

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

Dated, the 23<sup>rd</sup> June 2005

To

The Chairman, National Highways Authority of India; The Director General (Border Roads); All Chief Engineers of States/Union Territories/Public Works Department/Road Construction Department/Highway Departments (dealing with National Highways and other Centrally sponsored schemes)

**Subject : Empanelment of Manufacturers of Bearings as Suppliers for use on Bridges on National Highways and other centrally sponsored schemes.**

This Ministry vide Ministry's letter No. RW/NH-34057/1/95-S&R dated 02.11.2000 and letter No. RW/NH-34057/1/2001-S&R(B) dated 11.09.2001 and dated 19.09.2001 and dated 19.9.2001 empanelled some Manufacturers of Elastomeric bearings, Pot/Pot-cum-PTFE bearings and Rocker & Rollers bearings, as Suppliers for use on the bridges on National Highways and other roads improved under centrally sponsored schemes. The validity of the empanelment as prescribed initially was up to 31.12.2002, which was extended, in stages, up to 30.06.2005.

2. For renewal of the empanelment of the existing pre-qualified existing Firms and empanelment of new Firms of Manufacturers, as Suppliers of bridge bearings, applications were invited by this Ministry from the interested Firms through an open advertisement published in the leading newspapers in the month of June, 2002.

3. The applications and details submitted by various interested Firms have been examined in the Ministry through the Committee dealing with the Bridge bearings. Based on examination and recommendations of the Committee, various Firms of Manufacturers of bridge bearings, as Suppliers for bridges on National Highways and other roads improved under centrally sponsored schemes have been empanelled as per the following details:-

- (i) For Elastomeric bearings - 18 Firms as per the details given vide Annex-I.
- (ii) For Pot/Pot-cum-PTFE bearings - 12 Firms as per the details given vide Annex-II.
- (iii) For Rocker & Roller bearings - 10 Firms as per the details given 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 the 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 bearing, location of the bridge, whether new construction 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 the data regarding the forces, movements, rotation etc. supplied by the clients.

4.1.4 The Engineer-in-Charge of the executive agencies: States/UT PWDs, NHAI, BRO etc. who are concerned with the acceptance of the bearings shall ensure that all the tests 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 (4th Revision) shall be ensured by the pre-qualified 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 Neoprene 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 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. All the representatives of the States/Union Territory PWDs concerned with the acceptance of elastomeric bearings will demand the above record along with supporting documents from the empanelled Firm chosen for supply, so as 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 spectro photometry 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 outer layers.

4.2.6 The periodical test of ozone resistance of the elastomer shall be got gone by the Supplier in accordance with clause 915.2.3 of the code IRC:83 (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 Pot cum PTFE Bearings:

The pot being the most important component of the Pot cum PTFE bearing, the User Agency shall ensure that proper casting facilities for casting of the pot are available with the Selected Supplier in his Casting Unit. The pre-qualification of the bearing Manufacturers, as Supplier does not permit casting by associate and supplying the pot to the empanelled Firm intending to supply the bearings.

4.4 The following undertaking shall be taken from Suppliers of elastomeric and Pot/Pot-cum-PTFE bearings:

- (a) "We undertake to use \_\_\_\_\_ in the manufacturing  
(Name of chloroprene)  
of the bearings and that the same shall be imported by us directly from \_\_\_\_\_/  
purchased from \_\_\_\_\_  
Name of Manufacturer) (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 ----- (Nos.). Elastomeric bearings that may be supplied

by us as per this Office and which shall be installed at the \_\_\_\_\_  
(Name of the Bridge)

for a period of 15 years, under normal loading, normal traffic and routine maintenance. We also stand guarantee for the 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 of 36 months from the date of supply or 24 months from the date of installation, whichever is earlier, except for defects arising out theft, pilferage, floods, earthquake or any other natural calamity etc. over which we have no control”.

- (c) “We also give an undertaking that the entire manufacturing and testing process shall be open to inspection by the agents of the State/UT PWDs/NHAI or their authorized representatives and that all possible help shall be extended in conducting the relevant tests required as per IRC:83 (Par-II)-1987 and other instructions issued by the Ministry of Shipping, Road Transport and Highways from time to time.”

