



GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

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No. RW/NH-34057/1/2002-S& R (B)

Dated 22<sup>nd</sup> June 2010

To

1. The Chairman, National Highways Authority of India, G-5 & G-6, Sector-10, Dwarka, New Delhi- 110 045.
2. The Director General (Works), Central Public Works Department, Nirman Bawan, New Delhi - 110 001.
3. The Director General (Border Roads) Seema sadak Bhavan, Ring Road, Delhi Cantt, New Delhi-110 010.
4. All Chief Engineers of States/Union Territories/Public Works Department/Road Construction Department/Highways Departments (dealing with National Highways and other Centrally sponsored schemes).

**Subject:** Empanelment of manufacturing firms / authorized suppliers of bearings for bridges on National Highways and other centrally sponsored schemes.

Sir,

This letter supersedes this Ministry letter of even Number dated 22.07.2009 vide which list of empanelled firms as manufactures/suppliers of bridge bearings was issued.

2. The applications for empanelment of manufacturing firms/authorized suppliers of bearing for bridges were invited through an advertisement in this Ministry's website and leading newspaper of the country in July 2008.

3. Inspections of manufacturing units and verification of the details of various testing equipments furnished by the applicants have been carried out by this Ministry. The inspection reports and verified information was put up before a Committee constituted for empanelment of manufacturers/suppliers of bridge bearings. With the approval of this Committee empanelment of the following Manufacturers of firms/suppliers of bearings for bridges on National Highways and other roads under centrally sponsored schemes have been done. The details of number of firms are as under: -

(i)

For Elastomeric bearings- 18 firms as per the details given vide Annexure-I

- (ii) For Pot/Pot-cum-PTFE bearings- 14 firms as per the details given vide Annexure-II
- (iii) For Rocker & Roller bearings – 11 firms as per the details vide Annex-III.

4. The empanelment is subject to the following conditions, to be strictly adhered to / followed by the empanelled firms as well as the Departments/Agencies (user Agencies) procuring the bearings: -

#### 4.1 General

- 4.1.1 The empanelled firms are required to keep proper record of all documents pertaining to be procurement of raw materials, such as steel, cast/forged steel, PTFE, neoprene etc.
- 4.1.2 The empanelled firms shall promptly intimate to the Ministry of any supply made by them to any User Agency indicating type and number of the bearings, location of the bridge, whether new construction or rehabilitation/repairs of existing bridge and the name of User Agency etc.
- 4.1.3 The empanelled firms are required to have in-house capacity for designing the bearings, based on forces, movements and rotation etc. supplied by the clients.
- 4.1.4 The Engineer-in-charge of the Executive agencies: States/UT FWDs, NHAI, BRO etc. who are concerned with the acceptance of the bearings shall ensure that all the test for the materials and finished bearings (randomly selected as per prescribed procedure) are carried out in their presence through an independent reputed testing laboratory.
- 4.1.5 Strict enforcement of the codal stipulations regarding the process and acceptance control tests as per IRC-83 (Part-I & Part-II) and Ministry's specification for Road and Bridge works shall be ensured by the empanelled firms as well as the User Agencies while accepting the supply of bearings. To achieve this objective, the user agencies should ensure that the Engineer-in-charge concerned with the task of acceptance of bearings is adequately trained so as to make him fully conversant with the relevant IRC codes and specifications.

#### 4.2 Elastomeric Bearings

- 4.2.1 Neoprenet WRT, Bayprene 110, Skyprene B-5 and Denka S-40 V grade are to be used as raw elastomer for the manufacture of the elastomeric bearings and no other chloroprene should be accepted as equivalent of neoprene WRT.
- 4.2.2 The empanelled firms for elastomeric bearings shall either import chloroprene directly, or will purchase the material from an authorized agent of the foreign

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manufacturer. A proper record of the quantity of the material imported/purchased as well as the details regarding the bearings manufactured, year wise shall be maintained by the empanelled firm and on demand, the record will be made available to the user agency(ies) for inspection. **The client concerned with the acceptance of elastomeric bearings will demand the above record along with supporting documents from the empanelled firm chosen for supply, so to ensure that only imported chloroprene has been used as raw elastomer in the manufacture of the elastomeric bearings.**

