMB OR SUPPLYING POLYMER FOR MODIFICATION
ALONG WITH INDICATION OF THE TYPE OF POLYMER USED/SUPPLIED BY THEM**

Sl.No.	Name of supplier/manufacturer	Type of modifier
1.	M/s M.K. Petro Products (P) Ltd., LG-5, Thapar Chamber-II, 6 B Opp. Kalindi Colony, Ring Road, New Delhi-110014	Plastomer (EVA) Modified Bitumen
2.	M/s Osnar Chemicals (P) Ltd. T. Industries Estate, Sewree, Mumbai-40001.	Plastomer (EVA) Modified Bitumen
3.	M/s Yegnan & Co., 101, Agarwal Chamber-IX Plot No. 102, Sector-19, APMC Complex, Vashi, Navi Mumbai-400705.	Plastomer (EVA) Modified Bitumen
4.	M/s Solid Asphalt Industries, Plot No. 42, Sector-I, Sion-Panvel Highway, Neral, Navi Mumbai-400705.	Plastomer (EVA) Modified Bitumen
5.	M/s Tiki Tar Industries, 8th Floor, Neptune Tower, Productivity Road, Vadodra-390005.	Elastomer (SBS) Modified Bitumen
6.	M/s Cochin Refineries Ltd., Post Bag No.2, Aambalamugal-682302 Distt. Ernakulam, Kerala.	Natural Rubber Modified Bitumen
7.	M/s Chennai Petroleum Corporation Limited (Formerly Madras Refineries Ltd.) Menali, Chennai-600068.	Crumb Rubber Modified Bitumen
8.	M/s Tinna Overseas Limited A-151, Mayapuri Industrial Area, Phase-II, New Delhi-110064.	Chemically Treated Crumb Rubber Modified Bitumen

LIST OF INSTITUTIONS FOR TESTING POLYMER MODIFIED BITUMEN

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| 1. | Central Road Research Institute (CRRI)
Delhi-Mathura Road, P.O. CRRI, New Delhi-110020 | |
| 2. | Department of Civil Engineering,
Indian Institute of Technology,
Kharagpur, West Bengal | |
| 3. | Bitumen Laboratories,
Indian Institute of Petroleum (CSIR)
Haridwar Road, Dehradun (Uttaranchal) | |
| 4. | Highway Research Station,
Gandhinagar, Chennai (Tamil Nadu) | |
| 5. | Department of Civil Engineering,
Bangalore University, Bangalore, (Karnataka) | |
| 6. | Gujarat Engineering Research Institute,
Vadodara, Gujarat. | |
| 7. | Department of Civil Engineering,
University of Roorkee,
Roorkee, (Uttaranchal). | |
| 8. | Indian Oil Corporation,
R&D Centre, Sector-30, Faridabad. | |
| 9. | M/s. E.I. Du Pont India Ltd.
701-724 Bonanza, 7th Floor, B-Wing,
Andheri (East), Mumbai-400059. | Plastomer
(Ethylene Terpolymer) |
| 10. | M/s. Usha Lubes (P) Ltd.
6 A&B, Poonam, 6th Floor,
5/2 Russel Street, Calcutta-700071 | Plastomer (Low Density
Polyethylene)
Modified Bitumen |
| 11. | M/s. Gurusons International (P) Ltd.
108, Southex Plaza-I, South Extension-II,
New Delhi-110049. | Rubber (SBR)
Modified Bitumen |
| 12. | M/s. ATV Projects India (P) Ltd.,
D-8, MIDC Street-16, Mahul,
Andheri (East), Mumbai-400093. | (SBS) |
| 13. | M/s. National Organi Chemicals Industries Ltd.,
Thane-Belapur Road, P.O. Ghasoli,
Navi Mumbai-400701. | (EVA) |
| 14. | M/s Shell India (P) Ltd.,
S-3 International Trade Tower,
Nehru Place, New Delhi-110019. | (SBS) |
| 15. | M/s Indian Petrochemical Corporation Ltd.,
P.O. Petrochemicals, Vadodara-391346. | (LDPE) |
| 16. | M/s. ELF Atochem, Gandhi Mansion,
20 Altamount Road, Mumbai-400026. | (EVA) |
| 17. | M/s. Apcotex Lattices Limited,
49-53, Mahavir Centre, Plot No. 17,
Sector-17, Vashi, Navi Mumbai-400073. | (SBR) |