5. This empanelment of the Manufacturers, as Suppliers, of various types of bridge bearings will be valid up to 30<sup>th</sup> June, 2008, or until further order of the Ministry, whichever is earlier.

6. A report on the performance of bearings supplied, (particularly with reference to any adverse behaviour 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 30<sup>th</sup> April every year.

7. This circular supersedes the previous circular No. RW/NH-34057/1/2002-S&R(B) dated 28.12.2004. 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. This empanelment will be effective from 1.7.2005.

#### *Annexure-I*

##### **LIST OF FIRMS RECOMMENDED BY THE COMMITTEE FOR EMPANELMENT AS MANUFACTURER OF ELASTOMERIC BEARINGS FOR SUPPLY TO BRIDGES ON NATIONAL HIGHWAYS AND OTHER CENTRALLY SPONSORED SCHEMES**

| <b>Sl. No.</b> | <b>Name of Firm</b>                          | <b>Address of Firm</b>  |
|----------------|--|---|
| 1.             | Elastomet Bearings Pvt. Ltd.                 | 42-B, Motilal Basak Gardens, Kolkata-700054   |
| 2.             | Exjomet & Allied Products Pvt. Ltd.          | 42-B, Motilal Basak Gardens, Kolkata-700054   |
| 3.             | Atur Rubber Products                         | Atur Chambers, 2-A, Moledina Road, Pune-411001  |
| 4.             | Construction Equipment Company               | C-6 Shastri Nagar, Meerut-250005 (U.P.)   |
| 5.             | J.K. Steel & Polymer (India)                 | 506, Model Town, Yamuna Nagar-135001, Haryana   |
| 6.             | Hevea Rubber Technologies Pvt. Ltd.          | 21, Development Plot, YMA Road, Poovanthuruthu, P.O. Kottayam-686012, Kerala              |
| 7.             | The Freyssinet Prestressed Concrete Co. Ltd. | 6/6, 6 <sup>th</sup> Floor, Sterling Centre, Dr. Annie Besant Road, Worli, Mumbai-400 018 |
| 8.             | J. Sons Engineering Corpn. Ltd.              | J. Sons House, Garh Road, Meerut-250002   |
| 9.             | Steel Auto Industries                        | 506, Model Town, Yamuna Nagar-135001, Haryana   |
| 10.            | Kanta Rubber Pvt Ltd.                        | 143/144, I.D.A. Phase-V, Jeedimetla, Hyderabad-500085                                     |
| 11.            | Sanfield India Limited                       | 13-A, D-Sector, Industrial Area, Govindpura, Bhopal-462023                                |

| Sl. No. | Name of Firm   | Address of Firm   |
|---------|--|---|
| 12.     | Killick Nixon Ltd. Construction Equipment Division, Mumbai | Killick House, Killick Estate, Baji Pasalkar Marg, Chandivali, Mumbai-400 072         |
| 13.     | Saurabh Metals Pvt. Ltd. Bhopal                            | 45, Ancillary Industrial Estate, Habibganj, Bhopal-462024                             |
| 14.     | Polymer Products, Nasik                                    | 72, Mahavir Centre, Sector-17, Vashi, Navi Mumbai-400 705.                            |
| 15.     | R.S. Arora Industries, Hyderabad                           | Plot No. 61, S.V. Cooperative Industries Estate, Balangar, Hyderabad-500 037          |
| 16.     | Killick Engineering Limited, Mumbai                        | Killick Estate, Baji Pasalkar Marg, Chandivali, Mumbai-400 072                        |
| 17.     | Maruti Techno Rubber Pvt. Ltd. Noida                       | B-69, Sector-5, Noida-201301 (U.P.)   |
| 18.     | Tricon Polymers Pvt. Ltd Mumbai                            | D-11, Udyog Sadan No. II, Central Road, Opposite ESIC Hospital, MIDC, Andheri (East), |