- 4.2.3 It shall be clearly specified in the bid documents that the supplier of elastomeric bearings shall provide with their quotations the details of the break up of quoted rates including the prevailing price of imported raw elastomer used by them for the manufacture of elastomeric bearings, to arrive at the quoted rate of the finished bearings per cubic centimeter.
- 4.2.4 Notwithstanding the provision of clause 918.3.2 of IRC 83 ( part-II), it is hereby specified that for every lot of less than 24 bearings, an extra bearing shall be manufactured and, out of the lot, one bearing will be selected at random for carrying out material tests. This bearing shall be excluded from the accepted lot for the purpose of payment.
- 4.2.5 Polymer identification test as per clause 915.1.5 of IRC 83 (part II)- 1987 is mandatory. The manufacturer shall get the test done through a recognized laboratory having the facility of Infrared Spectrophotometry and the spectra shall be comparable to a reference sample of polychloroprene. The test shall be carried out on the core of the elastomeric bearings i.e on the material to be obtained by removing the three layers.
- 4.2.6 The periodical test for ozone resistance of the elastomer shall be got done by the supplier in accordance with clause 915.2.3 of the code IRC83 (part-II). A record of test results for the bearings (for both in house and that of outside agencies) shall be systematically maintained by the Manufacturer and it shall be produced to the accepting authority, on demand.
- 4.3 The following undertaking shall be taken from Suppliers of Elastomeric and Pot/pot-cum PTFE bearing.
- (a) " We undertake to use -----(Name of Chloroprene)----- in the manufacturing of the bearings and that the same shall be imported by us directly from -----(name of Manufacturer)----- / purchased from -----(Name of Agent)----- who is the authorized Indian agent of M/s----- (Name of the Manufacturer)-----."
- (b) "We hereby guarantee against defective materials manufactured, workmanship as well as certify quality assurance at every step of manufacturing of bearings. Elastomeric bearings that may be supplied by us as per this office and which shall be installed at the -----(Name of

Signature

the Bridge) shall have life of 15 years, under normal loading, normal traffic and routine maintenance. We also stand guarantee for free repair and replacement (including the cost of placing the new bearings in position) in part or full. If any defect is found, in the bearings or part thereof within the period 36 months from the date of supply or 24 months from the date of installation, whichever is earlier, except for defects arising out of theft, pilferage, floods, earthquake or any other natural calamity etc. over which we have no control, shall be replaced free of cost.

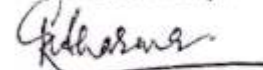
(c) "We also give an undertaking that the entire manufacturing and testing process shall be open to inspection for the client or their authorized representatives and that all possible help shall be extended in conducting the relevant tests required as per IRC: 83 (Part-II)-1987 and other instructions issued by the Ministry of Road Transport & Highways from time to time."

5. A report on the performance of bearings supplied, (particularly with reference to any adverse behavior like bulging, flattening, splitting etc. for the neoprene bearings) may be maintained and sent to the Ministry from time to time, and a consolidated yearly report to be furnished by 30th April every year.

6. This empanelment of manufacturing firms / authorized suppliers of bearings for bridges on National Highways and other centrally sponsored schemes will be valid upto 31<sup>st</sup> June 2013 or until further order of the Ministry, whichever is earlier.

7. The contents of this letter may be brought to the notice of all the officers of your Department dealing with bridge works on National Highways and other Centrally sponsored schemes.

Yours faithfully,



(Arun Kumar Sharma)  
Chief Engineer(B)S&R  
For Director General(RD) &SS  
Tel: 011-23719850

Enclosure: Annex-I,II,III

Copy to: -

1. Concerned firms
2. All Technical Officers of the Ministry
3. All ROs and ELOs
4. Secretary, IRC, New Delhi
5. Director, NITHE, Noida
6. PPS to Secretary (S,RT&H), PS to DG(RD)&SS, PS to ADG

List of firms empanelled as manufacturing firms/authorized suppliers of POT CUM PTFE bearings for Bridges on National highways and other Centrally Sponsored schemes

S.No	Name of the Firm	Address & telephone nos.
✓3.	Sneha Bearings Pvt. Ltd., Pune	Gat No. 178, Ganesh Nagar, Talawade, Pune -412 114. #020 27690748,27120914,20274017 Mob. 09823014888.
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... firms/authorized suppliers of Elastomeric

ANNEXURE-III

List of firms empanelled as manufacturing firms/authorized suppliers of Steel  
Rocker & Roller Bearings / Spherical / pin bearings for Bridges on National Highways  
and other Centrally Sponsored schemes

3.	Sneha Bearings Pvt. Ltd., Pune	Gat No. 178, Ganesh Nagar, Talawade, Pune -412 114. #020 27690748,27120914, 20274017 Mob. 09823014888.
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