

No.RW/NH-34041/36/90-S&amp;R(Vol.III)

Dated, the 21st August, 2000

To

The Engineer-in-Chief and Chief Engineers of State PWDs and U.Ts; Chief Engineer of States and U.Ts. (dealing with National Highways); Chairman, National Highways Authority of India; Director General 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 materials 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 Ministry's Circular 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-400015	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, 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

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|-----|---|---|
| 6.  | M/s. Cochin Refineries Ltd,<br>Post Bag No.2, Aambalamugal<br>682302Distt.<br>Ernakulam (Kerala)  | Natural Rubber<br>Modified Bitumen                          |
| 7.  | M/s. Chennai Petroleum Corporation Limited<br>(Formerly:Madras Refineries Ltd) Menali,<br>Chennai-600068  | Crumb Rubber<br>Modified Bitumen                            |
| 8.  | M/s. Tinna Overseas Limited,<br>A- 151, Mayapuri Industrial Area, Phase-II,<br>New Delhi-110064   | Chemically Treated<br>Crumb Rubber<br>Modified Bitumen      |
| 9.  | M/s. E.I. Du Pont India Ltd.,<br>701-724 Bonanza, 7th Floor, B-Wing.<br>Sahar Plaza Complex, Andheri-Kurla Road,<br>Andheri (East), Mumbai-400059 | Plastomer<br>(Ethylene Terpolymer)<br>Modified Bitumen      |
| 10. | M/s. Usha Lubes (P) Ltd.,<br>6 A&B, Poonam, 6th Floor,<br>5/2 Russel Street,<br>Calcutta-700071   | Plastomer (Low Density)<br>Polyethylene<br>Modified Bitumen |
| 11. | M/s. Gurusons International (P) Ltd.,<br>108, South Extension-II,<br>New Delhi-110049   | Rubber (SBR)<br>Modified Bitumen                            |
| 12. | M/s. ATV Projects India (P) Ltd.,<br>D-8-MIDC Street-16, Mahul,<br>Andheri (East), Mumbai-400093  | (SBS)   |
| 13. | M/s. National Organi Chemicals Industries Ltd.,<br>Thane-Belapur Road,<br>P.O. Ghasoli, Navi Mumbai-400701  | (EVA)   |
| 14. | M/s. Shell India (P) Ltd.,<br>S-3 International Trade Tower,<br>Nehru Place, New Delhi-110019   | (SBS)   |
| 15. | M/s. India Petrochemical Corporation Ltd.,<br>P.O.Petrochemicals,<br>Vadodara-391346  | (LDPE)  |
| 16. | M/s. Elf Atochem, Gandhi Mansion,<br>20 Altamount Road,<br>Mumbai-400026  | (EVA)   |
| 17. | M/s. Apcotex Lattices Limited,<br>49-53, Mahavir Centre,<br>Plot No. 17, Sector-17, Vashi,<br>Navi Mumbai-400073                                  | (SBR)   |

[Enclosure to Ministry's Circular No. RW/NH-34041/36/90-S&R(Vol-III) dated 21.8.2000]

Annexure-II

# LIST OF INSTITUTIONS FOR TESTING POLYMER MODIFIED BITUMEN

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 (U.P.)
4. Highways Research Station,  
Guindy, 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 (U.P.)
8. Indian Oil Corporation,  
R&D Centre, Sector-30,  
Faridabad

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No. RW/NH-34041/36/90 S&R (Vol. III)

Dated, the 5th October, 2000

To

The Engineer-in-Chief and Chief Engineers of State PWDs and U.Ts; Chief Engineers of States and U.Ts. (dealing with NHs); Chairman, National Highways Authority of India; Director General Border Roads

Subject : Use of rubber and polymer modified bitumen in road works

It has been brought to the notice of the Ministry that Executing Agencies/State PWDs are specifying only one type of polymer modified bitumen while issuing the tenders for National Highways work. In this connection kind attention is drawn to Para 4 of Ministry's letter No. RW/NH-34041/36/90-S&R(Vol-II) dated 5th June, 2000, wherein it was advised to use more than one type of modifiers for comparison purposes and feedback related to economics of using different modifiers compared to conventional bitumen and their comparative field performances may be reported to the Ministry.

As suitability/superiority and economics of one modifier over the other could not be established so far on any research back up, it is again advised that to establish the comparative economics as well as suitability of different modifiers under different environment/traffic conditions, the tender documents should not specify any particular type of bitumen modifier and the instructions of the Ministry outlined in Para 1 may be followed. This may please be brought to the notice of all concerned in your Department.