**Annexure-II**

**LIST OF FIRMS RECOMMENDED BY THE COMMITTEE FOR EMPANELMENT AS MANUFACTURER OF POT CUM PTFE BEARINGS FOR SUPPLY TO BRIDGES ON NATIONAL HIGHWAYS AND OTHER CENTRALLY SPONSORED SCHEMES**

| Sl. No. | Name of Firm   | Address of Firm  |
|---------|--|--|
| 1.      | J.K. Steel & Polymer, Yamuna Nagar                         | 506, Model Town, Yamuna Nagar-135001, Haryana                                |
| 2.      | Steel Auto Industries, Yamuna Nagar                        | 506, Model Town, Yamuna Nagar-135001, Haryana                                |
| 3.      | Saurabh Metals Pvt. Ltd. Bhopal                            | 45, Ancillary Industrial Estate, Habibganj, Bhopal-462024                    |
| 4.      | Dynamic Prestress (I) Pvt. Ltd., Nasik                     | E-46, MIDC, Satpur, Nasik-422007   |
| 5.      | J. Sons Engineering Corpn. (India), Meerut                 | J. Sons House, Garh Road, Meerut-250002                                      |
| 6.      | Sanfield India Limited, Bhopal                             | 13-A, D-Sector, Industrial Area, Govindpura, Bhopal-462023                   |
| 7.      | Tefcon Bearing Pvt. Ltd., Pune                             | 24, Padma Darshan Society, Behind Rowat Brothers, Satara Road, Pune-411009   |
| 8.      | J. Sons Engineering Corpn. Ltd.                            | J. Sons House, Garh Road, Meerut-250002                                      |
| 9.      | Killick Nixon Ltd. Construction Equipment Division, Mumbai | Killick House, Killick Estate, Baji Pasalkar Marg, Chandivali, Mumbai-400072 |
| 10.     | Metal Engineering and Treatment Co. Pvt. Ltd. Kolkata      | 42-B, Motilal Basak Gardens, Kolkata-700 054.                                |
| 11.     | Steelmet Bridge Bearings Pvt. Ltd. Kolkata                 | 42-B, Motilal Basak Gardens, Kolkata-700 054                                 |
| 12.     | Metco group Engineers Pvt. Ltd. Kolkata                    | 42-B, Motilal Basak Gardens, Kolkata-700 054                                 |
| 13.     | BBR (India) Ltd. Bangalore                                 | 12, Palace Road, Bangalore-560 052.  |

**Annexure-III**

**LIS OF FIRMS RECOMMENDED BY THE COMMITTEE FOR EMPANELMENT AS MANUFACURER OF STEEL ROCKER & ROLLER BEARINGS FOR SUPPLY TO BRIDGES ON NATIONAL HIGHWAYS AND OTHER CENTRALLY SPONSORED SCHEMES**

| <b>Sl. No.</b> | <b>Name of Firm</b>  | <b>Address of Firm</b>  |
|----------------|--|---|
| 1.             | J.K. Heavy Engineers, Yamuna Nagar                         | 506, Model Town, Yamuna Nagar, 135001, Haryana                                |
| 2.             | Steel Auto Industries, Yamuna Nagar                        | 506, Model Town, Yamuna Nagar, 135001, Haryana                                |
| 3.             | Saurabh Metals Pvt. Ltd. Bhopal                            | 45, Ancillary Industrial Estate, Habibganj, Bhopal-462024                     |
| 4.             | Dynamic Prestress (I) Pvt. Ltd. Nasik                      | E-46, MIDC, Satpur, Nasik-422007  |
| 5.             | J. Sons Engineering Corpn. (India), Meerut                 | J. Sons House, Garh Road, Meerut-250002                                       |
| 6.             | J. Sons Engineering Corpn. Ltd., Meerut                    | J. Sons House, Garh Road, Meerut-250002                                       |
| 7.             | Killick Nixon Ltd. Construction Equipment Division, Mumbai | Killick House, Killick Estate, Baji Pasalkar Marg, Chandirali, Mumbai-400 072 |
| 8.             | Metal Engineering and Treatment Co. Pvt. Ltd., Kolkata     | 42-B, Motilal Basak Gardens, Kolkata-700 054                                  |
| 9.             | Steelmet Bridge Bearings Pvt. Ltd., Kolkata                | 42-B, Motilal Basak Gardens, Kolkata-700 054                                  |
| 10.            | Metco Group Engineers Pvt. Ltd., Kolkata                   | 42-B, Motilal Basak Gardens, Kolkata-700 054                                  |